

What Are Batteries, Fuel Cells, and Supercapacitors?

Chemical Reviews

104, 4245-4270

DOI: 10.1021/cr020730k

Citation Report

#	ARTICLE	IF	CITATIONS
1	Chapter 5 Adsorption of Anions by Soil. <i>Developments in Soil Science</i> , 1976, , 91-95.	0.5	4
2	Dynamics of Molecular Crystals. <i>Advances in Quantum Chemistry</i> , 1986, 18, 131-206.	0.4	41
3	20 Nonparametric methods for changepoint problems. <i>Handbook of Statistics</i> , 1988, , 403-425.	0.4	57
4	Distribution of Central Corneal Thickness and Its Association With Intraocular Pressure: The Rotterdam Study. <i>American Journal of Ophthalmology</i> , 1997, 123, 767-772.	1.7	378
5	Prefrontal Cortical and Hippocampal Modulation of Dopamine-Mediated Effects. <i>Advances in Pharmacology</i> , 1997, 42, 806-809.	1.2	13
6	Thermophilic esterases and the amino acid "traffic rule" in the hormone sensitive lipase subfamily. <i>Progress in Biotechnology</i> , 1998, 15, 325-330.	0.2	4
7	NON-SURGICAL POCKET THERAPY: MECHANICAL SURGICAL POCKET THERAPY. <i>Journal of the American Dental Association</i> , 1998, 129, 40-S-42-S.	0.7	1
8	Preparation and characterisation of Cu/ZnO and Pd/ZnO catalysts for partial oxidation of methanol. Control of catalyst surface area and particle size using microemulsion technique. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 1073-1078.	1.5	6
9	Modeling the sediment concentration profiles at the Amazon Shelf. <i>Proceedings in Marine Science</i> , 2002, 5, 687-702.	0.1	2
10	Coupled modeling of partially saturated flow: macro-porous media, interfaces, variability. <i>Developments in Water Science</i> , 2002, 47, 49-56.	0.1	7
11	Electron holography of long-range electrostatic fields. <i>Advances in Imaging and Electron Physics</i> , 2002, , 173-249.	0.1	21
13	Multivariate weighted least squares as an alternative to the determinant criterion for multiresponse parameter estimation. <i>Computer Aided Chemical Engineering</i> , 2003, 16, 63-84.	0.3	4
14	Gas in Cohesive Sediments. <i>Developments in Sedimentology</i> , 2004, , 397-427.	0.5	10
16	What Are Batteries, Fuel Cells, and Supercapacitors?. <i>ChemInform</i> , 2004, 35, no.	0.1	24
17	Tungsten Carbide Microspheres as a Noble-Metal-Economic Electrocatalyst for Methanol Oxidation. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6557-6560.	7.2	257
19	High-Power Alkaline Zn-MnO ₂ Batteries Using ¹³ MnO ₂ Nanowires/Nanotubes and Electrolytic Zinc Powder. <i>Advanced Materials</i> , 2005, 17, 2753-2756.	11.1	295
20	A passive micro gas regulator for hydrogen flow control. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, S202-S209.	1.5	14
21	Synthesis, Characterization, and Electrochemical Application of Ca(OH) ₂ , Co(OH) ₂ , and Y(OH) ₃ -Coated Ni(OH) ₂ Tubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14025-14032.	1.2	75

#	ARTICLE	IF	CITATIONS
22	Wireless Sensors Powered by Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2005, 39, 5037-5042.	4.6	290
23	Layered Hydrogen Titanate Nanowires with Novel Lithium Intercalation Properties. <i>Chemistry of Materials</i> , 2005, 17, 5848-5855.	3.2	132
24	Controllable Pt Nanoparticle Deposition on Carbon Nanotubes as an Anode Catalyst for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22212-22216.	1.2	454
25	Effect of Pore Packing Defects in 2-D Ordered Mesoporous Carbons on Ionic Transport. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8570-8575.	1.2	144
26	Facile Controlled Synthesis of MnO ₂ Nanostructures of Novel Shapes and Their Application in Batteries. <i>Inorganic Chemistry</i> , 2006, 45, 2038-2044.	1.9	473
27	Synthesis, Characterization, and Electrochemical Properties of Ag ₂ V ₄ O ₁₁ and AgVO ₃ ·D Nano/Microstructures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 24855-24863.	1.2	132
28	Hybrid Polyelectrolyte Materials for Fuel Cell Applications: Design, Synthesis, and Evaluation of Proton-Conducting Bridged Polysilsesquioxanes. <i>Chemistry of Materials</i> , 2006, 18, 3665-3673.	3.2	50
29	Storage of hydrogen and lithium in inorganic nanotubes and nanowires. <i>Journal of Materials Research</i> , 2006, 21, 2744-2757.	1.2	71
30	Chemical synthesis of hybrid materials based on PANi and PEDOT with polyoxometalates for electrochemical supercapacitors. <i>Progress in Solid State Chemistry</i> , 2006, 34, 147-159.	3.9	110
32	Coastal microbial fuel cell: scaling laws and systems. , 2006, , .		1
33	Mesoporous Carbon Materials as Electrodes for Electrochemical Double-Layer Capacitor. <i>Materials Research Society Symposia Proceedings</i> , 2006, 973, 1.	0.1	2
34	Synthesis and Characterization of Sulfonated- Fluorinated, Hydrophilic-Hydrophobic Multiblock Copolymers for Proton Exchange Membranes. <i>Macromolecular Symposia</i> , 2006, 245-246, 439-449.	0.4	47
35	Influence of chemical composition and sequence length on the transport properties of proton exchange membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 2226-2239.	2.4	155
36	Low temperature solid-state synthesis routine and mechanism for Li ₃ V ₂ (PO ₄) ₃ using LiF as lithium precursor. <i>Electrochimica Acta</i> , 2006, 52, 1003-1008.	2.6	81
37	Superior electric double layer capacitors using ordered mesoporous carbons. <i>Carbon</i> , 2006, 44, 216-224.	5.4	690
38	New nanomaterials for light weight lithium batteries. <i>Analytica Chimica Acta</i> , 2006, 568, 57-64.	2.6	52
39	Recent developments on ion-exchange membranes and electro-membrane processes. <i>Advances in Colloid and Interface Science</i> , 2006, 119, 97-130.	7.0	621
40	Pseudocapacitive characteristic of lithium ion storage in hydrogen titanate nanotubes. <i>Chemical Physics Letters</i> , 2006, 418, 506-510.	1.2	66

#	ARTICLE	IF	CITATIONS
41	Double-layer capacitors composed of interconnected silver particles and with a high-frequency response. <i>Electrochimica Acta</i> , 2006, 51, 1172-1177.	2.6	25
42	Decreased CO production in methanol steam reforming over Cu/ZrO ₂ catalysts prepared by the microemulsion technique. <i>Applied Catalysis A: General</i> , 2006, 302, 215-223.	2.2	94
43	An electrocatalyst for methanol oxidation based on tungsten trioxide microspheres and platinum. <i>Journal of Power Sources</i> , 2006, 157, 217-221.	4.0	112
44	TiO ₂ (B)/activated carbon non-aqueous hybrid system for energy storage. <i>Journal of Power Sources</i> , 2006, 158, 571-577.	4.0	133
45	Electrodeposition synthesis and electrochemical properties of nanostructured γ -MnO ₂ films. <i>Journal of Power Sources</i> , 2006, 162, 727-734.	4.0	253
46	Synthesis of Li ₃ V ₂ (PO ₄) ₃ with high performance by optimized solid-state synthesis routine. <i>Journal of Power Sources</i> , 2006, 162, 651-657.	4.0	155
47	Evolving microstructure in MnO ₂ using amorphisation and recrystallisation. <i>Journal of Crystal Growth</i> , 2006, 294, 118-129.	0.7	13
48	Electrochemical characterization on layered lithium ruthenate for electrochemical supercapacitors. <i>Solid State Ionics</i> , 2006, 177, 1335-1339.	1.3	13
49	Vapor-Transportation Preparation and Reversible Lithium Intercalation/Deintercalation of β -MoO ₃ Microrods. <i>Journal of Physical Chemistry B</i> , 2006, 110, 119-124.	1.2	206
50	Synthesis of novel ordered carbon nanorods and its application in electrochemical double layer capacitor. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 425-433.	0.9	3
51	PEM fuel cells: status and challenges for commercial stationary power applications. <i>Jom</i> , 2006, 58, 45-49.	0.9	31
52	Organic Reaction Pathways in the Nonaqueous Synthesis of Metal Oxide Nanoparticles. <i>Chemistry - A European Journal</i> , 2006, 12, 7282-7302.	1.7	439
53	Metallic Magnesium Nano/Mesoscale Structures: Their Shape-Controlled Preparation and Mg/Air Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6009-6012.	7.2	152
54	Redox Targeting of Insulating Electrode Materials: A New Approach to High-Energy-Density Batteries. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8197-8200.	7.2	71
55	Development of Hybrid Polymer Electrolyte Membranes Based on the Semi-Interpenetrating Network Concept. <i>Fuel Cells</i> , 2006, 6, 225-236.	1.5	24
58	A micro-machined safety valve for power applications with improved sealing. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, S240-S247.	1.5	6
59	Rapid Screening of Bimetallic Electrocatalysts for Oxygen Reduction in Acidic Media by Scanning Electrochemical Microscopy. <i>Journal of the Electrochemical Society</i> , 2006, 153, E99.	1.3	58
60	4 Growth of Hyperthermophilic Microorganisms for Physiological and Nutritional Studies. <i>Methods in Microbiology</i> , 2006, 35, 93-108.	0.4	3

#	ARTICLE	IF	CITATIONS
61	Chapter 8 Choice under Social Influence: Effects of Learning Behaviours on the Collective Dynamics. Contributions To Economic Analysis, 2006, 280, 177-203.	0.1	6
62	A Co ²⁺ /Al Layered Double Hydroxides Nanosheets Thin-Film Electrode. Electrochemical and Solid-State Letters, 2007, 10, A233.	2.2	37
63	A low melting point alloy as a functional material for a one-shot micro-valve. Journal of Micromechanics and Microengineering, 2007, 17, 1442-1450.	1.5	13
64	Chapter 3 Ultrasound-assisted sample digestion. Techniques and Instrumentation in Analytical Chemistry, 2007, 26, 69-97.	0.0	1
65	γ-MnO ₂ nanodisks and their magnetic properties. Nanotechnology, 2007, 18, 475605.	1.3	29
66	Directly Copolymerized Poly(arylene sulfide sulfone) and Poly(arylene ether sulfone) Disulfonated Copolymers for Use in Ionic Polymer Transducers. Journal of the Electrochemical Society, 2007, 154, P77.	1.3	21
67	An autonomous CO ₂ discharge and electrolyte agitation scheme for portable microbial fuel cells. Journal of Micromechanics and Microengineering, 2007, 17, S265-S273.	1.5	3
68	Electrochemical Energy Generation and Storage. Fuel Cells and Lithium-Ion Batteries. Bulletin of the Chemical Society of Japan, 2007, 80, 1843-1855.	2.0	15
69	Zukunftsfeld Festkörperelektrochemie. Nachrichten Aus Der Chemie, 2007, 55, 27-32.	0.0	1
70	Role of Proton-Coupled Electron Transfer in O ₂ Bond Activation. Accounts of Chemical Research, 2007, 40, 543-553.	7.6	353
71	Polymer-Assisted Synthesis of Manganese Dioxide/Carbon Nanotube Nanocomposite with Excellent Electrocatalytic Activity toward Reduction of Oxygen. Journal of Physical Chemistry C, 2007, 111, 1882-1887.	1.5	167
72	Study of VDF/TrFE/CTFE Terpolymers for High Pulsed Capacitor with High Energy Density and Low Energy Loss. Macromolecules, 2007, 40, 783-785.	2.2	121
73	Metallic Aluminum Nanorods: Synthesis via Vapor-Deposition and Applications in Al/air Batteries. Chemistry of Materials, 2007, 19, 5812-5814.	3.2	64
74	An Investigation of Structure-Catalytic Activity Relationship for Pt-Co/C Bimetallic Nanoparticles toward the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2007, 111, 15267-15276.	1.5	100
75	Nonaqueous Sol-Gel Routes to Nanocrystalline Metal Oxides. , 0, , 119-137.		11
76	Multi-scale structural description of siloxane-PPO hybrid ionic conductors doped by sodium salts. Journal of Materials Chemistry, 2007, 17, 744-757.	6.7	42
77	New Nanostructured Electrode Material for Electrochemical Supercapacitors. , 2007, , .		1
78	Hydrogen energy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 1043-1056.	1.6	246

#	ARTICLE	IF	CITATIONS
79	Synthesis of Poly(4-methacryloyloxy-TEMPO) via Group-Transfer Polymerization and Its Evaluation in Organic Radical Battery. <i>Chemistry of Materials</i> , 2007, 19, 2910-2914.	3.2	151
80	Enhancement of Conductivity by Diameter Control of Polyimide-Based Electrospun Carbon Nanofibers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11350-11353.	1.2	81
81	Reversible Electronic Charge Transfer between Au Nanoparticles and Electrochromic NiO Matrices upon Electrochemical Cycling. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16608-16612.	1.5	15
82	Carbon Nanofibers "Spot-Welded" to Carbon Paper by Carbothermal Reduction: A Nano/Micron-Scale Hierarchical Architecture having Low Contact Resistance. <i>Chemistry of Materials</i> , 2007, 19, 6001-6006.	3.2	8
83	Effect of Doping Ions on Electrochemical Capacitance Properties of Polypyrrole Films. <i>Acta Physico-chimica Sinica</i> , 2007, 23, 299-304.	0.6	29
84	Cathode- and Anode-Active Poly(nitroxylstyrene)s for Rechargeable Batteries: A p- and n-Type Redox Switching via Substituent Effects. <i>Macromolecules</i> , 2007, 40, 3167-3173.	2.2	148
85	Self-Assembly of Novel Mesoporous Manganese Oxide Nanostructures and Their Application in Oxidative Decomposition of Formaldehyde. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18033-18038.	1.5	248
86	In Situ One-Step Method for Preparing Carbon Nanotubes and Pt Composite Catalysts and Their Performance for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11174-11179.	1.5	127
87	New Synthetic Route, Characterization, and Electrocatalytic Activity of Nanosized Manganite. <i>Chemistry of Materials</i> , 2007, 19, 1832-1839.	3.2	90
88	Hydrogen Production by Molecular Photocatalysis. <i>Chemical Reviews</i> , 2007, 107, 4022-4047.	23.0	1,325
89	The Structure-Property Relationship of Poly(vinylidene difluoride)-Based Polymers with Energy Storage and Loss under Applied Electric Fields. <i>Macromolecules</i> , 2007, 40, 9391-9397.	2.2	115
90	Studies on the vapour-transport synthesis and electrochemical properties of zinc micro-, meso- and nanoscale structures. <i>Journal of Materials Chemistry</i> , 2007, 17, 684-691.	6.7	20
91	Nanoporous Pt/WC as an Anode for Direct Methanol Fuel Cells. <i>Studies in Surface Science and Catalysis</i> , 2007, , 61-66.	1.5	1
92	In Situ Growth of Mesoporous SnO ₂ on Multiwalled Carbon Nanotubes: A Novel Composite with Porous Tube Structure as Anode for Lithium Batteries. <i>Advanced Functional Materials</i> , 2007, 17, 2772-2778.	7.8	470
93	Aqueous Lithium-Ion Battery LiTi ₂ (PO ₄) ₃ /LiMn ₂ O ₄ with High Power and Energy Densities as well as Superior Cycling Stability**. <i>Advanced Functional Materials</i> , 2007, 17, 3877-3884.	7.8	369
94	Probing Proton Mobility in Polyvinazene and its Sulfonated Derivatives Using ¹ H Solid-State NMR. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2076-2084.	1.1	9
95	Hydrothermal synthesis of -MnOOH nanowires and - MnO ₂ sea urchin-like clusters. <i>Solid State Communications</i> , 2007, 141, 427-430.	0.9	26
96	Synthesis of PtRu/carbon nanotube composites in supercritical fluid and their application as an electrocatalyst for direct methanol fuel cells. <i>Carbon</i> , 2007, 45, 536-542.	5.4	58

#	ARTICLE	IF	CITATIONS
97	Nitrogen-containing carbon spheres with very large uniform mesopores: The superior electrode materials for EDLC in organic electrolyte. <i>Carbon</i> , 2007, 45, 1757-1763.	5.4	330
98	Easy preparation of nitrogen-enriched carbon materials from peptides of silk fibroins and their use to produce a high volumetric energy density in supercapacitors. <i>Carbon</i> , 2007, 45, 2116-2125.	5.4	220
99	Nitrogen enriched mesoporous carbon spheres obtained by a facile method and its application for electrochemical capacitor. <i>Electrochemistry Communications</i> , 2007, 9, 569-573.	2.3	255
100	Composite of Pt/Ru supported SnO ₂ nanowires grown on carbon paper for electrocatalytic oxidation of methanol. <i>Electrochemistry Communications</i> , 2007, 9, 2229-2234.	2.3	70
101	Platinized mesoporous tungsten carbide for electrochemical methanol oxidation. <i>Electrochemistry Communications</i> , 2007, 9, 2576-2579.	2.3	122
102	Electrochemical supercapacitor application of perovskite thin films. <i>Electrochemistry Communications</i> , 2007, 9, 1805-1809.	2.3	112
103	Structure and electrochemical properties of nanocarbon-coated Li ₃ V ₂ (PO ₄) ₃ prepared by sol-gel method. <i>Electrochimica Acta</i> , 2007, 52, 5281-5285.	2.6	64
104	Synthesis and characterization of partially fluorinated hydrophobic/hydrophilic multiblock copolymers containing sulfonate groups for proton exchange membrane. <i>Journal of Power Sources</i> , 2007, 172, 30-38.	4.0	84
105	Long-term cycling behavior of asymmetric activated carbon/MnO ₂ aqueous electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2007, 173, 633-641.	4.0	453
106	Novel composite electrolyte membranes consisting of fluorohydrogenate ionic liquid and polymers for the unhumidified intermediate temperature fuel cell. <i>Journal of Power Sources</i> , 2007, 171, 535-539.	4.0	62
107	Super-capacitors fuel-cell hybrid electric vehicle optimization and control strategy development. <i>Energy Conversion and Management</i> , 2007, 48, 3001-3008.	4.4	175
108	N-shaped nonlinearity of charge characteristics of ionistor structures based on RbAg ₄ I ₅ . <i>Russian Journal of Electrochemistry</i> , 2007, 43, 576-579.	0.3	1
109	Electrochemical determination of activation energies for methanol oxidation on polycrystalline platinum in acidic and alkaline electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 49-77.	1.3	226
110	Characteristics of the carbon nanotubes supported Pt-Ni and Ni electrocatalysts for DMFC. <i>Metals and Materials International</i> , 2007, 13, 257-260.	1.8	11
111	Catalytical activity of carbon nanotubes (CNTs) and Vulcan XC-72 (VCB) carbon supported Ni catalysts for direct methanol fuel cells. <i>Metals and Materials International</i> , 2007, 13, 417-420.	1.8	3
112	From bio-mineralisation to fuel cells: biomanufacture of Pt and Pd nanocrystals for fuel cell electrode catalyst. <i>Biotechnology Letters</i> , 2007, 29, 539-544.	1.1	49
113	Ru oxide supercapacitors with high loadings and high power and energy densities. <i>Journal of Power Sources</i> , 2008, 176, 410-416.	4.0	87
114	Layer-by-layer self-assembly of manganese oxide nanosheets/polyethylenimine multilayer films as electrodes for supercapacitors. <i>Journal of Power Sources</i> , 2008, 184, 695-700.	4.0	45

#	ARTICLE	IF	CITATIONS
115	Recent advances in direct formic acid fuel cells (DFAFC). Journal of Power Sources, 2008, 182, 124-132.	4.0	1,006
116	Inorganic-organic hybrid polymers with pendent sulfonated cyclic phosphazene side groups as potential proton conductive materials for direct methanol fuel cells. Journal of Membrane Science, 2008, 320, 206-214.	4.1	41
117	The influence of carbon source on the wall structure of ordered mesoporous carbons. Journal of Porous Materials, 2008, 15, 601-611.	1.3	54
118	Electrochemical capacitance of the composite of poly (3,4-ethylenedioxythiophene) and functionalized single-walled carbon nanotubes. Journal of Solid State Electrochemistry, 2008, 12, 947-952.	1.2	28
119	Ionomers for proton exchange membrane fuel cells with sulfonic acid groups on the end-groups: Novel branched poly(ether-etherone)s with 3,6-ditriptyl-carbazole end-groups. Journal of Polymer Science Part A, 2008, 46, 3860-3868.	2.5	61
120	Fabrication of a Practical and Polymer-Rich Organic Radical Polymer Electrode and its Rate Dependence. Macromolecular Rapid Communications, 2008, 29, 1635-1639.	2.0	57
121	A Universal Model for Nanoporous Carbon Supercapacitors Applicable to Diverse Pore Regimes, Carbon Materials, and Electrolytes. Chemistry - A European Journal, 2008, 14, 6614-6626.	1.7	545
122	Irradiation-induced grafting of polyacrylamide onto the sulphonated poly(2,6-dimethyl-1,4-phenylene) Tj ETQq1 1 0.784314 rg BT Polymer Science, 2008, 109, 1447-1453.	1.3	12
123	Theoretical Model for Nanoporous Carbon Supercapacitors. Angewandte Chemie - International Edition, 2008, 47, 520-524.	7.2	526
124	Aligned Titania Nanotubes as an Intercalation Anode Material for Hybrid Electrochemical Energy Storage. Advanced Functional Materials, 2008, 18, 3787-3793.	7.8	97
125	Developments in Nanostructured Cathode Materials for High-Performance Lithium-Ion Batteries. Advanced Materials, 2008, 20, 2251-2269.	11.1	1,050
128	A polyoxometalate-deposited Pt/CNT electrocatalyst via chemical synthesis for methanol electrooxidation. Journal of Power Sources, 2008, 179, 81-86.	4.0	81
129	Electrochemical capacitor performance of N-doped mesoporous carbons prepared by ammoxidation. Journal of Power Sources, 2008, 180, 671-675.	4.0	182
130	Fabrication and electrochemical characterization of cobalt-based layered double hydroxide nanosheet thin-film electrodes. Journal of Power Sources, 2008, 184, 682-690.	4.0	85
131	PMMA-assisted synthesis of $\text{Li}_1\text{xNi}_0.5\text{Mn}_{1.5}\text{O}_4$ for high-voltage lithium batteries with expanded rate capability at high cycling temperatures. Journal of Power Sources, 2008, 180, 852-858.	4.0	41
132	Anthraquinone modified carbon fabric supercapacitors with improved energy and power densities. Journal of Power Sources, 2008, 181, 182-185.	4.0	127
133	Electrochemical deposition of porous Co_3O_4 nanostructured thin film for lithium-ion battery. Journal of Power Sources, 2008, 182, 359-364.	4.0	118
134	Modeling and simulation of a single direct carbon fuel cell. Journal of Power Sources, 2008, 185, 1022-1029.	4.0	64

#	ARTICLE	IF	CITATIONS
135	Hydrothermal synthesis of size-dependent Pt in Pt/MWCNTs nanocomposites for methanol electro-oxidation. <i>Electrochimica Acta</i> , 2008, 53, 4316-4323.	2.6	31
136	Phenomenologically modeling the formation and evolution of the solid electrolyte interface on the graphite electrode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2008, 53, 7069-7078.	2.6	78
137	Citric acid cycle biomimic on a carbon electrode. <i>Biosensors and Bioelectronics</i> , 2008, 24, 939-944.	5.3	142
138	Synthesis of monolithic 3D ordered macroporous carbon/nano-silicon composites by diodosilane decomposition. <i>Carbon</i> , 2008, 46, 1702-1710.	5.4	35
139	Hierarchical porous carbons with controlled micropores and mesopores for supercapacitor electrode materials. <i>Carbon</i> , 2008, 46, 1718-1726.	5.4	575
140	Chemical and electrochemical ageing of carbon materials used in supercapacitor electrodes. <i>Carbon</i> , 2008, 46, 1829-1840.	5.4	178
141	Design, synthesis and photo-cross-linking of a new photosensitive macromonomer from tetra-branched poly(ethylene oxide)s. <i>European Polymer Journal</i> , 2008, 44, 4092-4097.	2.6	7
142	Pt/WC as an anode catalyst for PEMFC: Activity and CO tolerance. <i>Catalysis Today</i> , 2008, 132, 117-122.	2.2	92
143	The superior electrochemical performance of oxygen-rich activated carbons prepared from bituminous coal. <i>Electrochemistry Communications</i> , 2008, 10, 1809-1811.	2.3	110
144	Anodic deposition of hydrous ruthenium oxide for supercapacitors: Effects of the AcO^{\sim} concentration, plating temperature, and oxide loading. <i>Electrochimica Acta</i> , 2008, 53, 2679-2687.	2.6	22
145	Preparation and characterization of $\text{LiAlO}_2.23\text{Mn}1.77\text{O}_4$ for supercapacitor electrodes. <i>Materials Chemistry and Physics</i> , 2008, 110, 486-489.	2.0	4
146	Microwave-assisted green synthesis of MnO_2 nanoplates with environmental catalytic activity. <i>Materials Chemistry and Physics</i> , 2008, 111, 162-167.	2.0	81
147	A new asymmetric supercapacitor based on MnO_2 and activated carbon electrodes. <i>Materials Letters</i> , 2008, 62, 3884-3886.	1.3	77
148	Investigation of Localized Catalytic and Electrocatalytic Processes and Corrosion Reactions with Scanning Electrochemical Microscopy (SECM). <i>Zeitschrift Fur Physikalische Chemie</i> , 2008, 222, 1463-1517.	1.4	57
149	Intrinsic and Extrinsic Defects in Insulators: Ionic Conductivity. , 0, , 251-295.		0
150	MnO_2 /Poly(3,4-ethylenedioxythiophene) Coaxial Nanowires by One-Step Coelectrodeposition for Electrochemical Energy Storage. <i>Journal of the American Chemical Society</i> , 2008, 130, 2942-2943.	6.6	656
151	Facile approach to prepare loose-packed NiO nano-flakes materials for supercapacitors. <i>Chemical Communications</i> , 2008, , 4213.	2.2	380
152	Platinum/Mesoporous WO_3 as a Carbon-Free Electrocatalyst with Enhanced Electrochemical Activity for Methanol Oxidation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12024-12031.	1.2	114

#	ARTICLE	IF	CITATIONS
153	Nanoscale Building Blocks for the Development of Novel Proton Exchange Membrane Fuel Cells. Journal of Physical Chemistry B, 2008, 112, 3283-3286.	1.2	37
154	Performance and low temperature behaviour of hydrous ruthenium oxide supercapacitors with improved power densities. Energy and Environmental Science, 2008, , .	15.6	8
155	High Rates of Oxygen Reduction over a Vapor Phaseâ€“Polymerized PEDOT Electrode. Science, 2008, 321, 671-674.	6.0	493
156	Physical electrochemistry of nanostructured devices. Physical Chemistry Chemical Physics, 2008, 10, 49-72.	1.3	210
157	Batteries and electrochemical capacitors. Physics Today, 2008, 61, 43-47.	0.3	187
158	Probing proton dissociation in ionic polymers by means of in situ ATR-FTIR spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 1577.	1.3	33
159	Nanostructured electrode materials for electrochemical energy storage and conversion. Energy and Environmental Science, 2008, 1, 621.	15.6	548
160	Electrospun nanofibers in energy and environmental applications. Energy and Environmental Science, 2008, 1, 205.	15.6	846
161	Morphology of Template-Grown Polyaniline Nanowires and Its Effect on the Electrochemical Capacitance of Nanowire Arrays. Chemistry of Materials, 2008, 20, 5260-5265.	3.2	175
162	$\hat{I}\pm$ -CuV ₂ O ₆ Nanowires: Hydrothermal Synthesis and Primary Lithium Battery Application. Journal of the American Chemical Society, 2008, 130, 5361-5367.	6.6	281
163	Mesopore-Aspect-Ratio Dependence of Ion Transport in Rodtype Ordered Mesoporous Carbon. Journal of Physical Chemistry C, 2008, 112, 9950-9955.	1.5	98
164	High Carrier Density and Capacitance in TiO ₂ Nanotube Arrays Induced by Electrochemical Doping. Journal of the American Chemical Society, 2008, 130, 11312-11316.	6.6	368
165	Quaternary Ammonium Room-Temperature Ionic Liquid/Lithium Salt Binary Electrolytes: Electrochemical Study. Journal of the Electrochemical Society, 2008, 155, A421.	1.3	96
166	Electrodeposited nickel hydroxide on nickel foam with ultrahigh capacitance. Chemical Communications, 2008, , 6537.	2.2	533
167	Organicâ€“inorganic hybrid materials based on polyaniline/TiO ₂ nanocomposites for ascorbic acid fuel cell systems. Nanotechnology, 2008, 19, 435709.	1.3	58
168	Fast Electrochemistry of Conductive Polymer Nanotubes: Synthesis, Mechanism, and Application. Accounts of Chemical Research, 2008, 41, 699-707.	7.6	389
169	The Structure and Proton Transport Mechanisms in the Superprotonic Phase of CsH ₂ PO ₄ : An <i>Ab Initio</i> Molecular Dynamics Study. Journal of Physical Chemistry C, 2008, 112, 9917-9930.	1.5	42
170	High dispersion of \hat{I}^3 -MnO ₂ on well-aligned carbon nanotube arrays and its application in supercapacitors. Diamond and Related Materials, 2008, 17, 1943-1948.	1.8	58

#	ARTICLE	IF	CITATIONS
171	Hydrogen nexus in a sustainable energy future. <i>Energy and Environmental Science</i> , 2008, 1, 79.	15.6	269
172	Cobalt Hydroxide as a Capacitor Material: Tuning Its Potential Window. <i>Journal of the Electrochemical Society</i> , 2008, 155, A855.	1.3	37
173	Poly(3,4-ethylenedioxythiophene) nanotubes as electrode materials for a high-powered supercapacitor. <i>Nanotechnology</i> , 2008, 19, 215710.	1.3	196
174	Synthesis and Characterization of Nanostructured Pd~Mo Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12037-12043.	1.5	85
175	Direct spectroscopic observation of size-dependent vacancy distribution in Y-doped CeO ₂ . <i>Journal of Materials Chemistry</i> , 2008, 18, 3915.	6.7	26
176	One-Pot Synthesis of Highly Crystallined MnO ₂ Nanodisks Assembled from Nanoparticles: Morphology Evolutions and Phase Transitions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 365-369.	1.5	49
177	Morphology-Dependent Electrochemical Supercapacitor Properties of Indium Oxide. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, A9.	2.2	40
178	Ionomers for Proton Exchange Membrane Fuel Cells with Sulfonic Acid Groups on the End Groups: Novel Branched Poly(ether~ketone)s. <i>Macromolecules</i> , 2008, 41, 281-284.	2.2	148
179	Morphological Control of Hydrothermal Ni(OH) ₂ in the Presence of Polymers and Surfactants: Nanocrystals, Mesocrystals, and Superstructures. <i>Crystal Growth and Design</i> , 2008, 8, 3847-3855.	1.4	34
180	Methanol Electrochemical Oxidation on Au/Pt Electrode Enhanced by Phosphomolybdic Acid. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18672-18676.	1.5	19
181	Gelatin Hydrogel Electrolytes and Their Application to Electrochemical Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2008, 155, A74.	1.3	60
182	Ionomers for Proton Exchange Membrane Fuel Cells with Sulfonic Acid Groups on the End Groups: Novel Linear Aromatic Poly(sulfide~ketone)s. <i>Macromolecules</i> , 2008, 41, 277-280.	2.2	93
183	Modeling and control of hybrid power-train systems with a PEM fuel cell and supercapacitor. , 2009, , .		0
184	Synthesis of Polypyrrole-Intercalated Layered Manganese Oxide Nanocomposite by a Delamination~Reassembling Method and Its Electrochemical Capacitance Performance. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, A95.	2.2	37
185	Novel Ternary System Based Proton Conducting Polymer Electrolytes Based on Fluorinated Copolymer. <i>ECS Transactions</i> , 2009, 19, 71-87.	0.3	1
186	Fabrication, Physical and Electrochemical Investigation of Microporous Carbon Polyiodide Nanocomposites. <i>Journal of the Electrochemical Society</i> , 2009, 156, A873.	1.3	10
187	Effect of Ethylene Oxide Structures in TEMPO Polymers on High Rate Discharge Properties. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, A194.	2.2	11
188	Layer-By-Layer assembled thin films of inorganic nanomaterials: fabrication and photo-electrochemical properties. <i>International Journal of Surface Science and Engineering</i> , 2009, 3, 44.	0.4	10

#	ARTICLE	IF	CITATIONS
189	Thermal modification of the rigidity of micro-structures by the phase transition of a fusible alloy. <i>Journal of Micromechanics and Microengineering</i> , 2009, 19, 055014.	1.5	0
190	Comprehensive Two dimensional gas chromatography. <i>Comprehensive Analytical Chemistry</i> , 2009, , v.	0.7	1
191	A New Way to Manufacture a Carbon Nanotubes Supercapacitor. <i>Advanced Materials Research</i> , 2009, 79-82, 47-50.	0.3	0
192	Capacitive performances of amorphous tungsten oxide prepared by microwave irradiation. <i>Scripta Materialia</i> , 2009, 61, 985-987.	2.6	49
193	Preparation Ru, Bi monolayer modified Pt nanoparticles as the anode catalyst for methanol oxidation. <i>Materials Chemistry and Physics</i> , 2009, 113, 927-932.	2.0	29
194	Preparation of Pt/multiwalled carbon nanotubes modified Au electrodes via Pt/Cu co-electrodeposition/Cu stripping protocol for high-performance electrocatalytic oxidation of methanol. <i>Materials Chemistry and Physics</i> , 2009, 118, 371-378.	2.0	12
195	3D ordered NiO/silicon MCP array electrode materials for electrochemical supercapacitors. <i>Materials Research Bulletin</i> , 2009, 44, 1920-1925.	2.7	22
196	Size Effects in Electrocatalysis of Fuel Cell Reactions on Supported Metal Nanoparticles. , 0, , 507-566.		19
197	Personalized Energy: The Home as a Solar Power Station and Solar Gas Station. <i>ChemSusChem</i> , 2009, 2, 387-390.	3.6	108
198	Syntheses and Electrochemical Properties of TEMPO Radical Substituted Silicones: Active Material for Organic Radical Batteries. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 1402-1407.	1.1	42
199	Laser-induced phase changes in olivine FePO ₄ : a warning on characterizing LiFePO ₄ -based cathodes with Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 225-228.	1.2	43
200	A facile approach to the preparation of loose-packed Ni(OH) ₂ nanoflake materials for electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 333-340.	1.2	163
201	Soft matter lithium salt electrolytes: ion conduction and application to rechargeable batteries. <i>Monatshefte für Chemie</i> , 2009, 140, 1001-1010.	0.9	18
202	An asymmetric anthraquinone-modified carbon/ruthenium oxide supercapacitor. <i>Journal of Power Sources</i> , 2009, 187, 640-643.	4.0	145
203	A facile method to synthesize well-dispersed PtRuMoOx and PtRuWOx nanoparticles and their electrocatalytic activities for methanol oxidation. <i>Journal of Power Sources</i> , 2009, 192, 285-290.	4.0	25
204	Facile approach to prepare loose-packed cobalt hydroxide nano-flakes materials for electrochemical capacitors. <i>Journal of Power Sources</i> , 2009, 194, 1194-1201.	4.0	218
205	Silicone based alkaline electrolyte membrane for fuel cell. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 161, 138-141.	1.7	6
206	Mesoporous RuO ₂ for the next generation supercapacitors with an ultrahigh power density. <i>Electrochimica Acta</i> , 2009, 54, 4574-4581.	2.6	106

#	ARTICLE	IF	CITATIONS
207	A facile route to carbon-coated SnO ₂ nanoparticles combined with a new binder for enhanced cyclability of Li-ion rechargeable batteries. <i>Electrochimica Acta</i> , 2009, 54, 7519-7524.	2.6	80
208	Electrocatalytic reduction of hydrogen peroxide at nanostructured copper modified electrode. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 321-327.	1.5	29
209	Morphology-dependent electrochemical supercapacitive characteristics of nanostructured manganese dioxide. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1033-1038.	1.5	19
210	Electro-oxidation of methanol on co-deposited Pt-MoO _x prepared by cyclic voltammetry with different scanning potential ranges. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 1053-1058.	1.5	12
211	Aggregation of self-assembled Ni(OH) ₂ nanosheets under hydrothermal conditions. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 1118-1122.	1.1	4
212	Mg micro/nanoscale materials with sphere-like morphologies: Size-controlled synthesis and characterization. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2009, 52, 35-39.	0.2	2
213	Magnesium microspheres and nanospheres: Morphology-controlled synthesis and application in Mg/MnO ₂ batteries. <i>Nano Research</i> , 2009, 2, 713-721.	5.8	30
214	Influence of nitrogen hetero-substitution on the electrochemical performance of coal-based activated carbons measured in non-aqueous electrolyte. <i>Mining Science and Technology</i> , 2009, 19, 295-299.	0.3	5
215	Synthesis and characterization of partially disulfonated hydroquinone-based poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>Science Part A</i> , 2009, 47, 384-391.	2.5	43
216	Synthesis of sulfonated aromatic poly(ether amide)s and their application to proton exchange membrane fuel cells. <i>Journal of Polymer Science Part A</i> , 2009, 47, 485-496.	2.5	38
217	Synthesis and characterization of sulfonated- α -fluorinated, hydrophilic-hydrophobic multiblock copolymers for proton exchange membranes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1038-1051.	2.5	66
218	Ionomers for proton exchange membrane fuel cells by sulfonation of novel dendritic multiblock copoly(ether-sulfone)s. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5461-5473.	2.5	26
219	A highly ordered nanostructured carbon-sulphur cathode for lithium-sulphur batteries. <i>Nature Materials</i> , 2009, 8, 500-506.	13.3	5,250
220	Fundamental investigations of the effect of the linkage group on the behavior of hydrophilic-hydrophobic poly(arylene ether sulfone) multiblock copolymers for proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2009, 333, 1-11.	4.1	86
221	Composite membrane of sulfonated poly(ether ether ketone) and sulfated poly(vinyl alcohol) for use in direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2009, 342, 221-226.	4.1	64
222	Manganese oxide-carbon composite as supercapacitor electrode materials. <i>Microporous and Mesoporous Materials</i> , 2009, 123, 260-267.	2.2	150
223	Thermodynamics in the formation of the solid electrolyte interface on the graphite electrode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2009, 54, 3538-3542.	2.6	9
224	Synthesis of well-dispersed PtRuSnO _x by ultrasonic-assisted chemical reduction and its property for methanol electrooxidation. <i>Electrochimica Acta</i> , 2009, 54, 4436-4440.	2.6	17

#	ARTICLE	IF	CITATIONS
225	Evaluation of assemblies based on carbon materials modified with dendrimers containing platinum nanoparticles for PEM-fuel cells. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2008-2014.	3.8	15
226	Poly(vinyl alcohol)/sulfated β -cyclodextrin for direct methanol fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 6917-6924.	3.8	35
227	Electrochemical fabrication of novel platinum-poly(5-nitroindole) composite catalyst and its application for methanol oxidation in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9316-9323.	3.8	78
228	Novel hydrophilic-hydrophobic multiblock copolyimides as proton exchange membranes: Enhancing the proton conductivity. <i>Polymer</i> , 2009, 50, 4505-4511.	1.8	38
229	Preparation of Pt-Ru catalysts on Nafion(Na ⁺)-bonded carbon layer using galvanostatic pulse electrodeposition for proton-exchange membrane fuel cell. <i>Journal of Power Sources</i> , 2009, 187, 363-370.	4.0	36
230	Novel sulfonated poly(ether ether ketone)s for direct methanol fuel cells usage: Synthesis, water uptake, methanol diffusion coefficient and proton conductivity. <i>Journal of Power Sources</i> , 2009, 189, 875-881.	4.0	38
231	Carbon nanosheets as the electrode material in supercapacitors. <i>Journal of Power Sources</i> , 2009, 194, 1208-1212.	4.0	172
232	Functional materials with high-efficiency energy storage and conversion for batteries and fuel cells. <i>Coordination Chemistry Reviews</i> , 2009, 253, 2805-2813.	9.5	137
233	Numerical modeling of electrochemical-mechanical interactions in lithium polymer batteries. <i>Computers and Structures</i> , 2009, 87, 1567-1579.	2.4	120
234	Development of an air bleeding technique and specific duration to improve the CO tolerance of proton-exchange membrane fuel cells. <i>Applied Thermal Engineering</i> , 2009, 29, 2518-2526.	3.0	15
235	An activated carbon with high capacitance from carbonization of a resorcinol-formaldehyde resin. <i>Electrochemistry Communications</i> , 2009, 11, 715-718.	2.3	121
236	Composited hybrid electrocatalysts of Pt-based nanoparticles and nanowires for low temperature polymer electrolyte fuel cells. <i>Electrochemistry Communications</i> , 2009, 11, 1026-1029.	2.3	33
237	Hierarchical porous carbons with high performance for supercapacitor electrodes. <i>Carbon</i> , 2009, 47, 1715-1722.	5.4	303
238	Highly dispersed Pt nanoparticles by pentagon defects introduced in bamboo-shaped carbon nanotube support and their enhanced catalytic activity on methanol oxidation. <i>Carbon</i> , 2009, 47, 1833-1840.	5.4	46
239	Graphene nanosheets for enhanced lithium storage in lithium ion batteries. <i>Carbon</i> , 2009, 47, 2049-2053.	5.4	1,281
240	Structural and Functional Analogues of the Active Sites of the [Fe]-, [NiFe]-, and [FeFe]-Hydrogenases. <i>Chemical Reviews</i> , 2009, 109, 2245-2274.	23.0	1,184
241	Voltammetry and Redox Charge Storage Capacity of Ferrocene-Functionalized Silica Nanoparticles. <i>Langmuir</i> , 2009, 25, 10370-10375.	1.6	29
242	Nitrogen-Doped Carbon Nanotube Arrays with High Electrocatalytic Activity for Oxygen Reduction. <i>Science</i> , 2009, 323, 760-764.	6.0	6,535

#	ARTICLE	IF	CITATIONS
243	Supercapacitor Devices Based on Graphene Materials. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13103-13107.	1.5	2,295
244	Conclusions and New Directions. , 2009, , 315-345.		0
245	Nanocomposites Derived from Phenol-Functionalized Si Nanoparticles for High Performance Lithium Ion Battery Anodes. <i>Chemistry of Materials</i> , 2009, 21, 6-8.	3.2	60
246	Synthesis and molecular-mass characteristics of some cardo poly(benzimidazoles). <i>Polymer Science - Series B</i> , 2009, 51, 166-173.	0.3	26
247	Capacitance characteristics of nanoporous carbon materials in ionistors based on RbAg4I5 solid electrolyte. <i>Russian Journal of Electrochemistry</i> , 2009, 45, 538-541.	0.3	2
248	Low-Temperature Synthesis of Monodisperse 3D Manganese Oxide Nanoflowers and Their Pseudocapacitance Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 54-60.	1.5	119
249	Silicotungstic Acid Based Carbon Supported Noble Metal Electrodes for Energy Conversion Application. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12918-12925.	1.5	4
250	Unique Hydrogen-Bonded Structure of Water around Ca Ions Confined in Carbon Slit Pores. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12622-12624.	1.5	23
251	Architecture of Bimetallic Pt _x Co _{1-x} Electro catalysts for Oxygen Reduction Reaction As Investigated by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12674-12681.	1.5	88
252	Free-Standing Palladium/Polyamide 6 Nanofibers for Electrooxidation of Alcohols in Alkaline Medium. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16174-16180.	1.5	39
253	Preparation and Proton Conductivity of Sulfonated Polymer-Modified Sintered and Self-Assembled Silica Colloidal Crystals. <i>Chemistry of Materials</i> , 2009, 21, 2013-2019.	3.2	38
254	High-Resolution ⁸⁹ Y and ⁴⁵ Sc NMR Spectroscopic Study of Short-Range Structural Order in Nanocrystalline Y- and Sc-doped CeO ₂ and ZrO ₂ . <i>Journal of Physical Chemistry C</i> , 2009, 113, 6553-6560.	1.5	30
255	RuO ₂ /carbon nanotubes composites synthesized by microwave-assisted method for electrochemical supercapacitor. <i>Synthetic Metals</i> , 2009, 159, 158-161.	2.1	43
256	Electrochemical investigations of self-doped polyaniline nanofibers as a new electroactive material for high performance redox supercapacitor. <i>Synthetic Metals</i> , 2009, 159, 1717-1722.	2.1	98
257	Polyphosphate based electrochemical capacitors. <i>Synthetic Metals</i> , 2009, 159, 2309-2311.	2.1	1
258	Optimum condition for the growth of Pt/CeO ₂ nanocomposite electrodes for thin-film fuel cells. <i>Journal of Alloys and Compounds</i> , 2009, 473, L28-L32.	2.8	10
259	Carbon-based materials as supercapacitor electrodes. <i>Chemical Society Reviews</i> , 2009, 38, 2520.	18.7	6,276
260	Templated Nanocrystal-Based Porous TiO ₂ Films for Next-Generation Electrochemical Capacitors. <i>Journal of the American Chemical Society</i> , 2009, 131, 1802-1809.	6.6	887

#	ARTICLE	IF	CITATIONS
261	Enzymatic Biofuel Cells. , 2009, , 179-241.		5
262	Mesoporous nanowire array architecture of manganese dioxide for electrochemical capacitor applications. Chemical Communications, 2009, , 7575.	2.2	104
263	Proton Mobilities in Phosphonic Acid-Based Proton Exchange Membranes Probed by 1H and 2H Solid-State NMR Spectroscopy. Journal of Physical Chemistry B, 2009, 113, 6674-6681.	1.2	42
264	Carbon nanotube arrays and their composites for electrochemical capacitors and lithium-ion batteries. Energy and Environmental Science, 2009, 2, 932.	15.6	239
265	Solvothermal Synthesis of LiFePO ₄ Hierarchically Dumbbell-Like Microstructures by Nanoplate Self-Assembly and Their Application as a Cathode Material in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2009, 113, 3345-3351.	1.5	184
266	Hydrogel-polymer electrolytes for electrochemical capacitors: an overview. Energy and Environmental Science, 2009, 2, 55-67.	15.6	361
267	A novel hybrid supercapacitor with a carbon nanotube cathode and an iron oxide/carbon nanotube composite anode. Journal of Materials Chemistry, 2009, 19, 8755.	6.7	278
268	Combination of Lightweight Elements and Nanostructured Materials for Batteries. Accounts of Chemical Research, 2009, 42, 713-723.	7.6	454
269	Rechargeable Ni-Li Battery Integrated Aqueous/Nonaqueous System. Journal of the American Chemical Society, 2009, 131, 15098-15099.	6.6	105
270	Selective Synthesis of Manganese Oxide Nanostructures for Electrocatalytic Oxygen Reduction. ACS Applied Materials & Interfaces, 2009, 1, 460-466.	4.0	154
272	Electrocatalytic Activity and CO Tolerance Properties of Mesostructured Pt/WO ₃ Composite as an Anode Catalyst for PEMFCs. Journal of Physical Chemistry C, 2009, 113, 4134-4138.	1.5	76
273	Green energy storage materials: Nanostructured TiO ₂ and Sn-based anodes for lithium-ion batteries. Energy and Environmental Science, 2009, 2, 818.	15.6	814
274	Organometallic chemistry: an alternative approach towards metal oxide nanoparticles. Journal of Materials Chemistry, 2009, 19, 4044.	6.7	84
275	Synthesis and application of RuSe ₂ nanotubes as a methanol tolerant electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry, 2009, 19, 1024-1030.	6.7	20
276	Electrodes Modified with Electroinactive Layers: Distinguishing Through-Film Transport from Pinhole (Pore) Diffusion. Langmuir, 2009, 25, 2519-2529.	1.6	27
277	Hydrogel-Assisted Polyaniline Microfiber as Controllable Electrochemical Actuatable Supercapacitor. Journal of the Electrochemical Society, 2009, 156, A313.	1.3	61
278	Novel highly proton conductive sulfonated poly(p-phenylene) from 2,5-dichloro-4-(phenoxypropyl)benzophenone as proton exchange membranes for fuel cell applications. Chemical Communications, 2009, , 4744.	2.2	50
279	Asymmetric Supercapacitor Based on Loose-Packed Cobalt Hydroxide Nanoflake Materials and Activated Carbon. Journal of the Electrochemical Society, 2009, 156, A1000.	1.3	121

#	ARTICLE	IF	CITATIONS
280	Harnessing electric power from monosaccharidesâ€”a carbohydrateâ€”air alkaline fuel cell mediated by redox dyes. <i>Energy and Environmental Science</i> , 2009, 2, 965.	15.6	25
281	Biorecovery of Precious Metals from Wastes and Conversion into Fuel Cell Catalyst for Electricity Production. <i>Advanced Materials Research</i> , 0, 71-73, 729-732.	0.3	10
282	Hierarchically structured carbon nanocomposites as electrode materials for electrochemical energy storage, conversion and biosensor systems. <i>Journal of Materials Chemistry</i> , 2009, 19, 8707.	6.7	77
283	Electrodeposition of Pt nanoparticles on carbon nanotubes-modified polyimide materials for electrocatalytic applications. <i>Catalysis Communications</i> , 2009, 10, 610-613.	1.6	39
284	Preparation and characterization of $\text{LiAl}_x\text{Mn}_2\text{xO}_4$ for a supercapacitor in aqueous electrolyte. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2009, 16, 112-118.	2.4	10
285	Supercapacitive Properties of PEDOT and Carbon Colloidal Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2536-2543.	4.0	77
286	Ultrafast All-Polymer Paper-Based Batteries. <i>Nano Letters</i> , 2009, 9, 3635-3639.	4.5	422
287	APPLICATIONS â€” TRANSPORTATION Electric Vehicle: Batteries. , 2009, , 219-235.		7
288	Improved electrochemical performances by carbon nanocapsules as an electrocatalyst support for direct methanol fuel cells. <i>Diamond and Related Materials</i> , 2009, 18, 501-504.	1.8	10
289	Fabrication and High Electrocatalytic Activity of Three-Dimensional Porous Nanosheet Pt/Boron-Doped Diamond Hybrid Film. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13787-13792.	1.5	45
290	Effect of Carbon Source on the Textural and Electrochemical Properties of Novel Cage-type Mesoporous Carbon as a Replica of KIT-5 Mesoporous Silica. <i>Chemistry Letters</i> , 2009, 38, 918-919.	0.7	13
291	Solid-State Electrochemistry. , 2009, , 375-420.		0
293	Mesoporous Materials toward Nanofabricator and Nanoreactor. <i>Electrochemistry</i> , 2010, 78, 105-113.	0.6	6
294	Carbon Structure in Polyimide Membrane Formed by Ion Irradiation. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2010, 23, 507-510.	0.1	1
296	Effect of Coating by Perfluorosulfonated Ionomer Film on Electrochemical Behaviors of Pt(111) Electrode in Acidic Solutions. <i>Chemistry Letters</i> , 2010, 39, 286-287.	0.7	10
297	Nanoscale morphology in sulphonated poly(Ether ether ketone)-based ionomeric membranes: Mesoscale simulations. <i>Polymer Science - Series A</i> , 2010, 52, 191-208.	0.4	12
298	Synergy effect of nanostructure electrodes supported by tungsten carbide and oxide for methanol electrooxidation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15181.	1.3	12
299	Thermochemistry of Proton-Coupled Electron Transfer Reagents and its Implications. <i>Chemical Reviews</i> , 2010, 110, 6961-7001.	23.0	1,373

#	ARTICLE	IF	CITATIONS
300	Graphene-based materials in electrochemistry. <i>Chemical Society Reviews</i> , 2010, 39, 3157.	18.7	1,297
301	Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. <i>Chemistry of Materials</i> , 2010, 22, 1392-1401.	3.2	2,060
302	Graphene-based materials as supercapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 5983.	6.7	1,338
303	First principles mechanistic study of borohydride oxidation over the Pt(111) surface. <i>Electrochimica Acta</i> , 2010, 55, 1175-1183.	2.6	66
304	Synthesis and electrochemical properties of Co-doped Li ₃ V ₂ (PO ₄) ₃ cathode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 1575-1581.	2.6	175
305	The effects of cations and anions on the ionic conductivity of poly[bis(2-(2-methoxyethoxy)ethoxy)phosphazene] doped with lithium and magnesium salts of trifluoromethanesulfonate and bis(trifluoromethanesulfonyl)imidate. <i>Solid State Ionics</i> , 2010, 181, 1721-1726.	1.3	49
306	The preparation and performance of calcium carbide-derived carbon/polyaniline composite electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2010, 195, 1747-1752.	4.0	48
307	Mesoporous carbon-encapsulated NiO nanocomposite negative electrode materials for high-rate Li-ion battery. <i>Journal of Power Sources</i> , 2010, 195, 4977-4983.	4.0	110
308	A review of conduction phenomena in Li-ion batteries. <i>Journal of Power Sources</i> , 2010, 195, 7904-7929.	4.0	1,367
309	AC impedance investigation of plating potentials on the catalytic activities of Pt nanocatalysts for methanol electrooxidation. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 101-107.	1.2	19
310	Ru oxide/carbon fabric composites for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 231-240.	1.2	20
311	Capacitive characteristics of nanocomposites of conducting polypyrrole and functionalized carbon nanotubes: effects of in situ dopant and film thickness. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1565-1575.	1.2	17
312	Asymmetric supercapacitors based on stabilized $\hat{\pm}$ -Ni(OH) ₂ and activated carbon. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1533-1539.	1.2	186
313	Nanoflake-like cobalt hydroxide/ordered mesoporous carbon composite for electrochemical capacitors. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2065-2075.	1.2	41
314	Spinel LiNi _{0.5} Mn _{1.5} O ₄ and its derivatives as cathodes for high-voltage Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2191-2202.	1.2	160
315	Inkjet printing of single-walled carbon nanotube/RuO ₂ nanowire supercapacitors on cloth fabrics and flexible substrates. <i>Nano Research</i> , 2010, 3, 594-603.	5.8	397
316	Biorefining of precious metals from wastes: an answer to manufacturing of cheap nanocatalysts for fuel cells and power generation via an integrated biorefinery?. <i>Biotechnology Letters</i> , 2010, 32, 1821-1828.	1.1	53
317	Hollow spherical nanocapsules of poly(pyrrole) as a promising support for Pt/Ru nanoparticles based catalyst. <i>Materials Chemistry and Physics</i> , 2010, 120, 18-22.	2.0	18

#	ARTICLE	IF	CITATIONS
318	Co(OH) ₂ /SBA-15 molecular sieves nanocomposite materials for electrochemical capacitors. <i>Materials Chemistry and Physics</i> , 2010, 122, 368-373.	2.0	11
319	Performance of high-power lithium-ion cells under pulse discharge and charge conditions. <i>International Journal of Energy Research</i> , 2010, 34, 190-203.	2.2	38
320	Differentiation of Bulk and Surface Contribution to Supercapacitance in Amorphous and Crystalline NiO. <i>ChemSusChem</i> , 2010, 3, 1367-1370.	3.6	45
321	Chemical Bonding Assembly of Multifunctional Oxide Nanocomposites. <i>Advanced Functional Materials</i> , 2010, 20, 231-238.	7.8	30
322	Recent Progress in Nanostructured Cathode Materials for Lithium Secondary Batteries. <i>Advanced Functional Materials</i> , 2010, 20, 3818-3834.	7.8	257
323	Effect of the Ionic Conductivity on the Performance of Polyelectrolyte-Based Supercapacitors. <i>Advanced Functional Materials</i> , 2010, 20, 4344-4350.	7.8	83
325	Chemical Dealloying Mechanism of Bimetallic Pt-Co Nanoparticles and Enhancement of Catalytic Activity toward Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2010, 16, 4602-4611.	1.7	96
326	Designed Smart System of the Sandwiched and Concentric Architecture of RuO ₂ /C/RuO ₂ for High Performance in Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2010, 16, 3598-3603.	1.7	58
329	Nitrogen-Doped Ordered Mesoporous Graphitic Arrays with High Electrocatalytic Activity for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2565-2569.	7.2	1,223
330	Enhancing by Weakening: Electrooxidation of Methanol on Pt ₃ Co and Pt Nanocubes. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6848-6851.	7.2	183
331	Preparation and characterization of sulfonated poly(arylene ether naphthalimide)s for use as proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3187-3196.	1.3	9
332	DNA-Templated Synthesis of Cationic Poly(3,4-ethylenedioxythiophene) Derivative for Supercapacitor Electrodes. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1892-1896.	2.0	28
333	Oxygen reduction reaction selectivity of RuSe ₂ in formic acid solutions. <i>Journal of Electroanalytical Chemistry</i> , 2010, 648, 78-84.	1.9	12
334	Synthesis and crosslinking of hydroxyl-functionalized sulfonated poly(ether ether ketone) copolymer as candidates for proton exchange membranes. <i>Journal of Membrane Science</i> , 2010, 352, 14-21.	4.1	42
335	Controlled growth and modification of vertically-aligned carbon nanotubes for multifunctional applications. <i>Materials Science and Engineering Reports</i> , 2010, 70, 63-91.	14.8	118
336	Direct dimethyl-ether proton exchange membrane fuel cells and the use of heteropolyacids in the anode catalyst layer for enhanced dimethyl ether oxidation. <i>Journal of Power Sources</i> , 2010, 195, 39-45.	4.0	26
337	Structure, morphology, and cathode performance of Li _{1-x} [Ni _{0.5} Mn _{1.5}]O ₄ prepared by coprecipitation with oxalic acid. <i>Journal of Power Sources</i> , 2010, 195, 2918-2923.	4.0	53
338	Fabrication of protic ionic liquid/sulfonated polyimide composite membranes for non-humidified fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 5909-5914.	4.0	149

#	ARTICLE	IF	CITATIONS
339	Inorganic-organic hybrid polymer electrolyte based on polysiloxane/poly(maleic imide-co-styrene) network. Journal of Power Sources, 2010, 195, 6434-6442.	4.0	8
340	High efficiency chemical energy conversion system based on a methane catalytic decomposition reaction and two fuel cells: Part I. Process modeling and validation. Journal of Power Sources, 2010, 195, 6539-6548.	4.0	26
341	Facile preparation of porous one-dimensional Mn ₂ O ₃ nanostructures and their application as anode materials for lithium-ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 70-75.	1.3	42
342	Investigation on the structure and the oxidation activity of the solid carbon produced from catalytic decomposition of methane. Fuel, 2010, 89, 943-948.	3.4	37
343	High efficient electrocatalytic oxidation of methanol on Pt/polyindoles composite catalysts. International Journal of Hydrogen Energy, 2010, 35, 3270-3279.	3.8	100
344	Effect of polyoxometalate amount deposited on Pt/C electrocatalysts for CO tolerant electrooxidation of H ₂ in polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2010, 35, 6853-6862.	3.8	32
345	CoS spheres for high-rate electrochemical capacitive energy storage application. International Journal of Hydrogen Energy, 2010, 35, 9709-9715.	3.8	139
346	Polyfluorinated boron cluster [B ₁₂ F ₁₁ H] ₂ based electrolytes for supercapacitors: Overcharge protection. Electrochemistry Communications, 2010, 12, 636-639.	2.3	17
347	A novel perspective on the formation of the solid electrolyte interphase on the graphite electrode for lithium-ion batteries. Electrochimica Acta, 2010, 55, 1785-1794.	2.6	50
348	The catalysts supported on metallized electrospun polyacrylonitrile fibrous mats for methanol oxidation. Electrochimica Acta, 2010, 55, 2983-2990.	2.6	26
349	Planar ultracapacitors of miniature interdigital electrode loaded with hydrous RuO ₂ and RuO ₂ nanorods. Electrochimica Acta, 2010, 55, 5768-5774.	2.6	66
350	Pine-cone morphology and pseudocapacitive behavior of nanoporous nickel oxide. Electrochimica Acta, 2010, 55, 8388-8396.	2.6	186
351	SnO ₂ -coated multiwall carbon nanotube composite anode materials for rechargeable lithium-ion batteries. Electrochimica Acta, 2010, 56, 314-320.	2.6	107
352	Ab initio prediction for the ionic conduction of lithium in LiInSiO_4 and LiIn . Solid Surface Science, 2010, 256, 7400-7405.	0.9	11
353	A computational study of H ₂ dissociation and CO adsorption on the PtML/WC(0001) surface. Applied Surface Science, 2010, 256, 7400-7405.	3.1	29
354	A novel polyaniline/mesoporous carbon nano-composite electrode for asymmetric supercapacitor. Chinese Chemical Letters, 2010, 21, 1509-1512.	4.8	48
355	Characterization of bi-material electrodes for electrochemical hybrid energy storage devices. Electrochemistry Communications, 2010, 12, 812-815.	2.3	45
356	New type of imidazole based salts designed specifically for lithium ion batteries. Electrochimica Acta, 2010, 55, 1450-1454.	2.6	86

#	ARTICLE	IF	CITATIONS
357	Preparation and characterization of three-dimensional tin thin-film anode with good cycle performance. <i>Electrochimica Acta</i> , 2010, 55, 3537-3541.	2.6	33
358	A novel layered manganese oxide/poly(aniline-co-o-anisidine) nanocomposite and its application for electrochemical supercapacitor. <i>Electrochimica Acta</i> , 2010, 55, 5414-5419.	2.6	48
359	Ordered mesoporous γ -MoO ₃ with iso-oriented nanocrystalline walls for thin-film pseudocapacitors. <i>Nature Materials</i> , 2010, 9, 146-151.	13.3	2,801
360	Synthesis and Characterization of Sulfonated Poly(arylene biphenylsulfone ether)s for Proton Exchange Membranes. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
361	Electrodeposition of MnO ₂ on Carbon Nanotube Thin Films as Flexible Electrodes for Supercapacitors. <i>Transactions of the Materials Research Society of Japan</i> , 2010, 35, 369-372.	0.2	11
362	Molecular Weight Effects on Poly(arylene ether sulfone)-Based Random and Multiblock Copolymers Characteristics for Fuel Cells. <i>ACS Symposium Series</i> , 2010, , 65-81.	0.5	4
363	Animal Models of Mucosal Candida Infections. <i>Methods in Microbiology</i> , 2010, 37, 329-352.	0.4	0
364	LaF ₃ -BaF ₂ -KF derived electrolyte in solid state fluoride-ion battery. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1266, 50701.	0.1	1
365	Effect of diffuse layer and pore shapes in mesoporous carbon supercapacitors. <i>Journal of Materials Research</i> , 2010, 25, 1469-1475.	1.2	53
366	Hierarchical paramecium-like hollow and solid Au/Pt bimetallic nanostructures constructed using goethite as template. <i>Nanotechnology</i> , 2010, 21, 395604.	1.3	6
367	Nanostructured materials for the construction of asymmetrical supercapacitors. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2010, 224, 479-503.	0.8	69
368	Co _{0.56} Ni _{0.44} Oxide Nanoflake Materials and Activated Carbon for Asymmetric Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2010, 157, A1341.	1.3	72
369	INFLUENCE OF PORE STRUCTURE ON THE ELECTROCHEMICAL PERFORMANCE OF ACTIVATED CARBON AS ELECTRODE MATERIAL FOR AQUEOUS SUPERCAPACITORS. <i>Functional Materials Letters</i> , 2010, 03, 201-205.	0.7	3
370	Single-Shot Preparation of Crystalline Nanoplate LiFePO ₄ by a Simple Polyol Route. <i>Journal of the Electrochemical Society</i> , 2010, 157, A824.	1.3	18
371	Storage of Electrical Energy. <i>Indian Chemical Engineer</i> , 2010, 52, 57-75.	0.9	3
372	Water Distribution in a Fuel Cell Stack. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2010, 32, 1355-1361.	1.2	1
373	Synthesis and Oxygen Reduction Activity of Shape-Controlled Pt ₃ Ni Nanopolyhedra. <i>Nano Letters</i> , 2010, 10, 638-644.	4.5	744
374	Ni(OH) ₂ Nanoplates Grown on Graphene as Advanced Electrochemical Pseudocapacitor Materials. <i>Journal of the American Chemical Society</i> , 2010, 132, 7472-7477.	6.6	1,865

#	ARTICLE	IF	CITATIONS
375	Single Nanowire Electrochemical Devices. <i>Nano Letters</i> , 2010, 10, 4273-4278.	4.5	143
376	A ferrocene-based carbon-iron lithium fluoride nanocomposite as a stable electrode material in lithium batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 1871.	6.7	83
377	Nickel oxalate nanostructures for supercapacitors. <i>Journal of Materials Chemistry</i> , 2010, 20, 6164.	6.7	57
378	Supergrowth of Aligned Carbon Nanotubes Directly on Carbon Papers and Their Properties as Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15223-15227.	1.5	70
379	Mn based olivine electrode material with high power and energy. <i>Chemical Communications</i> , 2010, 46, 1305.	2.2	81
380	Pt Nanoparticles Supported on Nitrogen-Doped Porous Carbon Nanospheres as an Electrocatalyst for Fuel Cells. <i>Chemistry of Materials</i> , 2010, 22, 832-839.	3.2	268
381	Engineering nanostructured electrodes and fabrication of film electrodes for efficient lithium ion intercalation. <i>Energy and Environmental Science</i> , 2010, 3, 1218.	15.6	244
382	Progress in ionic organic-inorganic composite membranes for fuelcell applications. <i>Polymer Chemistry</i> , 2010, 1, 388-408.	1.9	152
383	Preparation and Characterization of Flexible Asymmetric Supercapacitors Based on Transition-Metal-Oxide Nanowire/Single-Walled Carbon Nanotube Hybrid Thin-Film Electrodes. <i>ACS Nano</i> , 2010, 4, 4403-4411.	7.3	729
384	Self-Assembled Ultra-Compact Energy Storage Elements Based on Hybrid Nanomembranes. <i>Nano Letters</i> , 2010, 10, 2506-2510.	4.5	152
385	Synthesis and Charge Transport Properties of Redox-Active Nitroxide Polyethers with Large Site Density. <i>Macromolecules</i> , 2010, 43, 10382-10389.	2.2	121
386	Ion Transport Behavior in Triblock Copolymer-Templated Ordered Mesoporous Carbons with Different Pore Symmetries. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18745-18751.	1.5	53
387	Oxygen reduction reactivity of cobalt(ii) hangman porphyrins. <i>Chemical Science</i> , 2010, 1, 411.	3.7	225
388	Multicomponent Olivine Cathode for Lithium Rechargeable Batteries: A First-Principles Study. <i>Chemistry of Materials</i> , 2010, 22, 518-523.	3.2	91
389	High Rate Capability of a Dual-Porosity LiFePO ₄ /C Composite. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2031-2038.	4.0	57
390	Structural evolution of layered Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ upon electrochemical cycling in a Li rechargeable battery. <i>Journal of Materials Chemistry</i> , 2010, 20, 10179.	6.7	211
391	Insight into the Growth of Multiple Branched MnOOH Nanorods. <i>Crystal Growth and Design</i> , 2010, 10, 2969-2976.	1.4	39
392	Facile Synthesis of a Platinum Nanoflower Monolayer on a Single-Walled Carbon Nanotube Membrane and Its Application in Glucose Detection. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18121-18125.	1.5	56

#	ARTICLE	IF	CITATIONS
393	Fabrication of copper oxide multilayer nanosheets for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2010, 492, 26-30.	2.8	312
394	Structure and electrochemical properties of LiMnBO ₃ as a new cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2010, 494, 415-419.	2.8	51
395	High charge/discharge rate polypyrrole films prepared by pulse current polymerization. <i>Synthetic Metals</i> , 2010, 160, 1826-1831.	2.1	72
396	Fabrication and characterization of flexible and high capacitance supercapacitors based on MnO ₂ /CNT/papers. <i>Synthetic Metals</i> , 2010, 160, 2510-2514.	2.1	92
397	Characterization of graphene-based supercapacitors fabricated on Al foils using Au or Pd thin films as interlayers. <i>Synthetic Metals</i> , 2010, 160, 2613-2617.	2.1	32
398	A novel non-enzymatic hydrogen peroxide sensor based on Mn-nitritotriacetate acid (Mn-NTA) nanowires. <i>Talanta</i> , 2010, 81, 727-731.	2.9	38
399	Graphene Platelets and their Manganese Composites for Lithium- Ion Batteries. <i>ECS Transactions</i> , 2011, 33, 23-32.	0.3	9
400	Pseudocapacitive Contributions to Charge Storage in Highly Ordered Mesoporous Group V Transition Metal Oxides with Iso-Oriented Layered Nanocrystalline Domains. <i>Journal of the American Chemical Society</i> , 2010, 132, 6982-6990.	6.6	320
401	Solar Energy Supply and Storage for the Legacy and Nonlegacy Worlds. <i>Chemical Reviews</i> , 2010, 110, 6474-6502.	23.0	2,676
402	Metal-Free Carbon Nanomaterials Become More Active than Metal Catalysts and Last Longer. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2165-2173.	2.1	529
403	Hybrid Supercapacitor Based on Coaxially Coated Manganese Oxide on Vertically Aligned Carbon Nanofiber Arrays. <i>Chemistry of Materials</i> , 2010, 22, 5022-5030.	3.2	252
404	Dioxythiophene-Based Polymer Electrodes for Supercapacitor Modules. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3586-3593.	4.0	91
405	Polymer-Nanoparticle Composites: From Synthesis to Modern Applications. <i>Materials</i> , 2010, 3, 3468-3517.	1.3	669
406	Nitrogen-Doped Graphene as Efficient Metal-Free Electrocatalyst for Oxygen Reduction in Fuel Cells. <i>ACS Nano</i> , 2010, 4, 1321-1326.	7.3	3,658
407	Nanoscale Advances in Catalysis and Energy Applications. <i>Nano Letters</i> , 2010, 10, 2289-2295.	4.5	374
408	Synthesis of hierarchical rippled Bi ₂ O ₃ nanobelts for supercapacitor applications. <i>Chemical Communications</i> , 2010, 46, 5021.	2.2	206
409	Graphene Oxide~MnO ₂ Nanocomposites for Supercapacitors. <i>ACS Nano</i> , 2010, 4, 2822-2830.	7.3	1,983
410	Molecular dynamics simulations of atomically flat and nanoporous electrodes with a molten salt electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 170-182.	1.3	114

#	ARTICLE	IF	CITATIONS
411	Mesoporous carbons derived from citrates for use in electrochemical capacitors. <i>New Carbon Materials</i> , 2010, 25, 370-375.	2.9	26
412	Nanostructured Macromolecules. , 2010, , 1-78.		2
413	Humidity-Dependent Structure of Surface Water on Perfluorosulfonated Ionomer Thin Film Studied by Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3958-3961.	1.5	25
414	An Electrocatalyst for Methanol Oxidation in DMFC: PtBi/XC-72 with Pt Solid-Solution Structure. <i>Journal of the Electrochemical Society</i> , 2010, 157, B580.	1.3	16
415	Porously Assembled 2D Nanosheets of Alkali Metal Manganese Oxides with Highly Reversible Pseudocapacitance Behaviors. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22134-22140.	1.5	96
416	Electrochemical Behavior of Pt Nanoparticles Supported on Meso- and Microporous Carbons for Fuel Cells. <i>Energy & Fuels</i> , 2010, 24, 3727-3732.	2.5	63
417	Structure and ionic conductivity in lithium garnets. <i>Journal of Materials Chemistry</i> , 2010, 20, 5167.	6.7	223
418	Microstructure and Pseudocapacitive Properties of Electrodes Constructed of Oriented NiO-TiO ₂ Nanotube Arrays. <i>Nano Letters</i> , 2010, 10, 4099-4104.	4.5	417
419	Oxygen vacancy formation and migration in Ce _{1-x} Zr _x O ₂ catalyst: A DFT+U calculation. <i>Journal of Chemical Physics</i> , 2010, 132, 214702.	1.2	57
420	Tuning of Capacitance Behavior of NiO Using Anionic, Cationic, and Nonionic Surfactants by Hydrothermal Synthesis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5203-5210.	1.5	276
421	A novel hybrid supercapacitor based on spherical activated carbon and spherical MnO ₂ in a non-aqueous electrolyte. <i>Journal of Materials Chemistry</i> , 2010, 20, 3883.	6.7	145
422	Electrocatalytic Four-Electron Reduction of Dioxygen by Electrochemically Deposited Poly{[<i>meso</i> -tetrakis(2-thienyl)porphyrinato]cobalt(II)}. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8633-8638.	1.5	53
423	Ordered Mesoporous MFe ₂ O ₄ (M = Co, Cu, Mg, Ni, Zn) Thin Films with Nanocrystalline Walls, Uniform 16 nm Diameter Pores and High Thermal Stability: Template-Directed Synthesis and Characterization of Redox Active Trevorite. <i>Inorganic Chemistry</i> , 2010, 49, 11619-11626.	1.9	73
424	Molecular Dynamics Study of Interfacial Confinement Effects of Aqueous NaCl Brines in Nanoporous Carbon. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20539-20546.	1.5	49
425	Measuring individual overpotentials in an operating solid-oxide electrochemical cell. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12138.	1.3	48
426	Hydrothermal synthesis of novel Mn ₃ O ₄ nano-octahedrons with enhanced supercapacitors performances. <i>Nanoscale</i> , 2010, 2, 2195.	2.8	184
427	Structure and dynamics of electrical double layers in organic electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5468.	1.3	107
428	Stabilization of platinum nanoparticles dispersed on carbon nanotubes by ionic liquid polymer. <i>Chemical Communications</i> , 2010, 46, 7954.	2.2	61

#	ARTICLE	IF	CITATIONS
429	Room-temperature synthesis of MnO ₂ ·3H ₂ O ultrathin nanostructures and their morphological transformation to well-dispersed nanorods. <i>Chemical Communications</i> , 2010, 46, 2468.	2.2	25
430	Synthesis of Functionalized Isotactic Polypropylene Dielectrics for Electric Energy Storage Applications. <i>Macromolecules</i> , 2010, 43, 4011-4015.	2.2	114
431	Oxygen Transport in Sc-Doped CeO ₂ : Cation (⁴⁵ Sc) NMR as a Probe of Anionic Conductivity. <i>Chemistry of Materials</i> , 2010, 22, 893-897.	3.2	23
432	Synthesis and characterization of RuO ₂ /poly(3,4-ethylenedioxythiophene) composite nanotubes for supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4309.	1.3	122
433	Rechargeable alkali-ion cathode-flow battery. <i>Journal of Materials Chemistry</i> , 2011, 21, 10113.	6.7	124
434	Preferential Solvation of Li ⁺ Directs Formation of Interphase on Graphitic Anode. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, A154.	2.2	119
435	Lithium diffusion pathways and vacancy formation in the Pmmn-Li _{1-x} FeO ₂ electrode material. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11156.	1.3	7
436	Redox switching and oxygen evolution at oxidized metal and metal oxide electrodes: iron in base. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21530.	1.3	89
437	Mechanism of oxygen reactions at porous oxide electrodes. Part 2: Oxygen evolution at RuO ₂ , IrO ₂ and Ir _x Ru _{1-x} O ₂ electrodes in aqueous acid and alkaline solution. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5314.	1.3	294
438	Functional mesoporous carbon nanotubes and their integration in situ with metal nanocrystals for enhanced electrochemical performances. <i>Chemical Communications</i> , 2011, 47, 8590.	2.2	66
439	What can we learn about battery materials from their magnetic properties?. <i>Journal of Materials Chemistry</i> , 2011, 21, 9865.	6.7	91
440	Porous nickel oxide nano-sheets for high performance pseudocapacitance materials. <i>Journal of Materials Chemistry</i> , 2011, 21, 16581.	6.7	175
441	Morphology-conserved transformation: synthesis of hierarchical mesoporous nanostructures of Mn ₂ O ₃ and the nanostructural effects on Li-ion insertion/deinsertion properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 6346.	6.7	165
442	Peapod-like nickel@mesoporous carbon core-shell nanowires: a novel electrode material for supercapacitors. <i>RSC Advances</i> , 2011, 1, 954.	1.7	45
443	Carbon Fabric Supported Manganese and Ruthenium Oxide Thin Films for Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2011, 158, A241.	1.3	19
444	Alkali Halide Interfacial Behavior in a Sequence of Charged Slit Pores. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23610-23619.	1.5	18
445	Functionally Strain-Graded Nanoscoops for High Power Li-Ion Battery Anodes. <i>Nano Letters</i> , 2011, 11, 377-384.	4.5	101
447	Model Compounds Based on Cyclotriphosphazene and Hexaphenylbenzene with Tethered Li ⁺ -Solvents and Their Ion-Conducting Properties. <i>Chemistry of Materials</i> , 2011, 23, 2120-2129.	3.2	21

#	ARTICLE	IF	CITATIONS
448	Lithium-Assisted Plastic Deformation of Silicon Electrodes in Lithium-Ion Batteries: A First-Principles Theoretical Study. <i>Nano Letters</i> , 2011, 11, 2962-2967.	4.5	301
449	Lithiation and Delithiation of Silicon Oxycarbide Single Particles with a Unique Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2318-2322.	4.0	36
450	One-step synthesis of low defect density carbon nanotube-doped Ni(OH) ₂ nanosheets with improved electrochemical performances. <i>RSC Advances</i> , 2011, 1, 484.	1.7	70
451	Nitrogen-Promoted Self-Assembly of N-Doped Carbon Nanotubes and Their Intrinsic Catalysis for Oxygen Reduction in Fuel Cells. <i>ACS Nano</i> , 2011, 5, 1677-1684.	7.3	220
452	Nanosheet-structured LiV ₃ O ₈ with high capacity and excellent stability for high energy lithium batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 10077.	6.7	112
453	Low-Defect MWNT@Pt Nanocomposite as a High Performance Electrocatalyst for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19405-19412.	1.5	79
454	PtRu catalysts supported on heteropolyacid and chitosan functionalized carbon nanotubes for methanol oxidation reaction of fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16349.	1.3	75
455	Nanostructured cathode materials: a key for better performance in Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 11040.	6.7	93
456	Ilmenite FeTiO ₃ Nanoflowers and Their Pseudocapitance. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17297-17302.	1.5	50
457	Room Temperature Synthesis Routes to the 2D Nanoplates and 1D Nanowires/Nanorods of Manganese Oxides with Highly Stable Pseudocapitance Behaviors. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13171-13179.	1.5	62
458	Ultrafine manganese dioxidenanowire network for high-performance supercapacitors. <i>Chemical Communications</i> , 2011, 47, 1264-1266.	2.2	224
460	Single-layer MoS ₂ /graphene dispersed in amorphous carbon: towards high electrochemical performances in rechargeable lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 17175.	6.7	288
461	In situ synthesis of MoS ₂ /graphene nanosheet composites with extraordinarily high electrochemical performance for lithium ion batteries. <i>Chemical Communications</i> , 2011, 47, 4252.	2.2	774
462	Controllable Deposition of Platinum Nanoparticles on Graphene As an Electrocatalyst for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15639-15645.	1.5	391
463	High-rate electrochemical capacitors from highly graphitic carbon-tipped manganese oxide/mesoporous carbon/manganese oxide hybrid nanowires. <i>Energy and Environmental Science</i> , 2011, 4, 1813.	15.6	315
464	Hierarchically structured carbon-based composites: Design, synthesis and their application in electrochemical capacitors. <i>Nanoscale</i> , 2011, 3, 529-545.	2.8	281
465	Nitrogen-doped graphene nanosheet-supported non-precious iron nitride nanoparticles as an efficient electrocatalyst for oxygen reduction. <i>RSC Advances</i> , 2011, 1, 1349.	1.7	91
466	CNT/Ni hybrid nanostructured arrays: synthesis and application as high-performance electrode materials for pseudocapacitors. <i>Energy and Environmental Science</i> , 2011, 4, 5000.	15.6	125

#	ARTICLE	IF	CITATIONS
467	Thermodynamic analysis on energy densities of batteries. <i>Energy and Environmental Science</i> , 2011, 4, 2614.	15.6	749
468	Electrospinning: designed architectures for energy conversion and storage devices. <i>Energy and Environmental Science</i> , 2011, 4, 4761.	15.6	654
469	Flexible Zn ₂ SnO ₄ /MnO ₂ Core/Shell Nanocable [~] Carbon Microfiber Hybrid Composites for High-Performance Supercapacitor Electrodes. <i>Nano Letters</i> , 2011, 11, 1215-1220.	4.5	807
470	Electrochemical Formation Mechanism for the Controlled Synthesis of Heterogeneous MnO ₂ /Poly(3,4-ethylenedioxythiophene) Nanowires. <i>ACS Nano</i> , 2011, 5, 5608-5619.	7.3	84
471	Supercapacitors based on self-assembled graphene organogel. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17249.	1.3	123
472	Aqueous NaCl Solutions within Charged Carbon-Slit Pores: Partition Coefficients and Density Distributions from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13786-13795.	1.5	82
473	Three-Dimensional Nitrogen-Doped Carbon Nanotubes/Graphene Structure Used as a Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24592-24597.	1.5	167
474	Effect of Microwave on the Nanowire Morphology, Optical, Magnetic, and Pseudocapacitance Behavior of Co ₃ O ₄ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 25543-25556.	1.5	240
475	Highly dispersed MoOx on carbon nanotube as support for high performance Pt catalyst towards methanol oxidation. <i>Chemical Communications</i> , 2011, 47, 8418.	2.2	55
476	Nanoweb anodes composed of one-dimensional, high aspect ratio, size tunable electrospun ZnFe ₂ O ₄ nanofibers for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 14999.	6.7	210
477	An electrochemically formed three-dimensional structure of polypyrrole/graphene nanoplatelets for high-performance supercapacitors. <i>RSC Advances</i> , 2011, 1, 1271.	1.7	137
478	Achieving high specific charge capacitances in Fe ₃ O ₄ /reduced graphene oxide nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 3422.	6.7	430
479	Hierarchical self-assembly of ultrathin nickel hydroxide nanoflakes for high-performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2011, 21, 3818.	6.7	430
480	Fabrication of Co ₃ O ₄ -reduced graphene oxide scrolls for high-performance supercapacitor electrodes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14462.	1.3	215
481	Graphene based new energy materials. <i>Energy and Environmental Science</i> , 2011, 4, 1113.	15.6	1,789
483	Heterogeneous nanostructured electrode materials for electrochemical energy storage. <i>Chemical Communications</i> , 2011, 47, 1384-1404.	2.2	451
484	Cross-linked polybenzimidazole with enhanced stability for high temperature proton exchange membrane fuel cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 2187-2193.	6.7	116
485	Crystal-match guided formation of single-crystal tricobalt tetraoxygen nanomesh as superior anode for electrochemical energy storage. <i>Energy and Environmental Science</i> , 2011, 4, 1845.	15.6	85

#	ARTICLE	IF	CITATIONS
486	Design and tailoring of a hierarchical graphene-carbon nanotube architecture for supercapacitors. Journal of Materials Chemistry, 2011, 21, 2374-2380.	6.7	398
487	NANOSTRUCTURED ELECTRODE MATERIALS FOR LITHIUM BATTERIES. , 2011, , 85-126.		0
489	Designed strategy to fabricate a patterned V ₂ O ₅ nanobelt array as a superior electrode for Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 2362-2368.	6.7	92
490	Temperature-Dependent Structure and Electrochemical Behavior of RuO ₂ /Carbon Nanocomposites. Journal of Physical Chemistry C, 2011, 115, 19117-19128.	1.5	45
491	Direct synthesis of flat cake-type ordered mesoporous carbon in a double surfactant system of P123/CTAB. Journal of Materials Chemistry, 2011, 21, 5576.	6.7	19
492	Flexible graphene/MnO ₂ composite papers for supercapacitor electrodes. Journal of Materials Chemistry, 2011, 21, 14706.	6.7	389
493	Ordered Large-Pore Mesoporous Li ₄ Ti ₅ O ₁₂ Spinel Thin Film Electrodes with Nanocrystalline Framework for High Rate Rechargeable Lithium Batteries: Relationships among Charge Storage, Electrical Conductivity, and Nanoscale Structure. Chemistry of Materials, 2011, 23, 4384-4393.	3.2	171
494	High-performance supercapacitor electrodes based on graphene hydrogels modified with 2-aminoanthraquinone moieties. Physical Chemistry Chemical Physics, 2011, 13, 11193.	1.3	167
496	Graphene-based nanomaterials for energy storage. Energy and Environmental Science, 2011, 4, 668-674.	15.6	1,169
497	The role of nanomaterials in redox-based supercapacitors for next generation energy storage devices. Nanoscale, 2011, 3, 839.	2.8	778
498	Physics and applications of aligned carbon nanotubes. Advances in Physics, 2011, 60, 553-678.	35.9	128
499	Synthesis, Structure, Electronic, Ionic, and Magnetic Properties of Li ₉ V ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ Cathode Material for Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 8422-8429.	1.5	41
500	Pyrolyzed graphene oxide/resorcinol-formaldehyde resin composites as high-performance supercapacitor electrodes. Journal of Materials Chemistry, 2011, 21, 2663.	6.7	87
501	Surfactant-intercalated, chemically reduced graphene oxide for high performance supercapacitor electrodes. Journal of Materials Chemistry, 2011, 21, 7302.	6.7	262
502	Preventing Graphene Sheets from Restacking for High-Capacitance Performance. Journal of Physical Chemistry C, 2011, 115, 23192-23197.	1.5	349
503	Rare earth "Mg"Ni-based hydrogen storage alloys as negative electrode materials for Ni/MH batteries. Journal of Alloys and Compounds, 2011, 509, 675-686.	2.8	266
504	Preparation and characterization of electro-spun RuO ₂ "Ag ₂ O composite nanowires for electrochemical capacitors. Journal of Alloys and Compounds, 2011, 509, 4336-4340.	2.8	29
505	Facilitated Ion Transport in All-Solid-State Flexible Supercapacitors. ACS Nano, 2011, 5, 7205-7213.	7.3	458

#	ARTICLE	IF	CITATIONS
506	High performance supercapacitors based on highly conductive nitrogen-doped graphene sheets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12554.	1.3	273
507	Vanadium Oxide Nanotube Spherical Clusters Prepared on Carbon Fabrics for Energy Storage Applications. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4512-4517.	4.0	76
508	Microwave-Mediated Synthesis for Improved Morphology and Pseudocapacitance Performance of Nickel Oxide. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2063-2073.	4.0	416
509	Mild and Cost-Effective One-Pot Synthesis of Pure Single-Crystalline $\text{I}^{2+}\text{Ag}_{0.33}\text{V}_2\text{O}_5$ Nanowires for Rechargeable Li-ion Batteries. <i>ChemSusChem</i> , 2011, 4, 1091-1094.	3.6	48
510	Accurate Static and Dynamic Properties of Liquid Electrolytes for Li-Ion Batteries from ab initio Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3085-3090.	1.2	115
511	Electrochemical Energy Storage Device for Electric Vehicles. <i>Journal of the Electrochemical Society</i> , 2011, 158, A443.	1.3	18
512	Impact of surface chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 917-924.	3.3	198
513	Electrochemical Energy Storage for Green Grid. <i>Chemical Reviews</i> , 2011, 111, 3577-3613.	23.0	4,276
514	Mechanistic Studies of O_2 Reduction Effected by Group 9 Bimetallic Hydride Complexes. <i>Journal of the American Chemical Society</i> , 2011, 133, 17796-17806.	6.6	29
515	Co_3O_4 nanocrystals on graphene as a synergistic catalyst for oxygen reduction reaction. <i>Nature Materials</i> , 2011, 10, 780-786.	13.3	5,120
516	A σ -counter-charge layer in generalized solvents framework for electrical double layers in neat and hybrid ionic liquid electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14723.	1.3	90
517	Current and Next-Generation Energy Storage Devices for Micro Vehicle Applications. <i>SAE International Journal of Materials and Manufacturing</i> , 0, 5, 19-29.	0.3	2
519	Synthesis, Characterization and Physiochemical Properties of Platinum Supported on Mesoporous Carbon. , 2011, , .		0
520	Global Lithium Availability. <i>Journal of Industrial Ecology</i> , 2011, 15, 760-775.	2.8	435
521	Nanoporous metal/oxide hybrid electrodes for electrochemical supercapacitors. <i>Nature Nanotechnology</i> , 2011, 6, 232-236.	15.6	1,914
522	PVA nano composite membrane for DMFC application. <i>Solid State Ionics</i> , 2011, 201, 21-26.	1.3	47
523	Synthesis of hydrothermally reduced graphene/ MnO_2 composites and their electrochemical properties as supercapacitors. <i>Journal of Power Sources</i> , 2011, 196, 8160-8165.	4.0	207
524	Hybridization of electrochemical capacitors and rechargeable batteries: An experimental analysis of the different possible approaches utilizing activated carbon, $\text{Li}_4\text{Ti}_5\text{O}_{12}$ and LiMn_2O_4 . <i>Journal of Power Sources</i> , 2011, 196, 10305-10313.	4.0	150

#	ARTICLE	IF	CITATIONS
525	A high-performance three-dimensional micro supercapacitor based on self-supporting composite materials. <i>Journal of Power Sources</i> , 2011, 196, 10465-10471.	4.0	139
526	Nitrogen-doped ultrathin carbon nanofibers derived from electrospinning: Large-scale production, unique structure, and application as electrocatalysts for oxygen reduction. <i>Journal of Power Sources</i> , 2011, 196, 9862-9867.	4.0	119
527	Study on the electrochemical properties of cubic ordered mesoporous carbon for supercapacitors. <i>Journal of Power Sources</i> , 2011, 196, 10472-10478.	4.0	97
528	Synthesis and electrochemical properties of Na-doped $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 10169-10175.	4.0	101
529	Effect of carbon types on the electrochemical properties of negative electrodes for Li-ion capacitors. <i>Journal of Power Sources</i> , 2011, 196, 10490-10495.	4.0	162
530	Graphene-MnO ₂ and graphene asymmetrical electrochemical capacitor with a high energy density in aqueous electrolyte. <i>Journal of Power Sources</i> , 2011, 196, 10782-10787.	4.0	161
531	Three-dimensional nanoporous gold for electrochemical supercapacitors. <i>Scripta Materialia</i> , 2011, 64, 923-926.	2.6	109
532	Phenol-formaldehyde resin-assisted synthesis of pure porous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ for rate capability improvement. <i>Materials Research Bulletin</i> , 2011, 46, 2312-2316.	2.7	10
533	Supercapacitor studies on globular polypyrrole microstructures developed by a facile electrochemical route. <i>Micro and Nano Letters</i> , 2011, 6, 1002.	0.6	7
534	Effect of Nafion ionomer and catalyst in cathode layers for the direct formic acid fuel cell with complex capacitance analysis on the ionic resistance. <i>Electrochimica Acta</i> , 2011, , .	2.6	3
535	Mixed bi-material electrodes based on LiMn_2O_4 and activated carbon for hybrid electrochemical energy storage devices. <i>Electrochimica Acta</i> , 2011, 56, 8403-8411.	2.6	44
536	Hollow graphitic carbon spheres for Pt electrocatalyst support in direct methanol fuel cell. <i>Electrochimica Acta</i> , 2011, 56, 8674-8679.	2.6	30
537	Electrochemically deposited hybrid nickel-cobalt hexacyanoferrate nanostructures for electrochemical supercapacitors. <i>Electrochimica Acta</i> , 2011, 56, 9191-9196.	2.6	61
538	Capacitive matching of pore size and ion size in the negative and positive electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2011, 56, 9248-9256.	2.6	29
539	Characterization and supercapacitor application of coin-like γ -nickel hydroxide nanoplates. <i>Electrochimica Acta</i> , 2011, 58, 89-94.	2.6	77
540	Effect of deposition potential on the structure and electrocatalytic behavior of Pt micro/nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15052-15059.	3.8	38
541	Polarizable energy-storage membrane based on ionic condensation and decondensation. <i>Energy and Environmental Science</i> , 2011, 4, 3960.	15.6	7
542	Ultralayered Co_3O_4 for High-Performance Supercapacitor Applications. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15646-15654.	1.5	902

#	ARTICLE	IF	CITATIONS
543	Electrical Energy Storage for the Grid: A Battery of Choices. <i>Science</i> , 2011, 334, 928-935.	6.0	11,724
544	Development and challenges of LiFePO_4 cathode material for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011, 4, 269-284.	15.6	1,058
545	Recent developments in nanostructured anode materials for rechargeable lithium-ion batteries. <i>Energy and Environmental Science</i> , 2011, 4, 2682.	15.6	2,057
546	Graphene-like MoS_2 /amorphous carbon composites with high capacity and excellent stability as anode materials for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 6251.	6.7	496
547	Synthesis of novel hierarchical graphene/polypyrrole nanosheet composites and their superior electrochemical performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 11253.	6.7	279
548	Mechanisms of Oxygen Reduction Reaction on Nitrogen-Doped Graphene for Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11170-11176.	1.5	1,235
549	Facile Construction of Manganese Oxide Doped Carbon Nanotube Catalysts with High Activity for Oxygen Reduction Reaction and Investigations into the Origin of their Activity Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2601-2606.	4.0	92
550	New generation, metal-free electrocatalysts for fuel cells, solar cells and water splitting. <i>Energy and Environmental Science</i> , 2011, 4, 2790.	15.6	90
551	Synthesis, characterization and catalytic property of manganese dioxide with different structures. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 1162-1167.	1.1	22
552	Polymeric organic-inorganic proton-exchange membranes for fuel cells produced by the sol-gel method. <i>Theoretical and Experimental Chemistry</i> , 2011, 47, 67-92.	0.2	13
553	Charge storage performance of doped carbons prepared from polyaniline for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 175-182.	1.2	39
554	The preparation and performance of flocculent polyaniline/carbon nanotubes composite electrode material for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 675-681.	1.2	40
555	Three-dimensional nanocarbon and the electrochemistry of nanocarbon/tin oxide for lithium ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2645-2652.	1.2	14
556	Microwave-assisted hydrothermal synthesis of crystalline $\text{WO}_3 \cdot 0.5\text{H}_2\text{O}$ mixtures for pseudocapacitors of the asymmetric type. <i>Journal of Power Sources</i> , 2011, 196, 2387-2392.	4.0	126
557	Performance and stability of electrochemical capacitor based on anthraquinone modified activated carbon. <i>Journal of Power Sources</i> , 2011, 196, 4117-4122.	4.0	182
558	Characteristics of mechanochemically prepared host-guest hybrid nanocomposites of vanadium oxide and conducting polymers. <i>Journal of Power Sources</i> , 2011, 196, 3331-3341.	4.0	35
559	Enhanced capacitance in partially exfoliated multi-walled carbon nanotubes. <i>Journal of Power Sources</i> , 2011, 196, 5209-5214.	4.0	102
560	Novel postsulfonated poly(ether ether ketone)-block-poly(ether sulfone)s as proton exchange membranes for fuel cells: Design, preparation and properties. <i>Journal of Membrane Science</i> , 2011, 380, 171-180.	4.1	22

#	ARTICLE	IF	CITATIONS
561	Synthesis and electrocatalytic oxygen reduction properties of truncated octahedral Pt ₃ Ni nanoparticles. Nano Research, 2011, 4, 72-82.	5.8	76
562	Hybrid silicon-carbon nanostructured composites as superior anodes for lithium ion batteries. Nano Research, 2011, 4, 290-296.	5.8	63
563	Advanced asymmetrical supercapacitors based on graphene hybrid materials. Nano Research, 2011, 4, 729-736.	5.8	390
564	Nano-structured porous carbon materials for catalysis and energy storage. Korean Journal of Chemical Engineering, 2011, 28, 731-743.	1.2	49
565	Functionalization of poly(4-chloromethylstyrene) with anthraquinone pendants for organic anode-active materials. Polymers for Advanced Technologies, 2011, 22, 1242-1247.	1.6	62
566	Defect levels through hybrid density functionals: Insights and applications. Physica Status Solidi (B): Basic Research, 2011, 248, 775-789.	0.7	253
567	Rational designs of crystal solid-solution materials for lithium-ion batteries. Physica Status Solidi (B): Basic Research, 2011, 248, 2027-2031.	0.7	3
568	Nanocomposite prepared from <i>in situ</i> grafting of polypyrrole to aminobenzoyl-functionalized multiwalled carbon nanotube and its electrochemical properties. Journal of Polymer Science Part A, 2011, 49, 2529-2537.	2.5	35
569	Supercapacitive energy storage based on ion-conducting channels in hydrophilized organic network. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1234-1240.	2.4	5
570	Ordered Mesoporous $\gamma\text{-Fe}_2\text{O}_3$ (Hematite) Thin-Film Electrodes for Application in High Rate Rechargeable Lithium Batteries. Small, 2011, 7, 407-414.	5.2	127
571	Pt-Au/CNT@TiO ₂ as a High-Performance Anode Catalyst for Direct Methanol Fuel Cells. Chinese Journal of Catalysis, 2011, 32, 74-79.	6.9	31
572	Functional Materials for Rechargeable Batteries. Advanced Materials, 2011, 23, 1695-1715.	11.1	1,419
573	Carbon Materials for Chemical Capacitive Energy Storage. Advanced Materials, 2011, 23, 4828-4850.	11.1	2,593
574	A Highly Order-Structured Membrane Electrode Assembly with Vertically Aligned Carbon Nanotubes for Ultra-Low Pt Loading PEM Fuel Cells. Advanced Energy Materials, 2011, 1, 1205-1214.	10.2	168
575	In-Plane Vacancy-Enabled High-Power Si-Graphene Composite Electrode for Lithium-Ion Batteries. Advanced Energy Materials, 2011, 1, 1079-1084.	10.2	405
577	Electrosynthesised Metal (Ni, Fe, Co) Oxide Films on Single-Walled Carbon Nanotube Platforms and Their Supercapacitance in Acidic and Neutral pH Media. Electroanalysis, 2011, 23, 971-979.	1.5	29
584	Fiber Supercapacitors Made of Nanowire-Fiber Hybrid Structures for Wearable/Flexible Energy Storage. Angewandte Chemie - International Edition, 2011, 50, 1683-1687.	7.2	796
585	A Methanol-Tolerant Pt/CoSe ₂ Nanobelt Cathode Catalyst for Direct Methanol Fuel Cells. Angewandte Chemie - International Edition, 2011, 50, 4905-4908.	7.2	124

#	ARTICLE	IF	CITATIONS
586	Boronâ€Doped Carbon Nanotubes as Metalâ€Free Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7132-7135.	7.2	1,121
587	Co ₃ S ₄ â€Graphene Hybrid: A Highâ€Performance Metal Chalcogenide Electrocatalyst for Oxygen Reduction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10969-10972.	7.2	413
588	Vertically Aligned BCN Nanotubes as Efficient Metalâ€Free Electrocatalysts for the Oxygen Reduction Reaction: A Synergetic Effect by Coâ€Doping with Boron and Nitrogen. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11756-11760.	7.2	725
589	Directing Protons to the Dioxygen Ligand of a Ruthenium(II) Complex with Pendent Amines in the Second Coordination Sphere. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10936-10939.	7.2	25
590	Highly Crystalline and Conductive Nitrogenâ€Doped Mesoporous Carbon with Graphitic Walls and Its Electrochemical Performance. <i>Chemistry - A European Journal</i> , 2011, 17, 3390-3397.	1.7	89
591	The Route to a Feasible Hydrogenâ€Storage Material: MOFs versus Ammonia Borane. <i>Chemistry - A European Journal</i> , 2011, 17, 10184-10207.	1.7	61
592	Bis(2,2â€biphenoxy)borates for Electrochemical Doubleâ€Layer Capacitor Electrolytes. <i>Chemistry - A European Journal</i> , 2011, 17, 3082-3085.	1.7	17
593	Shapeâ€Controlled Synthesis of Pt ₃ Co Nanocrystals with High Electrocatalytic Activity toward Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2011, 17, 12280-12284.	1.7	58
594	Lithiumâ€Ion Conducting Electrolyte Salts for Lithium Batteries. <i>Chemistry - A European Journal</i> , 2011, 17, 14326-14346.	1.7	341
595	Preparation of capacitorâ€™s electrode from sunflower seed shell. <i>Bioresource Technology</i> , 2011, 102, 1118-1123.	4.8	404
596	Metal oxide thin film based supercapacitors. <i>Current Applied Physics</i> , 2011, 11, 255-270.	1.1	758
597	Enhancing the catalytic performance of Pt/C catalysts using steam-etched carbon blacks as a catalyst support. <i>Carbon</i> , 2011, 49, 256-265.	5.4	20
598	Hierarchical porous carbon obtained from animal bone and evaluation in electric double-layer capacitors. <i>Carbon</i> , 2011, 49, 838-843.	5.4	346
599	Synthesis of mesoporous carbon spheres with a hierarchical pore structure for the electrochemical double-layer capacitor. <i>Carbon</i> , 2011, 49, 1248-1257.	5.4	302
600	Effect of molecular grafting on the pore size distribution and the double layer capacitance of activated carbon for electrochemical double layer capacitors. <i>Carbon</i> , 2011, 49, 1340-1348.	5.4	147
601	Effect of graphene nanosheet addition on the electrochemical performance of anode materials for lithium-ion batteries. <i>Analytica Chimica Acta</i> , 2011, 688, 146-155.	2.6	37
602	An asymmetric supercapacitor with anthraquinone and dihydroxybenzene modified carbon fabric electrodes. <i>Electrochemistry Communications</i> , 2011, 13, 147-149.	2.3	120
603	Effective enhancement of lithium-ion battery performance using SLMP. <i>Electrochemistry Communications</i> , 2011, 13, 664-667.	2.3	99

#	ARTICLE	IF	CITATIONS
604	Influence of multi-walled carbon nanotubes on the electrochemical performance of graphene nanocomposites for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2011, 56, 1629-1635.	2.6	93
605	Electrodeposition of methanol oxidation on Pt-f-multiwalled carbon nanotube composite, prepared by I^3 -radiolysis. <i>Electrochimica Acta</i> , 2011, 56, 2081-2086.	2.6	14
606	Aluminothermal synthesis and characterization of $\text{Li}_3\text{V}_2\text{Al}_x(\text{PO}_4)_3$ cathode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 2823-2827.	2.6	89
607	Fibrous MnO_2 electrode electrodeposited on carbon fiber for a fuel cell/battery system. <i>Electrochimica Acta</i> , 2011, 56, 6696-6701.	2.6	22
608	Nanosheets based mesoporous NiO microspherical structures via facile and template-free method for high performance supercapacitors. <i>Electrochimica Acta</i> , 2011, 56, 4849-4857.	2.6	287
609	Nafion/lead oxide-manganese oxide combined catalyst for use as a highly efficient alkaline air electrode in zinc-air battery. <i>Electrochimica Acta</i> , 2011, 56, 6205-6210.	2.6	39
610	Improvement of the performance for quasi-solid-state supercapacitor by using PVA-KOH-KI polymer gel electrolyte. <i>Electrochimica Acta</i> , 2011, 56, 6881-6886.	2.6	278
611	Considerations of the morphology in the design of proton exchange membranes: Cross-linked sulfonated poly(ether ether ketone)s using a new carboxyl-terminated benzimidazole as the cross-linker for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 2197-2206.	3.8	48
612	Recovery and quality of water produced by commercial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4022-4028.	3.8	28
613	A review on membraneless laminar flow-based fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5675-5694.	3.8	205
614	Methanol oxidation on MoO_3 promoted Pt/C electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5875-5884.	3.8	111
615	SPEEK/sulfonated cyclodextrin blend membranes for direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5666-5674.	3.8	31
616	Electrochemical co-deposition of bimetallic Pt-Ru nanoclusters dispersed on poly(3,4-ethylenedioxythiophene) and electrocatalytic behavior for methanol oxidation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 785-791.	1.7	25
617	Template-free prepared micro/nanostructured polypyrrole with ultrafast charging/discharging rate and long cycle life. <i>Journal of Power Sources</i> , 2011, 196, 2373-2379.	4.0	141
618	Enhanced capacitance and rate capability of graphene/polypyrrole composite as electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2011, 196, 5990-5996.	4.0	528
619	KOH modified graphene nanosheets for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2011, 196, 6003-6006.	4.0	173
620	Growth of polyaniline nanowhiskers on mesoporous carbon for supercapacitor application. <i>Journal of Power Sources</i> , 2011, 196, 7835-7840.	4.0	166
621	Facile preparation and electrochemical characterization of cobalt oxide/multi-walled carbon nanotube composites for supercapacitors. <i>Journal of Power Sources</i> , 2011, 196, 7841-7846.	4.0	126

#	ARTICLE	IF	CITATIONS
622	Direct synthesis of porous NiO nanowall arrays on conductive substrates for supercapacitor application. <i>Journal of Solid State Chemistry</i> , 2011, 184, 578-583.	1.4	103
623	Poly(arylene ether sulfone)s ionomers with pendant quaternary ammonium groups for alkaline anion exchange membranes: Preparation and stability issues. <i>Journal of Membrane Science</i> , 2011, 368, 246-253.	4.1	77
624	Three-dimensional supercapacitors composed of Ba _{0.65} Sr _{0.35} TiO ₃ (BST)/NiSi ₂ /silicon microchannel plates. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 387-392.	1.7	14
625	Asymmetric capacitance response from the chemical characteristics of activated carbons in KOH electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2011, 659, 161-167.	1.9	24
626	One-dimensional conducting polymer nanocomposites: Synthesis, properties and applications. <i>Progress in Polymer Science</i> , 2011, 36, 671-712.	11.8	568
627	Energy in the small. , 2011, , 15-49.		0
629	Synthesis and characterization of Gd and Er co-doped ceria as solid electrolyte for IT-SOFC via solid state method. , 2011, , .		0
630	Mesoporous γ -MnO ₂ Air Electrode Modified with Pd for Rechargeability in Lithium-Air Battery. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1483.	1.3	87
631	Electrolyte Additive in Support of 5V Li Ion Chemistry. <i>Journal of the Electrochemical Society</i> , 2011, 158, A337.	1.3	212
632	Ionic Liquid Heteropolyacid: Synthesis, Characterization, and Supercapacitor Study of Films Deposited by Electrophoresis. <i>Journal of the Electrochemical Society</i> , 2011, 158, A14.	1.3	40
633	Synthesis, Characterization and Electrochemical Studies of Active Materials for Sodium Ion Batteries. <i>ECS Transactions</i> , 2011, 35, 91-98.	0.3	34
634	Passivating Ability of Surface Film Derived from Vinylene Carbonate on Tin Negative Electrode. <i>Journal of the Electrochemical Society</i> , 2011, 158, A498.	1.3	36
635	Preparation and Electrochemical Properties of Pt/Mesoporous-C for Oxygen Reduction Reaction: Effect of Carbonation Temperature. <i>Advanced Materials Research</i> , 2011, 306-307, 155-158.	0.3	0
636	Fabrication and textural characterization of nanoporous carbon electrodes embedded with CuO nanoparticles for supercapacitors. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 044602.	2.8	46
638	Green energy storage materials: advanced nanostructured materials for lithium-ion batteries. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
639	An Interdisciplinary Graduate Level Course in Battery Systems Engineering. , 2011, , .		1
640	Partially Fluorinated Sulfonated Poly(ether amide) Fuel Cell Membranes: Influence of Chemical Structure on Membrane Properties. <i>Polymers</i> , 2011, 3, 222-235.	2.0	11
641	Water Soluble Polymers as Proton Exchange Membranes for Fuel Cells. <i>Polymers</i> , 2012, 4, 913-963.	2.0	143

#	ARTICLE	IF	CITATIONS
642	Supercapacitive Behaviors of Hierarchically Porous Carbons Prepared by Metal Oxide/Surfactant Templates. <i>Journal of the Electrochemical Society</i> , 2012, 159, A431-A437.	1.3	9
643	Nanosecond and picosecond laser structuring of electrode materials for lithium-ion batteries. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1388, 1.	0.1	1
644	Electric storage in de-alloyed Si-Al alloy ribbons. <i>Europhysics Letters</i> , 2012, 99, 47001.	0.7	9
645	Electrostatic interaction of neutral semi-permeable membranes. <i>Journal of Chemical Physics</i> , 2012, 136, 034902.	1.2	11
646	Electrospun carbon nanofibers surface-grafted with vapor-grown carbon nanotubes as hierarchical electrodes for supercapacitors. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	40
647	Capacitance of metallic and semiconducting nanowires examined by first-principles calculations. <i>Physical Review B</i> , 2012, 86, .	1.1	3
648	Electrochemical cycling reversibility of LiMoS_2 using first-principles calculations. <i>Applied Physics Letters</i> , 2012, 100, 263901.	1.5	23
649	Effect of Ag-Doping on the Capacitive Behavior of Amorphous Manganese Dioxide Electrodes. <i>Electrical and Electronic Engineering</i> , 2012, 2, 18-22.	1.0	12
650	Carbene Adduct as Overcharge Protecting Agent in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1587-A1590.	1.3	27
651	Facile synthesis of polypyrrole nanofiber and its enhanced electrochemical performances in different electrolytes. <i>EXPRESS Polymer Letters</i> , 2012, 6, 965-974.	1.1	39
652	Morphology Controlled Growth of Meso-Porous Co_3O_4 Nanostructures and Study of Their Electrochemical Capacitive Behavior. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1682-A1689.	1.3	13
653	New Trends on the Boron-Doped Diamond Electrode: From Fundamental Studies to Applications. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-2.	2.4	7
654	The Use of Diamond for Energy Conversion System Applications: A Review. <i>International Journal of Electrochemistry</i> , 2012, 2012, 1-20.	2.4	8
655	Electrochemical Properties of Nitrogen-Enriched Templated Microporous Carbons in Different Aqueous Electrolytes. <i>Advanced Materials Research</i> , 0, 571, 27-37.	0.3	0
656	Development of Lithium-ion Batteries from Micro-Structured to Nanostructured Materials: Its Issues and Challenges. <i>Science Progress</i> , 2012, 95, 283-314.	1.0	7
657	Ecological assessment of nano-enabled supercapacitors for automotive applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 40, 012013.	0.3	9
658	Breathing of Graphite Particles in a Lithium-Ion Battery. <i>Applied Physics Express</i> , 2012, 5, 047101.	1.1	6
659	Advances in solid acid electrolytes for fuel cell applications. <i>Nanomaterials and Energy</i> , 2012, 1, 265-279.	0.1	2

#	ARTICLE	IF	CITATIONS
660	Perspectives on supercapacitors, pseudocapacitors and batteries. <i>Nanomaterials and Energy</i> , 2012, 1, 136-158.	0.1	41
661	γ -Cobalt sulfide nanoparticles decorated graphene composite electrodes for high capacity and power supercapacitors. <i>Nanoscale</i> , 2012, 4, 7810.	2.8	145
662	Review on Conducting Polymers and Their Applications. <i>Polymer-Plastics Technology and Engineering</i> , 2012, 51, 1487-1500.	1.9	467
663	Theoretical Investigations on Decomposition of HCOOH Catalyzed by Pd ₇ Cluster. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11745-11752.	1.1	39
664	Synthesis of Hierarchical Three-Dimensional Vanadium Oxide Microstructures as High-Capacity Cathode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3874-3879.	4.0	157
665	Double-pillared cobalt Pacman complexes: synthesis, structures and oxygen reduction catalysis. <i>Dalton Transactions</i> , 2012, 41, 65-72.	1.6	46
666	Enhanced electrocatalytic performance of Pt-based nanoparticles on reduced graphene oxide for methanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2012, 682, 95-100.	1.9	40
667	Graphyne As a Promising Metal-Free Electrocatalyst for Oxygen Reduction Reactions in Acidic Fuel Cells: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20472-20479.	1.5	105
668	Powering up the Future: Radical Polymers for Battery Applications. <i>Advanced Materials</i> , 2012, 24, 6397-6409.	11.1	540
669	Reduced graphene oxide/titanium dioxide composites for supercapacitor electrodes: shape and coupling effects. <i>Journal of Materials Chemistry</i> , 2012, 22, 19161.	6.7	188
670	PtCo alloy nanoparticles supported on graphene nanosheets with high performance for methanol oxidation. <i>Science Bulletin</i> , 2012, 57, 3071-3079.	1.7	46
671	Review of Electrochemical Capacitors Based on Carbon Nanotubes and Graphene. <i>Graphene</i> , 2012, 01, 1-13.	0.3	102
672	Electrochemical Characterization of LiTi ₂ (PO ₄) ₃ as Anode Material for Aqueous Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1074-A1082.	1.3	33
674	Biosynthesis of Co ₃ O ₄ electrode materials by peptide and phage engineering: comprehension and future. <i>Energy and Environmental Science</i> , 2012, 5, 9936.	15.6	45
675	Bioelectrochemical systems (BES) for sustainable energy production and product recovery from organic wastes and industrial wastewaters. <i>RSC Advances</i> , 2012, 2, 1248-1263.	1.7	468
676	Energy and environmental applications of carbon nanotubes. <i>Environmental Chemistry Letters</i> , 2012, 10, 265-273.	8.3	125
677	Porous nanocubic Mn ₃ O ₄ •Co ₃ O ₄ composites and their application as electrochemical supercapacitors. <i>Dalton Transactions</i> , 2012, 41, 10175.	1.6	93
678	Recent advances in micro-/nano-structured hollow spheres for energy applications: From simple to complex systems. <i>Energy and Environmental Science</i> , 2012, 5, 5604-5618.	15.6	1,069

#	ARTICLE	IF	CITATIONS
679	A graphene-“platinum nanoparticles”-ionic liquid composite catalyst for methanol-tolerant oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2012, 5, 6923.	15.6	126
680	Nano-engineered Silicon Anodes for Lithium-Ion Rechargeable Batteries. <i>Nanostructure Science and Technology</i> , 2012, , 43-66.	0.1	0
681	Three-dimensional graphene architectures. <i>Nanoscale</i> , 2012, 4, 5549.	2.8	754
682	Formation of 1D Hierarchical Structures Composed of Ni ₃ S ₂ Nanosheets on CNTs Backbone for Supercapacitors and Photocatalytic H ₂ Production. <i>Advanced Energy Materials</i> , 2012, 2, 1497-1502.	10.2	321
683	Chitosan hydrogel-based electrode binder and electrolyte membrane for EDLCs: experimental studies and model validation. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 935-943.	1.5	48
684	Synthesis, characterization and electrocatalytic properties of nano-platinum-supported mesoporous carbon molecular sieves, Pt/NCCR-41. <i>Catalysis Today</i> , 2012, 198, 85-91.	2.2	16
685	Fabrication of manganese dioxide nanosheet-based thin-film electrode and its electrochemical capacitance performance. <i>Electrochimica Acta</i> , 2012, 78, 115-121.	2.6	30
686	Synthesis of self-assembled layered double hydroxides/carbon composites by in situ solvothermal method and their application in capacitors. <i>Journal of Solid State Chemistry</i> , 2012, 196, 175-181.	1.4	10
687	Phase-Controlled Synthesis of Cobalt Sulfides for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4246-4250.	4.0	165
688	Enhanced transport properties in polymer electrolyte composite membranes with graphene oxide sheets. <i>Carbon</i> , 2012, 50, 5395-5402.	5.4	152
689	Ion Exchange Membranes: Preparation, Properties, and Applications. , 2012, , 233-276.		9
690	Optimization of MnO ₂ /CNW composite electrodes for energy storage application. , 2012, , .		0
691	Shape-selective synthesis and facet-dependent electrocatalytic activity of CoPt ₃ nanocrystals. <i>CrystEngComm</i> , 2012, 14, 3359.	1.3	12
692	Enhancement of the electrocapacitive performance of manganese dioxide by introducing a microporous carbon spheres network. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5966.	1.3	30
693	Self-assembled hierarchical micro/nano-structured PEDOT as an efficient oxygen reduction catalyst over a wide pH range. <i>Journal of Materials Chemistry</i> , 2012, 22, 17153.	6.7	29
694	Continuous channels created by self-assembly of ionic cross-linked polysiloxane-“Nafion nanocomposites. <i>Polymer Chemistry</i> , 2012, 3, 1991.	1.9	15
695	Synthesis and characterization of a novel poly(arylene ether sulfone) containing pendent imidazole groups for high temperature proton exchange membranes. <i>Journal of Materials Chemistry</i> , 2012, 22, 22706.	6.7	36
696	Single step solventless deposition of highly proton-conducting anhydride layers. <i>Journal of Materials Chemistry</i> , 2012, 22, 7831.	6.7	6

#	ARTICLE	IF	CITATIONS
697	Facile synthetic fabrication of iron oxide particles and novel hydrogen superoxide supercapacitors. RSC Advances, 2012, 2, 6672.	1.7	81
698	Oxygen molecule dissociation on carbon nanostructures with different types of nitrogen doping. Nanoscale, 2012, 4, 1184-1189.	2.8	220
699	Formation of Pt@TiO ₂ /rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. Physical Chemistry Chemical Physics, 2012, 14, 473-476.	1.3	67
700	First-principles density functional calculation of electrochemical stability of fast Li ion conducting garnet-type oxides. Physical Chemistry Chemical Physics, 2012, 14, 10008.	1.3	66
701	Improved cyclability of lithium-ion battery anode using encapsulated V ₂ O ₃ nanostructures in well-graphitized carbon fiber. RSC Advances, 2012, 2, 5748.	1.7	67
702	Hierarchical porous nanostructures assembled from ultrathin MnO ₂ nanoflakes with enhanced supercapacitive performances. Journal of Materials Chemistry, 2012, 22, 2751-2756.	6.7	135
703	Microwave-assisted non-aqueous homogenous precipitation of nanoball-like mesoporous Ni(OH) ₂ as a precursor for NiOx and its application as a pseudocapacitor. Journal of Materials Chemistry, 2012, 22, 8029.	6.7	117
704	MnO ₂ ultralong nanowires with better electrical conductivity and enhanced supercapacitor performances. Journal of Materials Chemistry, 2012, 22, 14864.	6.7	101
705	Core-Shell Layered Double Hydroxide Microspheres with Tunable Interior Architecture for Supercapacitors. Chemistry of Materials, 2012, 24, 1192-1197.	3.2	358
706	Atomic Layer Deposition of TiO ₂ on Graphene for Supercapacitors. Journal of the Electrochemical Society, 2012, 159, A364-A369.	1.3	186
707	A simple and high-effective electrolyte mediated with p-phenylenediamine for supercapacitor. Journal of Materials Chemistry, 2012, 22, 19025.	6.7	154
708	Effects of deposition temperature and annealing temperature on the morphology and electrochemical capacitance of Ni(OH) ₂ thin films. Journal of Solid State Electrochemistry, 2012, 16, 3761-3767.	1.2	5
709	Comparing the Hydrogen-Bonding Effect of Brønsted Bases in Solution and When They Are Covalently Bound to the Surface of Glassy Carbon Electrodes in the Electrochemical Behavior of Hydroquinone. Journal of Physical Chemistry C, 2012, 116, 20447-20457.	1.5	13
710	Synthesis of Manganese Oxide Nanocompounds for Electrodes in Electrochemical Capacitors. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 833-838.	0.6	2
711	Graphene for energy harvesting/storage devices and printed electronics. Particuology, 2012, 10, 1-8.	2.0	113
712	Triple-layer proton exchange membranes based on chitosan biopolymer with reduced methanol crossover for high-performance direct methanol fuel cells application. Polymer, 2012, 53, 2643-2651.	1.8	54
713	Synthesis and characterization of multiblock semi-crystalline hydrophobic poly(ether ether) membranes. Polymer, 2012, 53, 3143-3153.	1.8	36
714	Controlling phosphonic acid substitution degree on proton conducting polyphosphazenes. Polymer, 2012, 53, 3659-3668.	1.8	24

#	ARTICLE	IF	CITATIONS
715	Synthesis and preparation of sulfonated hyperbranched poly(arylene ether sulfone)/poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 74	1.3	17
716	Stability investigations of electrocatalysts on the nanoscale. <i>Energy and Environmental Science</i> , 2012, 5, 9319.	15.6	230
717	Layer-by-layer self-assembly in the development of electrochemical energy conversion and storage devices from fuel cells to supercapacitors. <i>Chemical Society Reviews</i> , 2012, 41, 7291.	18.7	234
718	O ₂ Insertion into Group 9 Metal-Hydride Bonds: Evidence for Oxygen Activation through the Hydrogen-Atom-Abstraction Mechanism. <i>Inorganic Chemistry</i> , 2012, 51, 9499-9507.	1.9	18
719	Synthesis, Protonation, and Reduction of Ruthenium-Peroxo Complexes with Pendent Nitrogen Bases. <i>Inorganic Chemistry</i> , 2012, 51, 10916-10928.	1.9	30
720	Highly concentrated, stable nitrogen-doped graphene for supercapacitors: Simultaneous doping and reduction. <i>Applied Surface Science</i> , 2012, 258, 3438-3443.	3.1	163
721	Graphene oxide with improved electrical conductivity for supercapacitor electrodes. <i>Applied Surface Science</i> , 2012, 258, 3726-3731.	3.1	107
722	Porous carbon with tailored pore size for electric double layer capacitors application. <i>Applied Surface Science</i> , 2012, 258, 6097-6102.	3.1	44
723	Facile synthesis of monodisperse MnO nanoparticles from bulk MnO. <i>Journal of Crystal Growth</i> , 2012, 338, 152-156.	0.7	12
724	High energy ultracapacitor based on carbon xerogel electrodes and sodium sulfate electrolyte. <i>Journal of Power Sources</i> , 2012, 214, 137-141.	4.0	21
725	Alkaline deoxygenated graphene oxide for supercapacitor applications: An effective green alternative for chemically reduced graphene. <i>Journal of Power Sources</i> , 2012, 215, 1-10.	4.0	128
726	Failure mechanisms of LiNi _{0.5} Mn _{1.5} O ₄ electrode at elevated temperature. <i>Journal of Power Sources</i> , 2012, 215, 312-316.	4.0	158
727	Sn nanoparticles grown on graphene for enhanced electrochemical properties. <i>Journal of Power Sources</i> , 2012, 217, 303-308.	4.0	32
728	New functionalized graphene sheets for enhanced oxygen reduction as metal-free cathode electrocatalysts. <i>Journal of Power Sources</i> , 2012, 218, 168-173.	4.0	87
729	A novel non-precious metal catalyst synthesized via pyrolysis of polyaniline-coated tungsten carbide particles for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2012, 219, 249-252.	4.0	15
730	Asymmetric deposition of manganese oxide in single walled carbon nanotube films as electrodes for flexible high frequency response electrochemical capacitors. <i>Electrochimica Acta</i> , 2012, 78, 122-132.	2.6	44
731	NH ₃ -activated polyaniline for use as a high performance electrode material in supercapacitors. <i>Electrochimica Acta</i> , 2012, 78, 340-346.	2.6	26
732	Lithium perchlorate doped plasticized chitosan and starch blend as biodegradable polymer electrolyte for supercapacitors. <i>Electrochimica Acta</i> , 2012, 78, 398-405.	2.6	139

#	ARTICLE	IF	CITATIONS
733	High-performance electrochemical capacitors using electrodeposited MnO ₂ on carbon nanotube array grown on carbon fabric. <i>Electrochimica Acta</i> , 2012, 78, 515-523.	2.6	54
734	A facile and green strategy for the synthesis of MoS ₂ nanospheres with excellent Li-ion storage properties. <i>CrystEngComm</i> , 2012, 14, 8323.	1.3	98
735	Recent Advances in Metal Oxide-based Electrode Architecture Design for Electrochemical Energy Storage. <i>Advanced Materials</i> , 2012, 24, 5166-5180.	11.1	2,251
736	Preparation of Poly(sodium 4-vinylstyrene sulfonate) Functionalized Graphene/Manganese Dioxide Composites for Supercapacitor Application with Superior Cycling Stability. <i>Journal of the Chinese Chemical Society</i> , 2012, 59, 1351-1356.	0.8	4
737	Vapor phase oxidative synthesis of conjugated polymers and applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1329-1351.	2.4	105
738	Graphene nanostructures toward clean energy technology applications. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2012, 1, 317-336.	1.9	30
739	Enhancing electrochemical reaction sites in nickel-cobalt layered double hydroxides on zinc tin oxide nanowires: a hybrid material for an asymmetric supercapacitor device. <i>Nanoscale</i> , 2012, 4, 7266.	2.8	409
741	Power storage options for hybrid electric vehicles—A survey. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, 052701.	0.8	9
742	High-performance supercapacitors based on vertically aligned carbon nanotubes and nonaqueous electrolytes. <i>Nanotechnology</i> , 2012, 23, 155401.	1.3	140
743	Electrochemical assembly of MnO ₂ on ionic liquid-graphene films into a hierarchical structure for high rate capability and long cycle stability of pseudocapacitors. <i>Nanoscale</i> , 2012, 4, 5394.	2.8	46
744	A green and high energy density asymmetric supercapacitor based on ultrathin MnO ₂ nanostructures and functional mesoporous carbon nanotube electrodes. <i>Nanoscale</i> , 2012, 4, 807-812.	2.8	276
745	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. <i>Chemical Communications</i> , 2012, 48, 7259.	2.2	624
747	Pt Nanoparticle-Dispersed Graphene-Wrapped MWNT Composites As Oxygen Reduction Reaction Electrocatalyst in Proton Exchange Membrane Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3805-3810.	4.0	48
748	Graphene oxide based conductive glue as a binder for ultracapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 12993.	6.7	37
749	In situ synthesized heteropoly acid/polyaniline/graphene nanocomposites to simultaneously boost both double layer- and pseudo-capacitance for supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12823.	1.3	72
750	Preparation of Graphene Oxide/Polyaniline Nanocomposite with Assistance of Supercritical Carbon Dioxide for Supercapacitor Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14390-14398.	1.8	133
751	Hierarchical porous NiCo ₂ O ₄ nanowires for high-rate supercapacitors. <i>Chemical Communications</i> , 2012, 48, 4465.	2.2	544
752	Natural DNA-Modified Graphene/Pd Nanoparticles as Highly Active Catalyst for Formic Acid Electro-Oxidation and for the Suzuki Reaction. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5001-5009.	4.0	128

#	ARTICLE	IF	CITATIONS
753	Carbon Nanotube-Based Materials for Fuel Cell Applications. Australian Journal of Chemistry, 2012, 65, 1213.	0.5	31
754	Reduced-graphene oxide/molybdenum oxide/polyaniline ternary composite for high energy density supercapacitors: Synthesis and properties. Journal of Materials Chemistry, 2012, 22, 8314.	6.7	160
755	Influence of the exchange-correlation potential on the electrochemical properties of multicomponent silicate cathode materials. Electrochimica Acta, 2012, 80, 84-89.	2.6	10
756	Aging of Li ₂ FeSiO ₄ cathode material in fluorine containing organic electrolytes for lithium-ion batteries. Electrochimica Acta, 2012, 85, 66-71.	2.6	32
757	Anodic composite deposition of hydrous RuO ₂ •TiO ₂ nanocomposites for electrochemical capacitors. Electrochimica Acta, 2012, 85, 90-98.	2.6	14
758	Porous quasi three-dimensional nano-Mn ₃ O ₄ +PbO ₂ composite as supercapacitor electrode material. Electrochimica Acta, 2012, 83, 175-182.	2.6	30
759	Covalently bonded polyaniline/fullerene hybrids with coral-like morphology for high-performance supercapacitor. Electrochimica Acta, 2012, 85, 235-242.	2.6	79
760	Liquid crystalline phase synthesis of nanoporous MnO ₂ thin film arrays as an electrode material for electrochemical capacitors. Materials Research Bulletin, 2012, 47, 3120-3123.	2.7	8
761	Superwetting monolithic carbon with hierarchical structure as supercapacitor materials. Microporous and Mesoporous Materials, 2012, 163, 249-258.	2.2	28
762	High-performance three-dimensional nanoporous NiO film as a supercapacitor electrode. Journal of Materials Chemistry, 2012, 22, 11062.	6.7	284
763	Catalyst-free synthesis of iodine-doped graphene via a facile thermal annealing process and its use for electrocatalytic oxygen reduction in an alkaline medium. Chemical Communications, 2012, 48, 1027-1029.	2.2	336
764	Highly Efficient K _{0.15} MnO ₂ Birnessite Nanosheets for Stable Pseudocapacitive Cathodes. Journal of Physical Chemistry C, 2012, 116, 20173-20181.	1.5	65
765	Membraneless, Room-Temperature, Direct Borohydride/Cerium Fuel Cell with Power Density of Over 0.25 W/cm ² . Journal of the American Chemical Society, 2012, 134, 6076-6079.	6.6	71
766	Metal-free selenium doped carbon nanotube/graphene networks as a synergistically improved cathode catalyst for oxygen reduction reaction. Nanoscale, 2012, 4, 6455.	2.8	212
767	A comprehensive study on KOH activation of ordered mesoporous carbons and their supercapacitor application. Journal of Materials Chemistry, 2012, 22, 93-99.	6.7	343
768	Terephthalonitrile-derived nitrogen-rich networks for high performance supercapacitors. Energy and Environmental Science, 2012, 5, 9747.	15.6	171
769	Ordered Mesoporous Platinum@Graphitic Carbon Embedded Nanophase as a Highly Active, Stable, and Methanol-Tolerant Oxygen Reduction Electrocatalyst. Journal of the American Chemical Society, 2012, 134, 2236-2245.	6.6	208
770	Pseudocapacitive Lithium-Ion Storage in Oriented Anatase TiO ₂ Nanotube Arrays. Journal of Physical Chemistry C, 2012, 116, 11895-11899.	1.5	138

#	ARTICLE	IF	CITATIONS
771	Composition-Controlled PtCo Alloy Nanocubes with Tuned Electrocatalytic Activity for Oxygen Reduction. ACS Applied Materials & Interfaces, 2012, 4, 6228-6234.	4.0	103
772	Fuel Cells fuel cell (SOFC): Alternative Approaches fuel cell alternative approaches (Electrolytes,) Tj ETQq1 1 0.784314 rgBT /Qverlock 10		
773	Poly[Bis-EDOT-Isoindigo]: An Electroactive Polymer Applied to Electrochemical Supercapacitors. Macromolecules, 2012, 45, 8211-8220.	2.2	104
774	Polyacrylonitrile/graphene composite as a precursor to a sulfur-based cathode material for high-rate rechargeable Liâ€S batteries. Energy and Environmental Science, 2012, 5, 6966.	15.6	455
775	Fertilizer fertilizer/fertilizing Science fertilizer/fertilizing science and Technology fertilizer/fertilizing technology. , 2012, , 3768-3786.		4
776	A novel soft template strategy to fabricate mesoporous carbon/graphene composites as high-performance supercapacitor electrodes. RSC Advances, 2012, 2, 8359.	1.7	82
777	A new series of cross-linked (meth)acrylate polymer electrolytes for energy storage. Reactive and Functional Polymers, 2012, 72, 931-938.	2.0	15
778	Printable thin film supercapacitors utilizing single crystal cobalt hydroxidenanosheets. RSC Advances, 2012, 2, 1508-1515.	1.7	48
779	Design and Fabrication of Addressable Microfluidic Energy Storage MEMS Device. Journal of Microelectromechanical Systems, 2012, 21, 1392-1401.	1.7	6
780	Monolithic Carbons with Tailored Crystallinity and Porous Structure as Lithium-Ion Anodes for Fundamental Understanding Their Rate Performance and Cycle Stability. Journal of Physical Chemistry C, 2012, 116, 10303-10311.	1.5	38
781	Facile Synthesis of Surfactant-Free Au Cluster/Graphene Hybrids for High-Performance Oxygen Reduction Reaction. ACS Nano, 2012, 6, 8288-8297.	7.3	578
782	Structure and Properties of Polymer Electrolyte Membranes Containing Phosphonic Acids for Anhydrous Fuel Cells. Chemistry of Materials, 2012, 24, 115-122.	3.2	71
783	Synthesizing MnO₂ nanosheets from graphene oxide templates for high performance pseudosupercapacitors. Chemical Science, 2012, 3, 433-437.	3.7	194
784	Reduced graphene Oxideâ€MnO2 hollow sphere hybrid nanostructures as high-performance electrochemical capacitors. Journal of Materials Chemistry, 2012, 22, 25207.	6.7	120
785	Ion Exchange Technology I. , 2012, , .		13
786	Complex Ammine Titanium(III) Borohydrides as Advanced Solid Hydrogen-Storage Materials with Favorable Dehydrogenation Properties. Chemistry of Materials, 2012, 24, 3370-3379.	3.2	61
787	3D anatase TiO2 hollow microspheres assembled with high-energy {001} facets for lithium-ion batteries. RSC Advances, 2012, 2, 7901.	1.7	47
788	Fuel Cell fuel cell Types fuel cell types and Their Electrochemistry fuel cell electrochemistry. , 2012, , 3872-3886.		0

#	ARTICLE	IF	CITATIONS
789	Fallout Radionuclides and the Study of Erosion and Sedimentation. , 2012, , 3705-3768.		6
790	Controlled Synthesis of Carbon-Coated Cobalt Sulfide Nanostructures in Oil Phase with Enhanced Li Storage Performances. ACS Applied Materials & Interfaces, 2012, 4, 2999-3006.	4.0	137
791	Polyanilineâ€“MnO ₂ coaxial nanofiber with hierarchical structure for high-performance supercapacitors. Journal of Materials Chemistry, 2012, 22, 16939.	6.7	157
792	Highly Active Pt ₃ Pb and Coreâ€“Shell Pt ₃ Pbâ€“Pt Electrocatalysts for Formic Acid Oxidation. ACS Nano, 2012, 6, 2818-2825.	7.3	177
793	Globular reduced graphene oxide-metal oxide structures for energy storage applications. Energy and Environmental Science, 2012, 5, 5236-5240.	15.6	69
794	Facile synthesis of porous ZnOâ€“NiO composite micropolyhedrons and their application for high power supercapacitor electrode materials. Dalton Transactions, 2012, 41, 13284.	1.6	130
795	Development of plasmonic semiconductor nanomaterials with copper chalcogenides for a future with sustainable energy materials. Energy and Environmental Science, 2012, 5, 5564-5576.	15.6	334
796	Potential Applications of Carbon Nanotube Arrays. Nanoscience and Technology, 2012, , 255-290.	1.5	0
797	Numerical studies of laser cutting of an anode for lithium-ion batteries. , 2012, , .		2
798	The Role of Nanotechnology in Automotive Industries. , 0, , .		17
799	Solutionâ€“Based Synthesis and Design of Late Transition Metal Chalcogenide Materials for Oxygen Reduction Reaction (ORR). Small, 2012, 8, 13-27.	5.2	256
800	Electrocatalytic Oxygen Reduction by Iron Tetra-arylporphyrins Bearing Pendant Proton Relays. Journal of the American Chemical Society, 2012, 134, 5444-5447.	6.6	215
801	Controlled Synthesis and Energy Applications of Oneâ€“Dimensional Conducting Polymer Nanostructures: An Overview. Advanced Energy Materials, 2012, 2, 179-218.	10.2	329
802	Surface modification of metal oxide nanocrystals for improved supercapacitors. Energy and Environmental Science, 2012, 5, 7555.	15.6	33
803	Facile preparation of nitrogen-doped graphene as a metal-free catalyst for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2012, 14, 3381.	1.3	261
804	Mesoscale Simulation of Proton Transport in Proton Exchange Membranes. Journal of Physical Chemistry C, 2012, 116, 10476-10489.	1.5	51
805	Carbon-based nanostructured materials and their composites as supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 767-784.	6.7	672
806	Flexible Electronics: The Next Ubiquitous Platform. Proceedings of the IEEE, 2012, 100, 1486-1517.	16.4	822

#	ARTICLE	IF	CITATIONS
807	Nanostructured ternary composites of graphene/Fe ₂ O ₃ /polyaniline for high-performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 16844.	6.7	194
808	Single-crystalline NiCo ₂ O ₄ nanoneedle arrays grown on conductive substrates as binder-free electrodes for high-performance supercapacitors. <i>Energy and Environmental Science</i> , 2012, 5, 9453.	15.6	754
809	Multiscale design optimization of lithium ion batteries using adjoint sensitivity analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 92, 475-494.	1.5	52
810	Functionalization of reduced graphene oxides by redox-active ionic liquids for energy storage. <i>Chemical Communications</i> , 2012, 48, 6381.	2.2	16
811	Conductivity and Spectroscopic Investigation of Bis(trifluoromethanesulfonyl)imide Solution in Ionic Liquid 1-Butyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6553-6560.	1.2	23
812	Redox-Active Radical Polymers for a Totally Organic Rechargeable Battery. <i>ACS Symposium Series</i> , 2012, , 45-53.	0.5	13
813	Electrical energy storage for transportation—approaching the limits of, and going beyond, lithium-ion batteries. <i>Energy and Environmental Science</i> , 2012, 5, 7854.	15.6	2,086
814	An oxygen reduction electrocatalyst based on carbon nanotube-graphene complexes. <i>Nature Nanotechnology</i> , 2012, 7, 394-400.	15.6	1,533
815	In situ synthesis of SnS ₂ @graphene nanocomposites for rechargeable lithium batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 9494.	6.7	105
816	Materials for Rechargeable Lithium-Ion Batteries. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2012, 3, 445-471.	3.3	225
817	Surface Chemistry of Ruthenium Dioxide in Heterogeneous Catalysis and Electrocatalysis: From Fundamental to Applied Research. <i>Chemical Reviews</i> , 2012, 112, 3356-3426.	23.0	580
818	An Overview of the Applications of Graphene-Based Materials in Supercapacitors. <i>Small</i> , 2012, 8, 1805-1834.	5.2	1,210
819	Formation of Hierarchically Porous Metal Oxide and Metal Monoliths by Nanocasting into Silica Monoliths. <i>Advanced Engineering Materials</i> , 2012, 14, 1059-1073.	1.6	35
820	A High Energy Density Asymmetric Supercapacitor from Nano-architected Ni(OH) ₂ /Carbon Nanotube Electrodes. <i>Advanced Functional Materials</i> , 2012, 22, 1272-1278.	7.8	803
821	Mesoporous Carbon Incorporated Metal Oxide Nanomaterials as Supercapacitor Electrodes. <i>Advanced Materials</i> , 2012, 24, 4197-4202.	11.1	548
822	Recent Progress in Non-Precious Catalysts for Metal-Air Batteries. <i>Advanced Energy Materials</i> , 2012, 2, 816-829.	10.2	652
823	The Current Move of Lithium Ion Batteries Towards the Next Phase. <i>Advanced Energy Materials</i> , 2012, 2, 860-872.	10.2	611
824	Facile Synthesis of Nitrogen-Doped Graphene via Pyrolysis of Graphene Oxide and Urea, and its Electrocatalytic Activity toward the Oxygen-Reduction Reaction. <i>Advanced Energy Materials</i> , 2012, 2, 884-888.	10.2	840

#	ARTICLE	IF	CITATIONS
826	Enhanced Electrochemical Capacitive Properties of Nickel-Cobalt Oxide Nano-flakes Materials. Chinese Journal of Chemistry, 2012, 30, 570-576.	2.6	5
827	Hydrogen Peroxide Sensor Based on Carbon Nanotubes/ $\text{Ni}(\text{OH})_2$ Nanocomposites. Chinese Journal of Chemistry, 2012, 30, 501-506.	2.6	6
828	Nanocomposites of $\text{Ni}(\text{OH})_2$ /Reduced Graphene Oxides with Controllable Composition, Size, and Morphology: Performance Variations as Pseudocapacitor Electrodes. ChemPlusChem, 2012, 77, 807-816.	1.3	39
829	Electrodes of Poly(N-methyl pyrrole)/Au and Poly(m-aminobenzene sulfonic) Tj ETQq1 1 0.784314 rgBT /Overlock 100 T. Chinese Journal of Chemistry, 2012, 77, 789-798.	1.3	10
830	On the Configuration of Supercapacitors for Maximizing Electrochemical Performance. ChemSusChem, 2012, 5, 818-841.	3.6	429
831	Supercapacitors based on high-quality graphene scrolls. Nanoscale, 2012, 4, 3997.	2.8	87
832	Arrays of ultrafine CuS nanoneedles supported on a CNT backbone for application in supercapacitors. Journal of Materials Chemistry, 2012, 22, 7851.	6.7	253
833	Sandwich-structured TiO_2 -Pt-graphene ternary hybrid electrocatalysts with high efficiency and stability. Journal of Materials Chemistry, 2012, 22, 16499.	6.7	112
834	Synthesis of a porous birnessite manganese dioxide hierarchical structure using thermally reduced graphene oxide paper as a sacrificing template for supercapacitor application. New Journal of Chemistry, 2012, 36, 1490.	1.4	45
835	Carbon Nanotubes Applications: Solar and Fuel Cells, Hydrogen Storage, Lithium Batteries, Supercapacitors, Nanocomposites, Gas, Pathogens, Dyes, Heavy Metals and Pesticides. Environmental Chemistry for A Sustainable World, 2012, , 3-46.	0.3	13
836	Ionic aggregation characterization of sulfonated PEEK ionomers using by X-ray and DMA techniques. Macromolecular Research, 2012, 20, 477-483.	1.0	25
837	Significantly enhanced rate capability in supercapacitors using carbide-derived carbons electrode with superior microstructure. Journal of Solid State Electrochemistry, 2012, 16, 1263-1270.	1.2	9
838	Comparison of different soft chemical routes synthesis of submicro- LiMn_2O_4 and their influence on its electrochemical properties. Journal of Solid State Electrochemistry, 2012, 16, 1551-1559.	1.2	15
839	Nanostructured Fe_2O_3 -graphene composite as a novel electrode material for supercapacitors. Journal of Solid State Electrochemistry, 2012, 16, 2095-2102.	1.2	174
840	Rechargeable batteries: challenges old and new. Journal of Solid State Electrochemistry, 2012, 16, 2019-2029.	1.2	310
841	High temperature and low current density synthesis of Mn_3O_4 porous nano spheres: Characterization and electrochemical properties. Current Applied Physics, 2012, 12, 544-549.	1.1	55
842	Mesoporous tungsten carbide-supported platinum as carbon monoxide-tolerant electrocatalyst for methanol oxidation. International Journal of Hydrogen Energy, 2012, 37, 4704-4709.	3.8	25
843	Double cross-linked polyetheretherketone proton exchange membrane for fuel cell. International Journal of Hydrogen Energy, 2012, 37, 6148-6152.	3.8	24

#	ARTICLE	IF	CITATIONS
844	Partly fluorinated poly(arylene ether ketone sulfone) hydrophilic-hydrophobic multiblock copolymers for fuel cell membranes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6132-6139.	3.8	60
845	Electrochemical deposition of Au-Pt alloy particles with cauliflower-like microstructures for electrocatalytic methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4088-4097.	3.8	96
846	Structural evolution of multi-walled carbon nanotube/MnO ₂ composites as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2012, 59, 548-557.	2.6	52
847	Microwave synthesis and electrochemical performance of a PtPb alloy catalyst for methanol and formic acid oxidation. <i>Electrochimica Acta</i> , 2012, 63, 346-353.	2.6	41
848	Fabrication of polyaniline/mesoporous carbon/MnO ₂ ternary nanocomposites and their enhanced electrochemical performance for supercapacitors. <i>Electrochimica Acta</i> , 2012, 71, 27-32.	2.6	75
849	Hybridization of rechargeable batteries and electrochemical capacitors: Principles and limits. <i>Electrochimica Acta</i> , 2012, 72, 1-17.	2.6	325
850	Microwave-assisted microemulsion synthesis of carbon supported Pt-WO ₃ nanoparticles as an electrocatalyst for methanol oxidation. <i>Electrochimica Acta</i> , 2012, 75, 262-272.	2.6	34
851	Synthesis of active iron-based electrocatalyst for the oxygen reduction reaction and its unique electrochemical response in alkaline medium. <i>Electrochimica Acta</i> , 2012, 76, 430-439.	2.6	23
852	Fine tuning of the supercapacitive performance of nanoporous carbon electrodes with different pore diameters. <i>Electrochimica Acta</i> , 2012, 77, 256-261.	2.6	30
853	Synthesis of carbon nanowires as electrochemical electrode materials. <i>Materials Letters</i> , 2012, 69, 55-58.	1.3	15
854	Low-temperature route to dispersed manganese dioxide nanorods. <i>Materials Letters</i> , 2012, 78, 202-204.	1.3	3
855	Comparative study of different fuel cell technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 981-989.	8.2	657
856	Three-dimensional bicontinuous nanoporous Au/polyaniline hybrid films for high-performance electrochemical supercapacitors. <i>Journal of Power Sources</i> , 2012, 197, 325-329.	4.0	100
857	Exfoliated graphite nanoplatelets-V ₂ O ₅ nanotube composite electrodes for supercapacitors. <i>Journal of Power Sources</i> , 2012, 203, 227-232.	4.0	112
858	A novel redox-mediated gel polymer electrolyte for high-performance supercapacitor. <i>Journal of Power Sources</i> , 2012, 198, 402-407.	4.0	266
859	Stabilities and electronic properties of lithium titanium oxide anode material for lithium ion battery. <i>Journal of Power Sources</i> , 2012, 198, 318-321.	4.0	29
860	Few-layer SnS ₂ /graphene hybrid with exceptional electrochemical performance as lithium-ion battery anode. <i>Journal of Power Sources</i> , 2012, 201, 259-266.	4.0	251
861	Cross-linked tri-side chains poly(arylene ether ketone)s containing pendant alkylsulfonic acid groups for proton exchange membranes. <i>Journal of Power Sources</i> , 2012, 201, 142-150.	4.0	21

#	ARTICLE	IF	CITATIONS
862	Quasi-Solid-State Dye-Sensitized Solar Cells made with poly(3,4-ethylenedioxythiophene)-functionalized counter-electrodes. Journal of Power Sources, 2012, 203, 302-307.	4.0	29
863	Influence of nitric acid modification of ordered mesoporous carbon materials on their capacitive performances in different aqueous electrolytes. Journal of Power Sources, 2012, 204, 220-229.	4.0	142
864	Using eggshell membrane as a separator in supercapacitor. Journal of Power Sources, 2012, 206, 463-468.	4.0	101
865	Computational and experimental studies of laser cutting of the current collectors for lithium-ion batteries. Journal of Power Sources, 2012, 210, 327-338.	4.0	54
866	In situ synthesis of polyaniline/sodium carboxymethyl cellulose nanorods for high-performance redox supercapacitors. Journal of Power Sources, 2012, 211, 40-45.	4.0	103
867	Indigo carmine (IC) doped polypyrrole (PPy) as a free-standing polymer electrode for lithium secondary battery application. Solid State Ionics, 2012, 215, 29-35.	1.3	29
868	Study of local structure and Li dynamics in Li_4O_{12}		

#	ARTICLE	IF	CITATIONS
880	Electrochemical characterisation of a Zn/(PEO)4ZnCl2/Nb2O5 solid-state cell. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 665-671.	1.2	7
881	Supercapacitor and nanoscale research towards electrochemical energy storage. <i>International Journal of Smart and Nano Materials</i> , 2013, 4, 2-26.	2.0	57
882	Cocontinuous morphology in vinylidene fluoride based polymers/poly(ethylene oxide) blends. <i>Journal of Applied Polymer Science</i> , 2013, 128, 265-274.	1.3	8
883	Facile synthesis and excellent electrochemical properties of NiCo2O4 spinel nanowire arrays as a bifunctional catalyst for the oxygen reduction and evolution reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12170.	5.2	286
884	Fluorinated/non-fluorinated sulfonated polynaphthalimides as proton exchange membranes. <i>Macromolecular Research</i> , 2013, 21, 484-492.	1.0	7
885	Morphology-Dependent Enhancement of the Pseudocapacitance of Template-Guided Tunable Polyaniline Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15009-15019.	1.5	103
886	Energy Storage on Ultrahigh Surface Area Activated Carbon Fibers Derived from PMIA. <i>ChemSusChem</i> , 2013, 6, 1406-1413.	3.6	19
887	Direct growth of NiCo2O4 nanostructures on conductive substrates with enhanced electrocatalytic activity and stability for methanol oxidation. <i>Nanoscale</i> , 2013, 5, 7388.	2.8	290
888	Graphene/polypyrrole nanofiber nanocomposite as electrode material for electrochemical supercapacitor. <i>Polymer</i> , 2013, 54, 1033-1042.	1.8	161
889	Potential-Dependent Adsorption and Desorption of Perfluorosulfonated Ionomer on a Platinum Electrode Surface Probed by Electrochemical Quartz Crystal Microbalance and Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15704-15709.	1.5	48
890	Proton Conductivity under Dry Conditions for Mesoporous Silica with Highly Dense Sulfonic Acid Groups. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8727-8736.	1.5	15
891	Nanoscale Dielectric Capacitors Composed of Graphene and Boron Nitride Layers: A First-Principles Study of High Capacitance at Nanoscale. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15327-15334.	1.5	45
892	Mesoporous LaNiO3/NiO nanostructured thin films for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9730.	5.2	40
893	Nitrogen-doped ordered mesoporous carbons synthesized from honey as metal-free catalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013, 108, 10-16.	2.6	73
894	Nanocomposite of Polyaniline Nanorods Grown on Graphene Nanoribbons for Highly Capacitive Pseudocapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6622-6627.	4.0	171
895	Facile synthesis of hybrid graphene and carbon nanotubes as a metal-free electrocatalyst with active dual interfaces for efficient oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9603.	5.2	40
896	Electrospun nanofiber-coated separator membranes for lithium-ion rechargeable batteries. <i>Journal of Applied Polymer Science</i> , 2013, 129, 1939-1951.	1.3	86
897	Flexible Supercapacitors – Development of Bendable Carbon Architectures. <i>ACS Symposium Series</i> , 2013, , 101-141.	0.5	5

#	ARTICLE	IF	CITATIONS
898	MWCNTs/metal (Ni, Co, Fe) oxide nanocomposite as potential material for supercapacitors application in acidic and neutral media. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1311-1320.	1.2	21
899	One-Step Fabrication of Ultrathin Porous Nickel Hydroxide-Manganese Dioxide Hybrid Nanosheets for Supercapacitor Electrodes with Excellent Capacitive Performance. <i>Advanced Energy Materials</i> , 2013, 3, 1636-1646.	10.2	342
900	Large scale synthesized sulphonated reduced graphene oxide: a high performance material for electrochemical capacitors. <i>RSC Advances</i> , 2013, 3, 14954.	1.7	16
901	Catalytic Materials and Processes in Secondary Lithium-ion Batteries. , 2013, , 479-498.		2
902	Efficient reduction of graphene oxide using Tin-powder and its electrochemical performances for use as an energy storage electrode material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11320.	5.2	15
903	Perspective: hybrid systems combining electrostatic and electrochemical nanostructures for ultrahigh power energy storage. <i>Energy and Environmental Science</i> , 2013, 6, 2578.	15.6	32
904	Multi-Thousand-Atom DFT Simulation of Li-Ion Transfer through the Boundary between the Solid-Electrolyte Interface and Liquid Electrolyte in a Li-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17960-17968.	1.5	23
905	Engineering nanostructured anodes via electrostatic spray deposition for high performance lithium ion battery application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 165-182.	5.2	163
906	Functional Polyolefins for Energy Applications. <i>Macromolecules</i> , 2013, 46, 6671-6698.	2.2	142
907	Graphene-Assisted Room-Temperature Synthesis of 2D Nanostructured Hybrid Electrode Materials: Dramatic Acceleration of the Formation Rate of 2D Metal Oxide Nanoplates Induced by Reduced Graphene Oxide Nanosheets. <i>Chemistry - A European Journal</i> , 2013, 19, 7109-7117.	1.7	19
908	Polymer template-assisted microemulsion synthesis of large surface area, porous Li ₂ MnO ₃ and its characterization as a positive electrode material of Li-ion cells. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 3125-3136.	1.2	13
909	Electronic Effect in Methanol Dehydrogenation on Pt Surfaces: Potential Control during Methanol Electrooxidation. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2931-2936.	2.1	22
910	Mechanism of formation and electrochemical performance of carbide-derived carbons obtained from different carbides. <i>Carbon</i> , 2013, 64, 444-455.	5.4	24
911	Can all nitrogen-doped defects improve the performance of graphene anode materials for lithium-ion batteries?. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16819.	1.3	247
912	Preparation of Carbonaceous Materials in Fused Carbonate Salts. , 2013, , 331-354.		1
913	A coaxial single fibre supercapacitor for energy storage. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12215.	1.3	96
914	Oxygen Reduction Reaction in Room Temperature Protic Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18334-18342.	1.5	62
915	High-performance supercapacitor and lithium-ion battery based on 3D hierarchical NH ₄ F-induced nickel cobaltate nanosheet-nanowire cluster arrays as self-supported electrodes. <i>Nanoscale</i> , 2013, 5, 9812.	2.8	242

#	ARTICLE	IF	CITATIONS
916	Intrinsically Stretchable Supercapacitors Composed of Polypyrrole Electrodes and Highly Stretchable Gel Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9008-9014.	4.0	190
917	The rods-like manganese dioxide films grown on nickel foam for electrochemical capacitor applications. <i>Russian Journal of Electrochemistry</i> , 2013, 49, 975-982.	0.3	3
918	A First-Principles Study of the Role of Quaternary-N Doping on the Oxygen Reduction Reaction Activity and Selectivity of Graphene Edge Sites. <i>Topics in Catalysis</i> , 2013, 56, 1623-1633.	1.3	67
919	Critical electronic structures controlling phase transitions induced by lithium ion intercalation in molybdenum disulphide. <i>Science Bulletin</i> , 2013, 58, 1632-1641.	1.7	44
920	Supercapacitor performance of hollow carbon spheres by direct pyrolysis of melamine-formaldehyde resin spheres. <i>Chemical Research in Chinese Universities</i> , 2013, 29, 735-742.	1.3	14
921	Suppression of energy dissipation and enhancement of breakdown strength in ferroelectric polymer-graphene percolative composites. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7034.	2.7	78
922	Nickel hydroxide ultrathin nanosheets as building blocks for electrochemically active layers. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11429.	5.2	23
923	Mild chemical strategy to grow micro-roses and micro-woolen like arranged CuO nanosheets for high performance supercapacitors. <i>Journal of Power Sources</i> , 2013, 242, 687-698.	4.0	200
924	Cable-type Supercapacitors of Three-dimensional Cotton Thread Based Multi-grade Nanostructures for Wearable Energy Storage. <i>Advanced Materials</i> , 2013, 25, 4925-4931.	11.1	267
925	High-energy-density nonaqueous MnO ₂ @nanoporous gold based supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9202.	5.2	84
926	The mechanochemical synthesis of poly(3,4-ethylenedioxy-2,2,5,2,2-terthiophene)/graphene nanoplatelet composites and the electrochemical performance. <i>Electrochimica Acta</i> , 2013, 113, 382-389.	2.6	7
927	Preparation and capacitance properties of graphene/NiAl layered double-hydroxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2013, 396, 251-257.	5.0	73
928	Fabrication of iron phthalocyanine/graphene micro/nanocomposite by solvothermally assisted layer-by-layer assembling method and its application for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2013, 106, 272-278.	2.6	67
929	Hybrid Composite Ni(OH) ₂ @NiCo ₂ O ₄ Grown on Carbon Fiber Paper for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11159-11162.	4.0	181
930	Assembling fabrication and capacitance of manganese oxide nanosheets and functionalized carbon nanotubes hybrid material. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 429, 91-97.	2.3	14
931	Dual-templating fabrication of three-dimensionally ordered macroporous ceria with hierarchical pores and its use as a support for enhanced catalytic performance of preferential CO oxidation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4445-4455.	3.8	23
932	Graphene decorated with Pd nanoparticles via electrostatic self-assembly: A highly active alcohol oxidation electrocatalyst. <i>Electrochimica Acta</i> , 2013, 109, 276-282.	2.6	26
933	Mo ₂ N/C hybrid material as a promising support for the electro-oxidation of methanol and formic acid. <i>Electrochemistry Communications</i> , 2013, 33, 63-67.	2.3	25

#	ARTICLE	IF	CITATIONS
934	Criteria appointing the highest acceptable cell voltage of asymmetric supercapacitors. <i>Electrochemistry Communications</i> , 2013, 27, 81-84.	2.3	60
935	The synthesis of shape-controlled MnO ₂ /graphene composites via a facile one-step hydrothermal method and their application in supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12818.	5.2	148
936	Enhanced electrochemical performance of MWNT@MnO ₂ composites in polymerized ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18987.	1.3	1
937	Graphene/polypyrrole intercalating nanocomposites as supercapacitors electrode. <i>Electrochimica Acta</i> , 2013, 112, 44-52.	2.6	220
938	Covalent functionalization based heteroatom doped graphene nanosheet as a metal-free electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2013, 5, 12255.	2.8	73
939	Morphology-controlled fabrication of hierarchical mesoporous NiCo ₂ O ₄ micro-/nanostructures and their intriguing application in electrochemical capacitors. <i>RSC Advances</i> , 2013, 3, 23709.	1.7	19
940	Hydrothermal synthesis and electrochemical performance of Co ₃ O ₄ /reduced graphene oxide nanosheet composites for supercapacitors. <i>Electrochimica Acta</i> , 2013, 112, 120-126.	2.6	100
941	Integrated Solid/Nanoporous Copper/Oxide Hybrid Bulk Electrodes for High-performance Lithium-Ion Batteries. <i>Scientific Reports</i> , 2013, 3, 2878.	1.6	53
942	Mesoporous N-containing carbon nanosheets towards high-performance electrochemical capacitors. <i>Carbon</i> , 2013, 64, 141-149.	5.4	82
943	An insight into coordination ability of dicyanoimidazolato anions toward lithium in presence of acetonitrile. Crystal structures of novel lithium battery electrolyte salts. <i>Polyhedron</i> , 2013, 51, 111-116.	1.0	18
944	Graphene Analogues of Inorganic Layered Materials. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13162-13185.	7.2	441
945	Electrochemical and Spectroelectrochemical Evidence of Redox Transitions Involving Protons in Thin MnO ₂ Electrodes in Protic Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20397-20405.	1.5	23
946	One-step synthesis of boron and nitrogen-dual-self-doped graphene sheets as non-metal catalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14700.	5.2	107
947	Self-assembled three-dimensional interpenetrating porous graphene aerogels with MnO ₂ coating and their application as high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2013, 37, 4199.	1.4	20
948	One step hydrothermal synthesis of a carbon nanotube/cerium oxide nanocomposite and its electrochemical properties. <i>Nanotechnology</i> , 2013, 24, 365401.	1.3	65
949	Nanoenergy. , 2013, , .		5
950	Preparation of Chitosan-Based Activated Carbon and Its Electrochemical Performance for EDLC. <i>Journal of the Electrochemical Society</i> , 2013, 160, H321-H326.	1.3	23
951	Î ² -Ketoenamine-Linked Covalent Organic Frameworks Capable of Pseudocapacitive Energy Storage. <i>Journal of the American Chemical Society</i> , 2013, 135, 16821-16824.	6.6	949

#	ARTICLE	IF	CITATIONS
952	Porous CuO nanosheet clusters prepared by a surfactant assisted hydrothermal method for high performance supercapacitors. RSC Advances, 2013, 3, 24099.	1.7	68
953	Metallic VS ₂ Monolayer: A Promising 2D Anode Material for Lithium Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 25409-25413.	1.5	576
954	Selective Growth of MoS ₂ for Proton Exchange Membranes with Extremely High Selectivity. ACS Applied Materials & Interfaces, 2013, 5, 13042-13049.	4.0	65
955	Poly(ethylene oxide)-co-Poly(propylene oxide)-Based Gel Electrolyte with High Ionic Conductivity and Mechanical Integrity for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 8477-8485.	4.0	134
956	Optimization of PEDOT Films in Ionic Liquid Supercapacitors: Demonstration As a Power Source for Polymer Electrochromic Devices. ACS Applied Materials & Interfaces, 2013, 5, 13432-13440.	4.0	114
957	IrO ₂ -graphene hybrid as an active oxygen evolution catalyst for water electrolysis. International Journal of Hydrogen Energy, 2013, 38, 9217-9222.	3.8	37
958	Effect of nanosized Mg _{0.6} Ni _{0.4} O prepared by self-propagating high temperature synthesis on sulfur cathode performance in Li/S batteries. Powder Technology, 2013, 235, 248-255.	2.1	72
959	A density functional theory study on oxygen reduction reaction on nitrogen-doped graphene. Journal of Molecular Modeling, 2013, 19, 5515-5521.	0.8	42
961	Carbon nanomaterials for high-performance supercapacitors. Materials Today, 2013, 16, 272-280.	8.3	581
962	Nanostructured TiO ₂ for energy conversion and storage. RSC Advances, 2013, 3, 24758.	1.7	105
963	Composition and Growth Behavior of the Surface and Electrolyte Decomposition Layer of/on a Commercial Lithium Ion Battery Li _x Ni _{1/3} Mn _{1/3} Co _{1/3} O ₂ Cathode Determined by Sputter Depth Profile X-ray Photoelectron Spectroscopy. Langmuir, 2013, 29, 15813-15821.	1.6	83
964	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. Scientific Reports, 2013, 3, 2975.	1.6	541
965	Facile synthesis of hollow Co ₃ O ₄ boxes for high capacity supercapacitor. Journal of Power Sources, 2013, 227, 101-105.	4.0	250
966	Synthesis of size-controllable Pt nanoparticles decorated-poly(m-phenylenediamine) and its high catalytic activity for methanol oxidation. Synthetic Metals, 2013, 185-186, 56-60.	2.1	3
967	Nitrogen-doped carbon based on peptides of hair as electrode materials for supercapacitors. Electrochimica Acta, 2013, 113, 620-627.	2.6	51
968	Influence of pore structures on the electrochemical performance of asphaltene-based ordered mesoporous carbons. Microporous and Mesoporous Materials, 2013, 174, 67-73.	2.2	34
969	High Energy Density Metal-Air Batteries: A Review. Journal of the Electrochemical Society, 2013, 160, A1759-A1771.	1.3	569
970	Flexible hierarchical nanocomposites based on MnO ₂ nanowires/CoAl hydrotalcite/carbon fibers for high-performance supercapacitors. RSC Advances, 2013, 3, 1045-1049.	1.7	75

#	ARTICLE	IF	CITATIONS
971	Preparation and electrochemical performances of nanostructured $\text{Co}_x\text{Ni}_{1-x}(\text{OH})_2$ composites for supercapacitors. <i>Journal of Power Sources</i> , 2013, 240, 338-343.	4.0	52
972	Morphology and property control of NiO nanostructures for supercapacitor applications. <i>Nanoscale Research Letters</i> , 2013, 8, 363.	3.1	103
973	Recent advances in application of chitosan in fuel cells. <i>Sustainable Chemical Processes</i> , 2013, 1, .	2.3	85
974	Structures and electronic properties of neutral $(\text{CuS})_N$ clusters ($N=1-6$): A DFT approach. <i>Chemical Physics Letters</i> , 2013, 570, 132-135.	1.2	20
975	Template-mediated growth of microsphere, microbelt and nanorod Zn-MoO_3 structures and their high pseudo-capacitances. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12926.	5.2	47
976	Porous nickel cobaltite nanorods: desired morphology inherited from coordination precursors and improved supercapacitive properties. <i>RSC Advances</i> , 2013, 3, 15382.	1.7	27
977	Chelate resin self-assembled quaternary Co-Ni-P-C catalyst for oxygen reduction reaction. <i>RSC Advances</i> , 2013, 3, 14686.	1.7	17
978	Facile synthesis and superior supercapacitor performances of $\text{Ni}_2\text{P}/\text{rGO}$ nanoparticles. <i>RSC Advances</i> , 2013, 3, 4628.	1.7	137
979	Superior electric storage in dealloyed and anodic oxidized Ti-Ni-Si glassy alloy ribbons. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 477-480.	1.2	13
980	Hybrid ternary rice paper-manganese oxide-carbon nanotube nanocomposites for flexible supercapacitors. <i>Nanoscale</i> , 2013, 5, 11108.	2.8	33
981	Facile synthesis of a Bi-modified PtRu catalyst for methanol and ethanol electro-oxidation in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3250-3256.	3.8	26
982	Facile fabrication of self-assembled polyaniline nanotubes doped with d-tartaric acid for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2013, 242, 797-802.	4.0	67
983	Synthesis of amino-functionalized graphene as metal-free catalyst and exploration of the roles of various nitrogen states in oxygen reduction reaction. <i>Nano Energy</i> , 2013, 2, 88-97.	8.2	426
984	Hollow, Spherical Nitrogen-Rich Porous Carbon Shells Obtained from a Porous Organic Framework for the Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10280-10287.	4.0	199
985	Synthesis and electrochemical performance of a single walled carbon nanohorn- Fe_3O_4 nanocomposite supercapacitor electrode. <i>RSC Advances</i> , 2013, 3, 21390-21393.	1.7	35
986	1-Dimensional confinement of porous polyethylenedioxythiophene using carbon nanofibers as a solid template: an efficient charge storage material with improved capacitance retention and cycle stability. <i>RSC Advances</i> , 2013, 3, 11877.	1.7	25
987	Effect of surfactant on the morphology and capacitive performance of porous NiCo_2O_4 . <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1463-1471.	1.2	26
988	Large-scale preparation of shape controlled SnO and improved capacitance for supercapacitors: from nanoclusters to square microplates. <i>Nanoscale</i> , 2013, 5, 7613.	2.8	28

#	ARTICLE	IF	CITATIONS
989	Mesoporous chromium nitride as a high performance non-carbon support for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7041.	1.3	49
990	Synthesis and capacitive performance of two-dimensional sandwich-like graphene/nitrogen-doped carbon nanoparticle composites with tunable textural parameters and nitrogen content. <i>New Journal of Chemistry</i> , 2013, 37, 4148.	1.4	12
991	Organometallic approach for the synthesis of nanostructures. <i>New Journal of Chemistry</i> , 2013, 37, 3374.	1.4	127
992	Polyaniline/carbon nanotube nanocomposite electrodes with biomimetic hierarchical structure for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14719.	5.2	75
993	PH-driven dissolution-precipitation: a novel route toward ultrathin Ni(OH) ₂ nanosheets array on nickel foam as binder-free anode for Li-ion batteries with ultrahigh capacity. <i>CrystEngComm</i> , 2013, 15, 8300.	1.3	49
994	A silica co-electrodeposition route to highly active Ni-based film electrodes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12885.	5.2	25
995	Two-Dimensional $\hat{\Gamma}^2$ -MnO ₂ Nanowire Network with Enhanced Electrochemical Capacitance. <i>Scientific Reports</i> , 2013, 3, 2193.	1.6	83
997	An efficient Ag-ionomer interface for hydroxide exchange membrane fuel cells. <i>Chemical Communications</i> , 2013, 49, 131-133.	2.2	113
998	Asymmetric supercapacitors with dominant pseudocapacitance based on manganese oxide nanoflowers in a neutral aqueous electrolyte. <i>RSC Advances</i> , 2013, 3, 24886.	1.7	9
999	Self-assembly of NiO nanoparticles in lignin-derived mesoporous carbons for supercapacitor applications. <i>Green Chemistry</i> , 2013, 15, 3057.	4.6	118
1000	Ultrahigh-performance nonaqueous electric double-layer capacitors using an activated carbon composite electrode with alginate. <i>RSC Advances</i> , 2013, 3, 1037-1040.	1.7	23
1001	Nitrogen-doped graphene-vanadium carbide hybrids as a high-performance oxygen reduction reaction electrocatalyst support in alkaline media. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13404.	5.2	50
1002	Facile preparation of transition metal oxide-metal composites with unique nanostructures and their electrochemical performance as energy storage material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14246.	5.2	16
1003	Spherical concentration-gradient LiMn _{1.87} Ni _{0.13} O ₄ spinel as a high performance cathode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4010.	5.2	62
1004	Macroporous LiFePO ₄ as a cathode for an aqueous rechargeable lithium battery of high energy density. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14713.	5.2	78
1005	Architectural design of hierarchically ordered porous carbons for high-rate electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2886.	5.2	68
1006	One-step fabrication of Sn _x Ti _{1-x} O ₂ rutile-type core-shell microspheres and their electrochemical properties. <i>Crystal Research and Technology</i> , 2013, 48, 538-545.	0.6	2
1007	Cost analysis of supercapacitor cell production. , 2013, , .		9

#	ARTICLE	IF	CITATIONS
1008	Synthesis and electrochemical performance of polyaniline@MnO ₂ nanowire composites for supercapacitors. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 360-365.	1.9	74
1009	Mononuclear iron hydrogenase. <i>Coordination Chemistry Reviews</i> , 2013, 257, 42-63.	9.5	79
1010	Graphene-beaded carbon nanofibers for use in supercapacitor electrodes: Synthesis and electrochemical characterization. <i>Journal of Power Sources</i> , 2013, 222, 410-416.	4.0	159
1011	Synthesis of sulfonated (ether ether ketone) based membranes containing poly(4-styrenesulfonic acid) and its excellent performance for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2013, 224, 132-138.	4.0	14
1012	Self-organized amorphous TiO ₂ nanotube arrays on porous Ti foam for rechargeable lithium and sodium ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 461-466.	4.0	235
1013	Synthesis of large surface area carbon xerogels for electrochemical double layer capacitors. <i>Journal of Power Sources</i> , 2013, 223, 147-154.	4.0	37
1014	Ultrahigh capacitance of nanoporous metal enhanced conductive polymer pseudocapacitors. <i>Journal of Power Sources</i> , 2013, 225, 304-310.	4.0	52
1015	Synthesis of nitrogen doped graphene with high electrocatalytic activity toward oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2013, 28, 24-26.	2.3	214
1016	In situ polymerization and characterization of grafted poly (3,4-ethylenedioxythiophene)/multiwalled carbon nanotubes composite with high electrochemical performances. <i>Electrochimica Acta</i> , 2013, 87, 394-400.	2.6	61
1017	A New Partially Reduced Graphene Oxide Nanosheet/Polyaniline Nanowafer Hybrid as Supercapacitor Electrode Material. <i>Energy & Fuels</i> , 2013, 27, 568-575.	2.5	132
1018	Ionic conductivity studies and dielectric studies of Poly(styrene sulphonic acid)/starch blend polymer electrolyte containing LiClO ₄ . <i>Journal of Applied Electrochemistry</i> , 2013, 43, 21-29.	1.5	24
1019	Nanostructured carbon@metal oxide composite electrodes for supercapacitors: a review. <i>Nanoscale</i> , 2013, 5, 72-88.	2.8	1,853
1020	Morphology-controllable synthesis of MnO ₂ hollow nanospheres and their supercapacitive performance. <i>New Journal of Chemistry</i> , 2013, 37, 722.	1.4	68
1021	Nanostructured metal chalcogenides: synthesis, modification, and applications in energy conversion and storage devices. <i>Chemical Society Reviews</i> , 2013, 42, 2986.	18.7	1,393
1022	Flexible asymmetric supercapacitors with high energy and high power density in aqueous electrolytes. <i>Nanoscale</i> , 2013, 5, 1067-1073.	2.8	188
1023	A reduced graphene oxide/Co ₃ O ₄ composite for supercapacitor electrode. <i>Journal of Power Sources</i> , 2013, 226, 65-70.	4.0	485
1024	3D carbon based nanostructures for advanced supercapacitors. <i>Energy and Environmental Science</i> , 2013, 6, 41-53.	15.6	1,389
1025	High speed remote laser cutting of electrodes for lithium-ion batteries: Anode. <i>Journal of Power Sources</i> , 2013, 240, 368-380.	4.0	54

#	ARTICLE	IF	CITATIONS
1026	On the Synergetic Catalytic Effect in Heterogeneous Nanocomposite Catalysts. <i>Chemical Reviews</i> , 2013, 113, 2139-2181.	23.0	558
1027	FeCo@Nx embedded graphene as high performance catalysts for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2013, 130-131, 143-151.	10.8	169
1028	Evolution of Strategies for Modern Rechargeable Batteries. <i>Accounts of Chemical Research</i> , 2013, 46, 1053-1061.	7.6	707
1029	A simple cysteine-assisted method for the growth of MoS ₂ nanosheets on carbon nanotubes for high-performance lithium ion batteries. <i>Dalton Transactions</i> , 2013, 42, 2399-2405.	1.6	131
1030	Electrochemical performance and thermal stability of GaF ₃ -coated LiNi _{0.5} Mn _{1.5} O ₄ as 5ÅV cathode materials for lithium ion batteries. <i>Journal of Materials Science</i> , 2013, 48, 625-635.	1.7	37
1031	Different types of MnO ₂ recovered from spent LiMn ₂ O ₄ batteries and their application in electrochemical capacitors. <i>Journal of Materials Science</i> , 2013, 48, 2512-2519.	1.7	16
1032	Mesoporous thin films: properties and applications. <i>Chemical Society Reviews</i> , 2013, 42, 4198.	18.7	267
1033	Ion Size to Pore Width Ratio as a Factor that Determines the Electrochemical Stability Window of Activated Carbon Electrodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A629-A635.	1.3	21
1034	Carbonyl Cyclodextrin as a Novel Binder for Sulfur Composite Cathodes in Rechargeable Lithium Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 1194-1201.	7.8	240
1035	Facile synthesis of hollow sphere amorphous MnO ₂ : the formation mechanism, morphology and effect of a bivalent cation-containing electrolyte on its supercapacitive behavior. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4300.	5.2	127
1036	Porous Organic Framework Templated Nitrogen Rich Porous Carbon as a More Proficient Electrocatalyst than Pt/C for the Electrochemical Reduction of Oxygen. <i>Chemistry - A European Journal</i> , 2013, 19, 974-980.	1.7	91
1037	Graphene/polymer composites for energy applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 231-253.	2.4	222
1038	Controlled synthesis of hierarchical polyaniline nanowires/ordered bimodal mesoporous carbon nanocomposites with high surface area for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2013, 240, 544-550.	4.0	94
1039	In situ ⁷ Li nuclear magnetic resonance observation of the electrochemical intercalation of lithium in graphite: second cycle analysis. <i>Carbon</i> , 2013, 61, 140-153.	5.4	58
1040	Performance of an Electrochemical double layer capacitor based on coconut shell active material and ionic liquid as an electrolyte. <i>Journal of Power Sources</i> , 2013, 228, 83-88.	4.0	35
1041	Facile and large-scale chemical synthesis of highly porous secondary submicron/micron-sized NiCo ₂ O ₄ materials for high-performance aqueous hybrid AC-NiCo ₂ O ₄ electrochemical capacitors. <i>Electrochimica Acta</i> , 2013, 107, 494-502.	2.6	265
1042	Low cost, eco-friendly layered Li _{1.2} (Mn _{0.32} Ni _{0.32} Fe _{0.16})O ₂ nanoparticles for hybrid supercapacitor applications. <i>Electrochimica Acta</i> , 2013, 109, 595-601.	2.6	16
1043	3D flowerlike poly(3,4-ethylenedioxythiophene) for high electrochemical capacitive energy storage. <i>Electrochimica Acta</i> , 2013, 106, 219-225.	2.6	21

#	ARTICLE	IF	CITATIONS
1044	Pt nanodendrites anchored on bamboo-shaped carbon nanofiber arrays as highly efficient electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16677-16684.	3.8	24
1045	Fabrication and characterization of a nanoporous NiO film with high specific energy and power via an electrochemical dealloying approach. <i>Materials Research Bulletin</i> , 2013, 48, 3829-3833.	2.7	28
1046	High volumetric electrochemical performance of ultra-high density aligned carbon nanotube supercapacitors with controlled nanomorphology. <i>Electrochimica Acta</i> , 2013, 111, 608-613.	2.6	42
1047	A facile approach to synthesis coral-like nanoporous $\text{Ni}(\text{OH})_2$ and its supercapacitor application. <i>Journal of Power Sources</i> , 2013, 243, 721-727.	4.0	59
1048	Influence of morphologies and pseudocapacitive contributions for charge storage in V_2O_5 micro/nano-structures. <i>Electrochimica Acta</i> , 2013, 111, 762-770.	2.6	96
1049	Synthesis and Characterization of Porous Flowerlike Fe_2O_3 Nanostructures for Supercapacitor Application. <i>ECS Electrochemistry Letters</i> , 2013, 2, A60-A62.	1.9	120
1050	Solution blowing of ZnO nanoflake-encapsulated carbon nanofibers as electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13779.	5.2	90
1051	Micro supercapacitors based on a 3D structure with symmetric graphene or activated carbon electrodes. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 114013.	1.5	31
1052	Effect of MnO_2 coating on layered $\text{Li}(\text{Li}_{0.1}\text{Ni}_{0.3}\text{Mn}_{0.5}\text{Fe}_{0.1})\text{O}_2$ cathode material for Li-ion batteries. <i>Solid State Ionics</i> , 2013, 249-250, 171-176.	1.3	32
1053	Improved electrochemical performance of $\text{LiNi}_{0.5}\text{Rh}_x\text{Mn}_{1.5}\text{O}_4$ cathode materials for 5V lithium ion batteries via Rh-doping. <i>Materials Chemistry and Physics</i> , 2013, 138, 716-723.	2.0	23
1054	Application of poly (p-phenylene oxide) as blocking layer to reduce self-discharge in supercapacitors. <i>Journal of Power Sources</i> , 2013, 241, 589-596.	4.0	96
1055	A mini review on carbon-based metal-free electrocatalysts for oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1986-1991.	6.9	42
1056	One-pot synthesis and electrochemical properties of nitrogen-doped graphene decorated with $\text{M}(\text{OH})$ ($\text{M} = \text{FeO}, \text{Ni}, \text{Co}$) nanoparticles. <i>Electrochimica Acta</i> , 2013, 113, 117-126.	2.6	44
1057	Preparation and electrochemical performances of PEDOT/sulfonic acid-functionalized graphene composite hydrogel. <i>Synthetic Metals</i> , 2013, 172, 21-27.	2.1	37
1058	Humidity dependent structure of water at the interfaces between perfluorosulfonated ionomer thin film and Pt and HOPG studied by sum frequency generation spectroscopy. <i>Electrochemistry Communications</i> , 2013, 27, 5-8.	2.3	9
1059	Preparation of Co_3O_4 nanoplate/graphene sheet composites and their synergistic electrochemical performance. <i>Ionics</i> , 2013, 19, 215-220.	1.2	25
1060	Nitrogen-Doped Fullerene as a Potential Catalyst for Hydrogen Fuel Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 3315-3318.	6.6	167
1061	In situ synthesis of cobalt doped polyaniline modified graphene composites for high performance supercapacitor electrode materials. <i>Journal of Electroanalytical Chemistry</i> , 2013, 697, 32-45.	1.9	67

#	ARTICLE	IF	CITATIONS
1062	Vanadium oxide nanowire " Graphene binder free nanocomposite paper electrodes for supercapacitors: A facile green approach. <i>Journal of Power Sources</i> , 2013, 230, 130-137.	4.0	142
1063	Sulfur-nitrogen co-doped three-dimensional carbon foams with hierarchical pore structures as efficient metal-free electrocatalysts for oxygen reduction reactions. <i>Nanoscale</i> , 2013, 5, 3283.	2.8	304
1064	Facile synthesis of polyaniline nanotubes using reactive oxide templates for high energy density pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3315.	5.2	182
1065	Battery Components, <i>Active Materials for</i> ., 2013, , 51-92.		3
1066	A hybrid electrolyte energy storage device with high energy and long life using lithium anode and MnO ₂ nanoflake cathode. <i>Electrochemistry Communications</i> , 2013, 31, 35-38.	2.3	24
1067	Unusual electrochemical behavior of Ru-Cr binary oxide-based aqueous symmetric supercapacitors in KOH solution. <i>Electrochimica Acta</i> , 2013, 88, 654-658.	2.6	14
1068	Strongly Coupled Inorganic/Nanocarbon Hybrid Materials for Advanced Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2013, 135, 2013-2036.	6.6	856
1069	Functional mesoporous carbon-coated CNT network for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2013, 37, 1294.	1.4	12
1071	The cobalt oxide/hydroxide nanowall array film prepared by pulsed laser deposition for supercapacitors with superb-rate capability. <i>Electrochimica Acta</i> , 2013, 92, 298-303.	2.6	43
1072	Shape-Control and Electrocatalytic Activity-Enhancement of Pt-Based Bimetallic Nanocrystals. <i>Accounts of Chemical Research</i> , 2013, 46, 1867-1877.	7.6	366
1073	Fabrication of anchored copper oxide nanoparticles on graphene oxide nanosheets via an electrostatic coprecipitation and its application as supercapacitor. <i>Electrochimica Acta</i> , 2013, 88, 347-357.	2.6	355
1074	Hybrid nanostructured materials for high-performance electrochemical capacitors. <i>Nano Energy</i> , 2013, 2, 213-234.	8.2	976
1075	Synthesis of Ultrathin Nitrogen-Doped Graphitic Carbon Nanocages as Advanced Electrode Materials for Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2241-2248.	4.0	320
1076	Nanohybridization of Low-Dimensional Nanomaterials: Synthesis, Classification, and Application. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2013, 38, 1-56.	6.8	20
1077	Strongly coupled inorganic-nano-carbon hybrid materials for energy storage. <i>Chemical Society Reviews</i> , 2013, 42, 3088.	18.7	795
1078	A novel method to recycle mixed cathode materials for lithium ion batteries. <i>Green Chemistry</i> , 2013, 15, 1183.	4.6	321
1079	Electrical power generation by mechanically modulating electrical double layers. <i>Nature Communications</i> , 2013, 4, 1487.	5.8	176
1080	Preparation and capacitance of graphene/multiwall carbon nanotubes/MnO ₂ hybrid material for high-performance asymmetrical electrochemical capacitor. <i>Electrochimica Acta</i> , 2013, 89, 191-198.	2.6	112

#	ARTICLE	IF	CITATIONS
1081	Asymmetric hybrid capacitors based on activated carbon and activated carbon fibreâ€“PANI electrodes. <i>Electrochimica Acta</i> , 2013, 89, 326-333.	2.6	94
1082	Enhanced Supercapacitor Performance of Nâ€“Doped Mesoporous Carbons Prepared from a Gelatin Biomolecule. <i>ChemPhysChem</i> , 2013, 14, 1563-1569.	1.0	44
1083	3D Nitrogen-doped graphene prepared by pyrolysis of graphene oxide with polypyrrole for electrocatalysis of oxygen reduction reaction. <i>Nano Energy</i> , 2013, 2, 241-248.	8.2	367
1084	In situ assembly of graphene sheets-supported SnS ₂ nanoplates into 3D macroporous aerogels for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 237, 178-186.	4.0	182
1085	Electropolymerization of graphene oxide/polyaniline composite for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2013, 90, 95-100.	2.6	194
1086	Review and prospect of layered lithium nickel manganese oxide as cathode materials for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 911-926.	1.2	62
1087	Graphene Materials for Electrochemical Capacitors. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1244-1253.	2.1	288
1088	Atomistic Modeling of the Electrodeâ€“Electrolyte Interface in Li-Ion Energy Storage Systems: Electrolyte Structuring. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3747-3761.	1.5	137
1089	Synthesis and characterization of multiblock partially fluorinated hydrophobic poly(arylene ether) membranes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2301-2310.	2.5	33
1091	Enhanced Catalytic Four-Electron Dioxygen (O ₂) and Two-Electron Hydrogen Peroxide (H ₂ O ₂) Reduction with a Copper(II) Complex Possessing a Pendant Ligand Pivalamido Group. <i>Journal of the American Chemical Society</i> , 2013, 135, 6513-6522.	6.6	98
1092	The tail effect on the shape of an electrical double layer differential capacitance curve. <i>Journal of Chemical Physics</i> , 2013, 138, 144704.	1.2	30
1093	Microscopic Insights into the Electrochemical Behavior of Nonaqueous Electrolytes in Electric Double-Layer Capacitors. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1260-1267.	2.1	113
1094	Self-assembly of stacked layers of Mn ₃ O ₄ nanosheets using a scalable chemical strategy for enhanced, flexible, electrochemical energy storage. <i>Journal of Power Sources</i> , 2013, 238, 274-282.	4.0	75
1095	Synthesis of Mesoporous Ptâ€“Ru Alloy Particles with Uniform Sizes by Sophisticated Hardâ€“Templating Method. <i>Chemistry - an Asian Journal</i> , 2013, 8, 902-907.	1.7	25
1096	Clean Energy. <i>Interface Science and Technology</i> , 2013, 19, 279-383.	1.6	12
1097	Fuel Cell Comparison to Alternate Technologies. , 2013, , 77-95.		1
1098	Preparation of Fe ₃ O ₄ with high specific surface area and improved capacitance as a supercapacitor. <i>Nanoscale</i> , 2013, 5, 3793.	2.8	280
1099	Capacitance enhancement of polyaniline coated curved-graphene supercapacitors in a redox-active electrolyte. <i>Nanoscale</i> , 2013, 5, 4134.	2.8	151

#	ARTICLE	IF	CITATIONS
1100	Graphene-Wrapped Polyaniline Hollow Spheres As Novel Hybrid Electrode Materials for Supercapacitor Applications. ACS Applied Materials & Interfaces, 2013, 5, 3382-3391.	4.0	310
1101	Biofuel Cells: Bioelectrochemistry Applied to the Generation of Green Electricity. , 2013, , 101-123.		3
1102	Synthesis of superior carbon nanofibers with large aspect ratio and tunable porosity for electrochemical energy storage. Journal of Materials Chemistry A, 2013, 1, 9449.	5.2	57
1103	Performance analysis of an integrated CHP system with thermal and Electric Energy Storage for residential application. Applied Energy, 2013, 112, 928-938.	5.1	112
1104	Potential-Dependent Adsorption/Desorption Behavior of Perfluorosulfonated Ionomer on a Gold Electrode Surface Studied by Cyclic Voltammetry, Electrochemical Quartz Microbalance, and Electrochemical Atomic Force Microscopy. Langmuir, 2013, 29, 2420-2426.	1.6	34
1105	Metal-organic frameworks as platforms for clean energy. Energy and Environmental Science, 2013, 6, 1656.	15.6	858
1106	One-pot hydrothermal synthesis of reduced graphene oxide/carbon nanotube/Ni(OH) ₂ composites for high performance electrochemical supercapacitor. Journal of Power Sources, 2013, 243, 555-561.	4.0	204
1107	Enhanced Catalytic Performance of Pt-Free Iron Phthalocyanine by Graphene Support for Efficient Oxygen Reduction Reaction. ACS Catalysis, 2013, 3, 1263-1271.	5.5	356
1108	Enhanced-electrocatalytic activity of Pt nanoparticles supported on nitrogen-doped carbon for the oxygen reduction reaction. Journal of Power Sources, 2013, 240, 60-65.	4.0	47
1109	In search of an appropriate ionic liquid as electrolyte for macroporous manganese oxide film electrochemistry. Journal of Power Sources, 2013, 239, 1-8.	4.0	14
1110	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-Ion Batteries. Advanced Functional Materials, 2013, 23, 4293-4305.	7.8	96
1111	Toward the Theoretical Capacitance of RuO ₂ Reinforced by Highly Conductive Nanoporous Gold. Advanced Energy Materials, 2013, 3, 851-856.	10.2	184
1112	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. Nanoscale, 2013, 5, 6053.	2.8	271
1113	High-performance energy-storage devices based on WO ₃ nanowire arrays/carbon cloth integrated electrodes. Journal of Materials Chemistry A, 2013, 1, 7167.	5.2	203
1114	Metal Oxides and Oxyalts as Anode Materials for Li Ion Batteries. Chemical Reviews, 2013, 113, 5364-5457.	23.0	2,670
1115	Self-assembled phosphomolybdic acid-polyaniline-graphene composite-supported efficient catalyst towards methanol oxidation. Journal of Materials Chemistry A, 2013, 1, 6687.	5.2	38
1116	Three-dimensional ordered nanostructures for supercapacitor electrode. Electrochimica Acta, 2013, 99, 278-284.	2.6	26
1117	Nitrogen-doped mesoporous carbons originated from ionic liquids as electrode materials for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 6373.	5.2	130

#	ARTICLE	IF	CITATIONS
1118	An overview of Functional nanomaterials for lithium rechargeable batteries, supercapacitors, hydrogen storage, and fuel cells. <i>Materials Research Bulletin</i> , 2013, 48, 4968-4973.	2.7	17
1119	Enhancement of Proton Transport by High Densification of Sulfonic Acid Groups in Highly Ordered Mesoporous Silica. <i>Chemistry of Materials</i> , 2013, 25, 1584-1591.	3.2	49
1120	Graphene-Like MoS ₂ /Graphene Composites: Cationic Surfactant-Assisted Hydrothermal Synthesis and Electrochemical Reversible Storage of Lithium. <i>Small</i> , 2013, 9, 3693-3703.	5.2	322
1121	DFT study of platinum and palladium overlayers on tungsten carbide: Structure and electrocatalytic activity toward hydrogen oxidation/evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5009-5018.	3.8	68
1122	Facile Fabrication of Hierarchically Porous CuFe ₂ O ₄ Nanospheres with Enhanced Capacitance Property. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6030-6037.	4.0	206
1123	One stone, two birds: <i>Gastrodia elata</i> -derived heteroatom-doped carbon materials for efficient oxygen reduction electrocatalyst and as fluorescent decorative materials. <i>Nano Energy</i> , 2013, 2, 1261-1270.	8.2	54
1124	Acid-Induced Mechanism Change and Overpotential Decrease in Dioxygen Reduction Catalysis with a Dinuclear Copper Complex. <i>Journal of the American Chemical Society</i> , 2013, 135, 4018-4026.	6.6	56
1125	Three-dimensional activated reduced graphene oxide nanocup/nickel aluminum layered double hydroxides composite with super high electrochemical and capacitance performances. <i>Electrochimica Acta</i> , 2013, 95, 146-154.	2.6	71
1126	High-performance supercapacitors materials prepared via in situ growth of NiAl-layered double hydroxide nanoflakes on well-activated graphene nanosheets. <i>Electrochimica Acta</i> , 2013, 94, 360-366.	2.6	75
1127	Functional Polyolefins: Synthesis and Energy Storage Applications. <i>Advances in Polymer Science</i> , 2013, , 233-278.	0.4	11
1128	Preparation and electroactivity of polymer-functionalized graphene oxide-supported platinum nanoparticles catalysts. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6275-6282.	3.8	49
1129	Self-discharge of electrochemical double layer capacitors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8692.	1.3	120
1130	One-pot synthesis of a RGO-supported ultrafine ternary PtAuRu catalyst with high electrocatalytic activity towards methanol oxidation in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7255.	5.2	86
1131	Rational design of Au-NiO hierarchical structures with enhanced rate performance for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7023.	5.2	50
1132	Hydrothermal synthesis of Ni@C core-shell composites with high capacitance. <i>Journal of Alloys and Compounds</i> , 2013, 575, 152-157.	2.8	16
1133	One-step synthesis of CoMoO ₄ /graphene composites with enhanced electrochemical properties for supercapacitors. <i>Electrochimica Acta</i> , 2013, 99, 253-261.	2.6	222
1134	Template-free electrochemical synthesis and electrochemical supercapacitors application of polyaniline nanobuds. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3660-3664.	1.3	15
1135	Three-Dimensional Hierarchical GeSe ₂ Nanostructures for High Performance Flexible All-Solid-State Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 1479-1486.	11.1	236

#	ARTICLE	IF	CITATIONS
1136	Highly ordered mesoporous phenolâ€‘formaldehyde carbon as supercapacitor electrode material. <i>Journal of Power Sources</i> , 2013, 231, 197-202.	4.0	73
1137	Copper chlorideâ€‘doped polyaniline/multiwalled carbon nanotubes nanocomposites: Superior electrode material for supercapacitor applications. <i>Polymer Composites</i> , 2013, 34, 517-525.	2.3	23
1138	Electrochemical characteristics of two-dimensional nano-structured MnO ₂ for symmetric supercapacitor. <i>Electrochimica Acta</i> , 2013, 87, 457-465.	2.6	70
1139	Supercapacitor electrode of hollow spherical V ₂ O ₅ with a high pseudocapacitance in aqueous solution. <i>Electrochimica Acta</i> , 2013, 105, 489-495.	2.6	156
1140	Microparticle Electrodes and Single Particle Microbatteries: Electrochemical and in Situ MicroRaman Spectroscopic Studies. <i>Accounts of Chemical Research</i> , 2013, 46, 1192-1205.	7.6	29
1141	Ruthenium-Based Electrochemical Supercapacitors: Insights from First-Principles Calculations. <i>Accounts of Chemical Research</i> , 2013, 46, 1084-1093.	7.6	67
1142	Molecular Dynamics modelling a small-molecule crystalline electrolyte: LiBF ₄ (CH ₃ O(CH ₂ CH ₂ O) ₄ CH ₃) _{0.5} . <i>Electrochimica Acta</i> , 2013, 104, 33-40.	2.6	5
1143	Preparation of cobalt hydroxide nanosheets on carbon nanotubes/carbon paper conductive substrate for supercapacitor application. <i>Electrochimica Acta</i> , 2013, 104, 110-116.	2.6	50
1144	Amorphous nickel hydroxide nanospheres with ultrahigh capacitance and energy density as electrochemical pseudocapacitor materials. <i>Nature Communications</i> , 2013, 4, 1894.	5.8	1,041
1145	Current research trends and prospects among the various materials and designs used in lithium-based batteries. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 481-496.	1.5	362
1146	PdAg Nanorings Supported on Graphene Nanosheets: Highly Methanolâ€‘Tolerant Cathode Electrocatalyst for Alkaline Fuel Cells. <i>Advanced Functional Materials</i> , 2013, 23, 1289-1296.	7.8	273
1147	Electrochemical synthesis of a novel platinum nanostructure on a glassy carbon electrode, and its application to the electrooxidation of methanol. <i>Mikrochimica Acta</i> , 2013, 180, 879-886.	2.5	17
1148	Li ₂ RuO ₃ as an Additive for High-Energy Lithium-Ion Capacitors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11471-11478.	1.5	55
1149	Structure of Pt(111)/Ionomer Membrane Interface and Its Bias-Induced Change in Membrane Electrode Assembly. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12168-12171.	1.5	22
1150	Nuclear magnetic resonance study of ion adsorption on microporous carbide-derived carbon. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7722.	1.3	77
1151	Conductivity, Spectroscopic, and Computational Investigation of H ₃ O ⁺ Solvation in Ionic Liquid BMIBF ₄ . <i>Journal of Physical Chemistry B</i> , 2013, 117, 7057-7064.	1.2	14
1152	Enhanced Photocatalytic Oxygen Evolution by Crystal Cutting. <i>Advanced Materials</i> , 2013, 25, 2035-2039.	11.1	49
1153	Important parameters affecting the cell voltage of aqueous electrical double-layer capacitors. <i>Journal of Power Sources</i> , 2013, 242, 289-298.	4.0	71

#	ARTICLE	IF	CITATIONS
1154	Characterization of niobium and vanadium oxide nanocomposites with improved rate performance and cycling stability. <i>Electrochimica Acta</i> , 2013, 102, 351-357.	2.6	20
1155	High performance graphene-poly (o-anisidine) nanocomposite for supercapacitor applications. <i>Materials Chemistry and Physics</i> , 2013, 141, 263-271.	2.0	27
1156	Facile chemical synthesis of nitrogen-doped graphene sheets and their electrochemical capacitance. <i>Journal of Power Sources</i> , 2013, 241, 460-466.	4.0	67
1157	Controlled synthesis of mesoporous carbon nanosheets and their enhanced supercapacitive performance. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1677-1684.	1.2	14
1159	Reduced graphene oxide-CoFe ₂ O ₄ composites for supercapacitor electrode. <i>Russian Journal of Electrochemistry</i> , 2013, 49, 359-364.	0.3	60
1160	Hierarchical Mo-decorated Co ₃ O ₄ nanowire arrays on Ni foam substrates for advanced electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8593.	5.2	84
1161	Composite structure and properties of Mn ₃ O ₄ /graphene oxide and Mn ₃ O ₄ /graphene. <i>Journal of Materials Chemistry A</i> , 2013, , .	5.2	22
1162	Microspherical polyaniline/graphene nanocomposites for high performance supercapacitors. <i>Journal of Power Sources</i> , 2013, 243, 715-720.	4.0	72
1163	Phenol-formaldehyde carbon with ordered/disordered bimodal mesoporous structure as high-performance electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2013, 241, 6-11.	4.0	26
1164	Performance evaluation of symmetric supercapacitor based on cobalt hydroxide [Co(OH) ₂] thin film electrodes. <i>Electrochimica Acta</i> , 2013, 98, 32-38.	2.6	201
1165	Aging stability of Li ₂ FeSiO ₄ polymorphs in LiPF ₆ containing organic electrolyte for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 105, 542-546.	2.6	18
1166	Facile Fabrication of Pt Nanoparticles on 1-Pyrenamine Functionalized Graphene Nanosheets for Methanol Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 527-533.	3.2	32
1167	Microwave-assisted hydrothermal annealing of binary Ni-Co oxy-hydroxides for asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2013, 238, 180-189.	4.0	56
1168	Microwave assisted green synthesis of MgO-carbon nanotube composites as electrode material for high power and energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4105.	5.2	57
1169	On-surface cross-coupling methods for the construction of modified electrode assemblies with tailored morphologies. <i>Chemical Science</i> , 2013, 4, 437-443.	3.7	24
1170	Polymer-inorganic supramolecular nanohybrids for red, white, green, and blue applications. <i>Progress in Polymer Science</i> , 2013, 38, 1442-1486.	11.8	105
1171	Electrophoretic fabrication and pseudocapacitive properties of graphene/manganese oxide/carbon nanotube nanocomposites. <i>Journal of Power Sources</i> , 2013, 243, 594-602.	4.0	47
1172	Boron and Nitrogen Codoped Nanodiamond as an Efficient Metal-Free Catalyst for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14992-14998.	1.5	80

#	ARTICLE	IF	CITATIONS
1173	Blends of lithium bis(oxalato)borate and lithium tetrafluoroborate: Useful substitutes for lithium difluoro(oxalato)borate in electrolytes for lithium metal based secondary batteries?. <i>Electrochimica Acta</i> , 2013, 107, 26-32.	2.6	40
1174	Assembly of Pt Nanowires into Cubelike Superstructures Supported on Aligned Carbon Nanotubes as Highly Stable Electrocatalysts. <i>Chemistry - A European Journal</i> , 2013, 19, 9155-9159.	1.7	8
1175	Unraveling the potential and pore-size dependent capacitance of slit-shaped graphitic carbon pores in aqueous electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2309.	1.3	79
1177	Synthesis of carbon-coated Fe ₃ O ₄ nanorods as electrode material for supercapacitor. <i>Ionics</i> , 2013, 19, 1255-1261.	1.2	61
1178	N-doped carbon synthesized from N-containing polymers as metal-free catalysts for the oxygen reduction under alkaline conditions. <i>Electrochimica Acta</i> , 2013, 98, 139-145.	2.6	68
1179	A Facile Strategy to Pt ₃ Ni Nanocrystals with Highly Porous Features as an Enhanced Oxygen Reduction Reaction Catalyst. <i>Advanced Materials</i> , 2013, 25, 2974-2979.	11.1	232
1180	Monodisperse M _x Fe ₃ O ₄ (M = Fe, Cu, Co, Mn) Nanoparticles and Their Electrocatalysis for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2013, 13, 2947-2951.	4.5	421
1181	Molecular Architecture of Cobalt Porphyrin Multilayers on Reduced Graphene Oxide Sheets for High-Performance Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5585-5589.	7.2	242
1182	Room-temperature synthesis of 3-dimensional Ag-graphene hybrid hydrogel with promising electrochemical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 769-774.	1.7	23
1183	Evaporation-Induced Coating of Hydrous Ruthenium Oxide on Mesoporous Silica Nanoparticles to Develop High-Performance Supercapacitors. <i>Small</i> , 2013, 9, 2520-2526.	5.2	142
1184	Mesoporous titanium nitride supported Pt nanoparticles as high performance catalysts for methanol electrooxidation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1088-1092.	1.3	70
1185	Strategies to reduce the resistance sources on Electrochemical Double Layer Capacitor electrodes. <i>Journal of Power Sources</i> , 2013, 238, 422-429.	4.0	74
1186	Can Si-doped graphene activate or dissociate O ₂ molecule?. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 39, 126-132.	1.3	65
1187	Electrospun Zn ₁ Mn _x Fe ₂ O ₄ Nanofibers As Anodes for Lithium-Ion Batteries and the Impact of Mixed Transition Metallic Oxides on Battery Performance. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5461-5467.	4.0	65
1188	High Rate Performance of Flexible Pseudocapacitors fabricated using Ionic-Liquid-Based Proton Conducting Polymer Electrolyte with Poly(3, 4-ethylenedioxythiophene):Poly(styrene sulfonate) and Its Hydrous Ruthenium Oxide Composite Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3875-3883.	4.0	75
1189	A high-energy-density micro supercapacitor of asymmetric MnO ₂ -carbon configuration by using micro-fabrication technologies. <i>Journal of Power Sources</i> , 2013, 234, 302-309.	4.0	124
1190	Electrochemically-deposited nanostructured Co(OH) ₂ flakes on three-dimensional ordered nickel/silicon microchannel plates for miniature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 532-540.	5.2	74
1191	Synthesis and super capacitance of goethite/reduced graphene oxide for supercapacitors. <i>Materials Chemistry and Physics</i> , 2013, 141, 310-317.	2.0	26

#	ARTICLE	IF	CITATIONS
1192	Synthesis of Anatase TiO ₂ Nanosheets with Enhanced Pseudocapacitive Contribution for Fast Lithium Storage. ACS Applied Materials & Interfaces, 2013, 5, 6285-6291.	4.0	92
1194	Non-aqueous energy storage devices using graphene nanosheets synthesized by green route. AIP Advances, 2013, 3, .	0.6	16
1195	Hydrothermal synthesis of hexagonal MoO ₃ and its reversible electrochemical behavior as a cathode for Li-ion batteries. Electronic Materials Letters, 2013, 9, 693-696.	1.0	32
1196	The Surfactant Assisted Synthesis of MoS ₂ Nanospheres with Improved Lithium Storage Properties. Advanced Materials Research, 2013, 785-786, 787-791.	0.3	2
1197	Synthesis and preparation of sulfonated hyperbranched poly(aryl ether ketone)-sulfonated linear poly(aryl ether ketone) blend membranes for proton exchange membranes. High Performance Polymers, 2013, 25, 759-768.	0.8	11
1198	Design of a High Performance Thin All-Solid-State Supercapacitor Mimicking the Active Interface of Its Liquid-State Counterpart. ACS Applied Materials & Interfaces, 2013, 5, 13397-13404.	4.0	53
1199	Carbon nanotube production and application in energy storage. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 234-245.	0.8	23
1200	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. Scientific Reports, 2013, 3, 3002.	1.6	222
1201	Removal of Cr(VI) with Cogeneration of Electricity by an Alkaline Fuel Cell Reactor. Journal of Physical Chemistry C, 2013, 117, 14479-14484.	1.5	32
1202	The synergy effect on Li storage of LiFePO ₄ with activated carbon modifications. RSC Advances, 2013, 3, 20024.	1.7	46
1203	Low loading platinum nanoparticles on reduced graphene oxide-supported tungsten carbide crystallites as a highly active electrocatalyst for methanol oxidation. Electrochimica Acta, 2013, 114, 133-141.	2.6	41
1204	A triazole-based polymer electrolyte membrane for fuel cells operated in a wide temperature range (25-150°C) with little humidification. Journal of Power Sources, 2013, 241, 219-224.	4.0	35
1205	Is platinum necessary for efficient hydrogen evolution? - DFT study of metal monolayers on tungsten carbide. International Journal of Hydrogen Energy, 2013, 38, 16071-16079.	3.8	59
1206	Hydrothermal Self-assembly Synthesis of Mn ₃ O ₄ /Reduced Graphene Oxide Hydrogel and Its High Electrochemical Performance for Supercapacitors. Chinese Journal of Chemistry, 2013, 31, 1290-1298.	2.6	56
1207	Palladium/Cobalt Coated on Multi-Walled Carbon Nanotubes as an Electro-catalyst for Oxygen Reduction Reaction in Passive Direct Methanol Fuel Cells. Fuel Cells, 2013, 13, 987-1004.	1.5	15
1208	1-Dimensional porous γ -Fe ₂ O ₃ nanorods as high performance electrode material for supercapacitors. RSC Advances, 2013, 3, 25120.	1.7	92
1209	Graphene as a Target for Polymer Synthesis. Advances in Polymer Science, 2013, , 61-92.	0.4	12
1210	Multi-Scale Characterization Studies of Aged Li-Ion Large Format Cells for Improved Performance: An Overview. Journal of the Electrochemical Society, 2013, 160, A2111-A2154.	1.3	50

#	ARTICLE	IF	CITATIONS
1211	Electrospun Porous NiCo ₂ O ₄ Nanotubes as Advanced Electrodes for Electrochemical Capacitors. Chemistry - A European Journal, 2013, 19, 5892-5898.	1.7	244
1212	S-doped micro/mesoporous carbon-graphene composites as efficient supercapacitors in alkaline media. Journal of Materials Chemistry A, 2013, 1, 11717.	5.2	144
1213	Cathodic deposition of Ni(OH) ₂ and Co(OH) ₂ for asymmetric supercapacitors: Importance of the electrochemical reversibility of redox couples. Journal of Power Sources, 2013, 221, 128-133.	4.0	205
1214	A high energy and power density hybrid supercapacitor based on an advanced carbon-coated Li ₄ Ti ₅ O ₁₂ electrode. Journal of Power Sources, 2013, 221, 266-271.	4.0	183
1215	Enhanced conductivity and electrical relaxation studies of carbon-coated LiMnPO ₄ nanorods. Ionics, 2013, 19, 461-469.	1.2	20
1216	Bio-inspired Synthesis of Minerals for Energy, Environment, and Medicinal Applications. Advanced Functional Materials, 2013, 23, 10-25.	7.8	94
1217	Mn²⁺/x²⁺/O²⁻/C used as bifunctional electrocatalyst in alkaline medium. , 2013, , .		0
1218	Capacitance enhancement via electrode patterning. Journal of Chemical Physics, 2013, 139, 204708.	1.2	27
1219	Experimental Analysis of a Piezoelectric Energy Harvesting System for Harmonic, Random, and Sine on Random Vibration. Advances in Acoustics and Vibration, 2013, 2013, 1-12.	0.5	8
1220	Modified Nafion Membranes by Catalytic Materials for Direct Methanol Fuel Cells Applications. Advanced Materials Research, 0, 684, 90-93.	0.3	0
1221	Synthesis of Nanostructured PdMo Electrocatalysts for Oxygen Reduction Reaction in Fuel Cells. Advanced Materials Research, 2013, 785-786, 390-394.	0.3	2
1222	Dielectric and Energy Storage Properties of Polyvinylidene Fluoride/Barium Titanate Nanocomposites. Advanced Materials Research, 0, 833, 365-369.	0.3	7
1223	Ambulatory Electrocardiology. Cardiology in Review, 2013, 21, 239-248.	0.6	6
1224	ELECTRODEPOSITION OF POLYPYRROLE/MnO ₂ NANOCOMPOSITE ON GRAPHITE FELT AS FREE-STANDING ELECTRODE FOR SUPERCAPACITORS. Nano, 2013, 08, 1350020.	0.5	3
1225	Mn²⁺/x²⁺/O²⁻/C used as bifunctional electrocatalyst in alkaline medium. , 2013, , .		0
1226	Low-Pt Loaded on a Vanadium Nitride/Graphitic Carbon Composite as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. Chemistry - A European Journal, 2013, 19, 13979-13986.	1.7	53
1227	A Review of Electrospun Carbon Fibers as Electrode Materials for Energy Storage. Current Organic Chemistry, 2013, 17, 1390-1401.	0.9	121
1228	Enhanced Electrochemical Activity for Oxygen Reduction Reaction from Nitrogen-Doped Carbon Nanofibers by Iron Doping. ECS Solid State Letters, 2013, 2, M37-M39.	1.4	14

#	ARTICLE	IF	CITATIONS
1229	Multicomponent Silicate Cathode Materials for Rechargeable Li-Ion Batteries: An Ab Initio Study. Journal of the Electrochemical Society, 2013, 160, A60-A65.	1.3	10
1230	A Review on the Structural Studies of Batteries and Host Materials by X-Ray Absorption Spectroscopy. ISRN Materials Science, 2013, 2013, 1-22.	1.0	49
1231	Development of High Performance Electrochemical Capacitor: A Systematic Review of Electrode Fabrication Technique Based on Different Carbon Materials. ECS Journal of Solid State Science and Technology, 2013, 2, M3101-M3119.	0.9	42
1233	Towards High Power High Energy Aqueous Sodium-Ion Batteries: The NaTi ₂ (PO ₄) ₃ /Na _{0.44} MnO ₂ System. Advanced Energy Materials, 2013, 3, 290-294.	10.2	430
1234	Substitutional doping of bore, aluminum, silicon, phosphor and nitrogen in graphene for fuel cell Density functional theory study. , 2013, , .		0
1235	Dendronized Polymer Architectures for Fuel Cell Membranes. Fuel Cells, 2013, 13, 342-354.	1.5	10
1236	An Electronic Circuit for Trickle Charge Harvesting From Littoral Microbial Fuel Cells. IEEE Journal of Oceanic Engineering, 2013, 38, 32-42.	2.1	24
1237	Niobium Dioxide Facilitating Methanol Electrooxidation on Pt/C Catalyst by Synergistic Effect. Fuel Cells, 2013, 13, 895-902.	1.5	3
1238	Camphoric Carbon-Grafted Ni/NiO Nanowire Electrodes for High-Performance Energy Storage Systems. ChemPlusChem, 2013, 78, 1258-1265.	1.3	20
1239	High dielectric performance of tactic polynorbornene derivatives synthesized by ring-opening metathesis polymerization. Journal of Polymer Science Part A, 2013, 51, 1292-1301.	2.5	32
1240	Hydrothermal Synthesis of Nickel Oxide Nanosheets for Lithium-Ion Batteries and Supercapacitors with Excellent Performance. Chemistry - an Asian Journal, 2013, 8, 2828-2832.	1.7	33
1241	Fast Ionic Diffusion-Enabled Nanoflake Electrode by Spontaneous Electrochemical Pre-Intercalation for High-Performance Supercapacitor. Scientific Reports, 2013, 3, .	1.6	182
1242	Characterization of Graphene Nanosheets as Electrode Material and Their Performances for Electric Double-Layer Capacitors. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 525-536.	1.0	12
1243	Indirect Transformation of Coordination-Polymer Particles into Magnetic Carbon-Coated Mn ₃ O ₄ (Mn ₃ O ₄ @C) Nanowires for Supercapacitor Electrodes with Good Cycling Performance. Chemistry - A European Journal, 2013, 19, 7084-7089.	1.7	47
1244	Fuel Cell Membranes Based on Polymer-Modified Silica Colloidal Crystals and Glasses: Proton Conductivity and Fuel Cell Performance. Materials Research Society Symposia Proceedings, 2013, 1502, 1.	0.1	2
1245	Phenomenological Characterization of the Fabrication of Aligned Carbon Nanotube Nanocomposites via Dielectrophoresis Under AC Electric Field. , 2013, , .		1
1246	Nitrogen-doped Carbon Nanofibers as Highly Active Metal-free Electrocatalysts for Oxygen Reduction Reactions in Acidic Media. Chemistry Letters, 2013, 42, 413-415.	0.7	9
1247	Titanium Nitride Nanocrystals on Nitrogen-Doped Graphene as an Efficient Electrocatalyst for Oxygen Reduction Reaction. Chemistry - A European Journal, 2013, 19, 14781-14786.	1.7	73

#	ARTICLE	IF	CITATIONS
1248	Nanowire modified carbon fibers for enhanced electrical energy storage. Journal of Applied Physics, 2013, 114, 104306.	1.1	14
1249	Designed Synthesis of Transition Metal/Oxide Hierarchical Peapods Array with the Superior Lithium Storage Performance. Scientific Reports, 2013, 3, 2717.	1.6	19
1250	Impact of Lithium Salt Addition to Ionic Liquid Electrolytes for High-performance Electric Double-layer Capacitors. Electrochemistry, 2013, 81, 857-862.	0.6	7
1251	ELECTROCHEMICAL STRAIN MICROSCOPY OF LI-ION AND LI-AIR BATTERY MATERIALS. World Scientific Series in Nanoscience and Nanotechnology, 2013, , 393-454.	0.1	3
1252	APPLICATIONS “ TRANSPORTATION Electric Vehicle: Batteries. , 2013, , .		0
1256	Nanostructured catalysts for oxygen electroreduction based on bimetallic monoethanolamine complexes of Co(III) and Ni(II). Journal of Applied Electrochemistry, 2014, 44, 1193-1203.	1.5	6
1257	Metal-polyaniline nanofibre composite for supercapacitor applications. Bulletin of Materials Science, 2014, 37, 1001-1006.	0.8	28
1258	Graphene/heparin template-controlled polyaniline nanofibers composite for high energy density supercapacitor electrode. Materials Research Express, 2014, 1, 045051.	0.8	2
1259	Modified Graphene as Electrocatalyst towards Oxygen Reduction Reaction for Fuel Cells. Journal of Physics: Conference Series, 2014, 557, 012009.	0.3	5
1260	pH-Regulated Synthesis of Multi-Shelled Manganese Oxide Hollow Microspheres as Supercapacitor Electrodes Using Carbonaceous Microspheres as Templates. Advanced Science, 2014, 1, 1400011.	5.6	154
1261	Electrochemical Behavior and Specific Capacitance of Polyaniline/Silver Nanoparticle/Multi-walled Carbon Nanotube Composites. Chinese Journal of Chemical Physics, 2014, 27, 718-724.	0.6	11
1262	Multinuclear NMR Study of Structure and Mobility in Cyclic Model Lithium Conducting Systems. Applied Magnetic Resonance, 2014, 45, 1063-1073.	0.6	4
1263	Remote cutting of Li-ion battery electrodes with infrared and green ns-pulsed fibre lasers. International Journal of Advanced Manufacturing Technology, 2014, 75, 1557-1568.	1.5	18
1265	Catalytic properties of ZnO-modified copper ferrite catalysts in water-gas shift reaction. Journal of Fuel Chemistry and Technology, 2014, 42, 1351-1356.	0.9	3
1266	Block Copolymer-Derived Monolithic Polymer Films and Membranes Comprising Self-Organized Cylindrical Nanopores for Chemical Sensing and Separations. Chemistry - an Asian Journal, 2014, 9, 2708-2718.	1.7	20
1267	Functional Carbon Nanotube/Mesoporous Carbon/MnO ₂ Hybrid Network for High-Performance Supercapacitors. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	7
1268	Multiwalled Carbon Nanotube Nanofluids Used for Heat Dissipation in Hybrid Green Energy Systems. Journal of Nanomaterials, 2014, 2014, 1-12.	1.5	10
1269	1D Pd-Based Nanomaterials as Efficient Electrocatalysts for Fuel Cells. Green Energy and Technology, 2014, , 321-357.	0.4	2

#	ARTICLE	IF	CITATIONS
1270	Analytical Methods for Investigation of Lithium-Ion Battery Ageing. SpringerBriefs in Applied Sciences and Technology, 2014, , 71-87.	0.2	2
1271	A high-capacitance solid-state supercapacitor based on polyaniline and ground carbon fibers. , 2014, , .		1
1272	Ultrafast laser microstructuring of LiFePO ₄ cathode material. , 2014, , .		6
1273	Electrochemical impedance spectroscopy of supercapacitors: A novel analysis approach using evolutionary programming. , 2014, , .		8
1274	Fabrication technology to increase surface area of ionomer membrane material and its application towards high surface area electric double-layer capacitors. , 2014, , .		2
1275	Special microwave-assisted one-pot synthesis of low loading Pt-Ru alloy nanoparticles on reduced graphene oxide for methanol oxidation. Micro and Nano Letters, 2014, 9, 50-54.	0.6	12
1276	Proton Conductivity in Doped Aluminum Phosphonate Sponges. ChemSusChem, 2014, 7, 1148-1154.	3.6	18
1277	Realizing a supercapacitor in an electrical circuit. Applied Physics Letters, 2014, 105, .	1.5	3
1278	Graphite Oxide: An Interesting Candidate for Aqueous Supercapacitors. Electrochimica Acta, 2014, 149, 245-251.	2.6	15
1279	Flexible thermoelectric generator based on transfer printed Si microwires. , 2014, , .		21
1280	Increased Capacity of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Li[Li _{1/3} Mn _{2/3}]O ₂ Cathodes by MnO _x surface Modification for Lithium-Ion Batteries. Energy Technology, 2014, 2, 188-193.	1.8	15
1281	Size asymmetric hard spheres as a convenient model for the capacitance of the electrical double layer of an ionic liquid. Journal of Chemical Physics, 2014, 140, 014704.	1.2	26
1282	The Effect of Carbon Additives on the Microstructure and Conductivity of Alkaline Battery Cathodes. Journal of the Electrochemical Society, 2014, 161, A1691-A1697.	1.3	15
1283	Enhanced electrochemical performance of nano-MnO ₂ modified by Ni(OH) ₂ as electrode material for supercapacitor. Journal of Solid State Electrochemistry, 2014, 18, 3173-3180.	1.2	17
1284	Combined Computational and Experimental Study of Li Exchange Reaction at the Surface of Spinel LiMn ₂ O ₄ as a Rechargeable Li-Ion Battery Cathode. Journal of Physical Chemistry C, 2014, 118, 27245-27251.	1.5	31
1285	A high-capacity dual-electrolyte aluminum/air electrochemical cell. RSC Advances, 2014, 4, 30857-30863.	1.7	44
1286	Carbonized Nanoscale Metal-Organic Frameworks as High Performance Electrocatalyst for Oxygen Reduction Reaction. ACS Nano, 2014, 8, 12660-12668.	7.3	509
1287	D2 Electrode: Production Technologies and Component Integration of Nanostructured Carbon Electrodes for Energy Technology Functionalized Carbon Materials for Efficient Electrical Energy Supply. Advanced Engineering Materials, 2014, 16, 1196-1201.	1.6	0

#	ARTICLE	IF	CITATIONS
1288	Anomalously Enhanced Hydration of Aqueous Electrolyte Solution in Hydrophobic Carbon Nanotubes to Maintain Stability. <i>ChemPhysChem</i> , 2014, 15, 415-419.	1.0	11
1289	Carbonaceous Impurities Contained in Graphene Oxide/Reduced Graphene Oxide Dominate Their Electrochemical Capacitances. <i>Electroanalysis</i> , 2014, 26, 139-146.	1.5	18
1290	Oxygen-deficient titania as alternative support for Pt catalysts for the oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2014, 23, 701-707.	7.1	17
1291	Three-Dimensional Graphitized Carbon Nanovesicles for High-Performance Supercapacitors Based on Ionic Liquids. <i>ChemSusChem</i> , 2014, 7, 777-784.	3.6	28
1292	Electrochemical role of oxygen containing functional groups on activated carbon electrode. <i>RSC Advances</i> , 2014, 4, 62678-62683.	1.7	17
1293	Electrochemical Preparation of N-Doped Cobalt Oxide Nanoparticles with High Electrocatalytic Activity for the Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , 2014, 20, 3457-3462.	1.7	39
1294	Composition-Tailored Mn _{1-x} Ru _x O ₂ Nanosheets and Their Reassembled Nanocomposites: Improvement of Electrode Performance upon Ru Substitution. <i>Chemistry - A European Journal</i> , 2014, 20, 5132-5140.	1.7	26
1295	Polymers for Charge Storage. , 2014, , 1-9.		0
1296	Blood Ties: Co ₃ O ₄ Decorated Blood Derived Carbon as a Superior Bifunctional Electrocatalyst. <i>Advanced Functional Materials</i> , 2014, 24, 7655-7665.	7.8	113
1297	Effects of Carbonization Temperature and Time during Carbon Riveting Process on the Stability of Pt/C Catalyst. <i>Fuel Cells</i> , 2014, 14, 660-666.	1.5	5
1298	MnO ₂ Supported Pt Nanoparticles with High Electrocatalytic Activity for Oxygen Reduction Reaction. <i>Fuel Cells</i> , 2014, 14, .	1.5	9
1299	Unification of Catalytic Water Oxidation and Oxygen Reduction Reactions: Amorphous Beat Crystalline Cobalt Iron Oxides. <i>Journal of the American Chemical Society</i> , 2014, 136, 17530-17536.	6.6	575
1300	Computational studies of solid electrolyte interphase formation. <i>Chemical Modelling</i> , 2014, , 57-87.	0.2	6
1301	Radiation-Grafted Membranes for Polymer Electrolyte Fuel Cells: Current Trends and Future Directions. <i>Chemical Reviews</i> , 2014, 114, 12278-12329.	23.0	164
1302	Hierarchical Sulfur-Based Cathode Materials with Long Cycle Life for Rechargeable Lithium Batteries. <i>ChemSusChem</i> , 2014, 7, 563-569.	3.6	82
1303	PEDOT:PSS self-assembled films to methanol crossover reduction in Nafion [®] membranes. <i>Applied Surface Science</i> , 2014, 323, 7-12.	3.1	11
1304	Transport-limited water splitting at ion-selective interfaces during concentration polarization. <i>Physical Review E</i> , 2014, 89, 042405.	0.8	15
1305	Lead(II) Binding to the Chelating Agent d-Penicillamine in Aqueous Solution. <i>Inorganic Chemistry</i> , 2014, 53, 12459-12468.	1.9	43

#	ARTICLE	IF	CITATIONS
1306	High Performance Monolithic Power Management System with Dynamic Maximum Power Point Tracking for Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2014, 48, 13992-13999.	4.6	38
1307	Magnetization-induced double-layer capacitance enhancement in active carbon/Fe ₃ O ₄ nanocomposites. <i>Journal of Energy Chemistry</i> , 2014, 23, 809-815.	7.1	30
1308	Three-dimensional Hierarchical Nanoporosity for Ultrahigh Power and Excellent Cyclability of Electrochemical Pseudocapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1301809.	10.2	27
1309	Introduction: Batteries. <i>Chemical Reviews</i> , 2014, 114, 11413-11413.	23.0	50
1310	Polypyrrole/Sulfonated Graphene Composite as Electrode Material for Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29688-29694.	1.5	96
1311	Transition metal oxides/hydroxides nanoarrays for aqueous electrochemical energy storage systems. <i>Science China Materials</i> , 2014, 57, 59-69.	3.5	42
1312	Lithium and sodium diffusion in solid electrolyte materials of AM ₂ (PO ₄) ₃ (A = Li, Na). <i>Tj ETQq</i> 0.0 0 rgBT 1/0 Overlock	0.0	0
1313	A significant alternative: Microwave-assisted preparation path of room temperature operated Na/S batteries. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 1142-1148.	0.3	2
1314	The Application of Nanostructure MoS ₂ Materials in Energy Storage and Conversion. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014, , 237-268.	0.4	6
1315	A Flexible micro-supercapacitor based on a pen ink-carbon fiber thread. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19665-19669.	5.2	69
1316	An excellent-responding ethanol sensor with quasi p-n heterojunction based on the composite material of Fe ₃ O ₄ and Cu ₂ O. <i>Journal of Molecular Liquids</i> , 2014, 198, 388-391.	2.3	7
1317	Simulation of Exit Selection Behavior Using Least Effort Algorithm. <i>Transportation Research Procedia</i> , 2014, 2, 533-540.	0.8	15
1318	Resultados clínicos a corto plazo de la sutura meniscal en pacientes asociados a seguros laborales. <i>Revista Espanola De Artroscopia Y Cirugia Articular</i> , 2014, 21, 101-108.	0.1	1
1319	Influence of TiN nanoparticles on the microstructure and properties of W matrix materials prepared by spark plasma sintering. <i>Journal of Nuclear Materials</i> , 2014, 454, 114-118.	1.3	10
1321	Observation of novel dielectric bistability in a nickel-dithiolene ion-pair compound. <i>Synthetic Metals</i> , 2014, 195, 294-298.	2.1	1
1322	Solar Cell Processing of Foil Produced by Epoxy-induced Spalling of Silicon. <i>Energy Procedia</i> , 2014, 55, 879-884.	1.8	5
1323	Adsorption and diffusion of lithium on 1T-MoS ₂ monolayer. <i>Computational Materials Science</i> , 2014, 93, 86-90.	1.4	62
1324	Porous Poly(5-Cyanoindole) Electrode with High Capacitance. <i>Advanced Materials Research</i> , 0, 1053, 235-239.	0.3	5

#	ARTICLE	IF	CITATIONS
1325	Charging of gold/metal oxide/gold nanocapacitors in a scanning electron microscope. <i>Nanotechnology</i> , 2014, 25, 155703.	1.3	1
1326	Polymer and Ionic Liquid Electrolytes for Advanced Lithium Batteries. <i>Nanostructure Science and Technology</i> , 2014, , 51-61.	0.1	1
1327	Tuning nondoped carbon nanotubes to an efficient metal-free electrocatalyst for oxygen reduction reaction by localizing the orbital of the nanotubes with topological defects. <i>Nanoscale</i> , 2014, 6, 14262-14269.	2.8	41
1328	Ni ₃ S ₂ coated ZnO array for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2014, 245, 463-467.	4.0	210
1329	Nickel-Cobalt Layered Double Hydroxide Nanosheets for High-performance Supercapacitor Electrode Materials. <i>Advanced Functional Materials</i> , 2014, 24, 934-942.	7.8	1,235
1330	Energy Storage from Dispersion Forces in Nanotubes. , 2014, , 789-806.		1
1331	Effects of adding ethanol to KOH electrolyte on electrochemical performance of titanium carbide-derived carbon. <i>Journal of Power Sources</i> , 2014, 246, 132-140.	4.0	35
1332	Three dimensional (3D) printed electrodes for interdigitated supercapacitors. <i>Electrochemistry Communications</i> , 2014, 41, 20-23.	2.3	179
1333	Rapid synthesis of three-dimensional flower-like cobalt sulfide hierarchitectures by microwave assisted heating method for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 123, 183-189.	2.6	143
1334	An efficient redox-mediated organic electrolyte for high-energy supercapacitor. <i>Journal of Power Sources</i> , 2014, 248, 1123-1126.	4.0	55
1335	Superior capacitive performances of binary nickel-cobalt hydroxide nanonetwork prepared by cathodic deposition. <i>Journal of Power Sources</i> , 2014, 253, 205-213.	4.0	110
1336	Ionomer content effects on the electrocatalyst layer with in-situ grown Pt nanowires in PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3219-3225.	3.8	19
1337	The supercapacitive behavior and excellent cycle stability of graphene/MnO ₂ composite prepared by an electrostatic self-assembly process. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16151-16161.	3.8	36
1338	In situ atomic force microscopy analysis of morphology and particle size changes in Lithium Iron Phosphate cathode during discharge. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 151-157.	5.0	34
1339	Electrochemical performance of graphitized carbide-derived-carbon with hierarchical micro- and meso-pores in alkaline electrolyte. <i>Carbon</i> , 2014, 74, 226-236.	5.4	33
1340	Characterization and catalytic performance of copper-based WGS catalysts derived from copper ferrite. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6424-6432.	3.8	57
1341	Polythiophene Mesoporous Birnessite-MnO ₂ /Pd Cathode Air Electrode for Rechargeable Li-Air Battery. <i>Electrochimica Acta</i> , 2014, 127, 410-415.	2.6	27
1342	Facile preparation of Ni ²⁺ -Ni(OH) ₂ -NiCo ₂ O ₄ hybrid nanostructure and its application in the electro-catalytic oxidation of methanol. <i>Electrochimica Acta</i> , 2014, 130, 368-380.	2.6	86

#	ARTICLE	IF	CITATIONS
1343	Graphite oxide functionalized with ionic liquid and ruthenium as hydrogenation catalyst. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17492-17500.	3.8	15
1344	Non-uniform temperature distribution in Li-ion batteries during discharge – A combined thermal imaging, X-ray micro-tomography and electrochemical impedance approach. <i>Journal of Power Sources</i> , 2014, 252, 51-57.	4.0	108
1345	DNA-templated synthesis of nickel cobaltite oxide nanoflake for high-performance electrochemical capacitors. <i>Electrochimica Acta</i> , 2014, 121, 270-277.	2.6	17
1346	Polyaniline and polyaniline-carbon black nanostructures as electrochemical capacitor electrode materials. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8582-8589.	3.8	37
1347	Poly(ortho-aminophenol)/graphene nanocomposite as an efficient supercapacitor electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 713, 103-111.	1.9	30
1348	Synthesis of Platinum Nanoparticles-Decorated Poly(p-Phenylenediamine) Colloids with a High Performance for Methanol Electrocatalysis for Direct Methanol Fuel Cells. <i>Journal of Cluster Science</i> , 2014, 25, 337-348.	1.7	10
1349	Long-term room-temperature hydrazine/air fuel cells based on low-cost nanotextured Cu–Ni catalysts. <i>Journal of Power Sources</i> , 2014, 246, 423-429.	4.0	49
1350	Charge Storage Capacity of Renewable Biopolymer/Conjugated Polymer Interpenetrating Networks Enhanced by Electroactive Dopants. <i>Advanced Energy Materials</i> , 2014, 4, 1300443.	10.2	67
1351	Insight into the Capacitive Performance of Sulfur-Doped Nanoporous Carbons Modified by Addition of Graphene Phase. <i>Electroanalysis</i> , 2014, 26, 109-120.	1.5	54
1352	A review of high energy density lithium–air battery technology. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 5-22.	1.5	172
1353	Fabrication of high-performance supercapacitors based on hollow SnO ₂ microspheres. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 909-916.	1.2	30
1354	Promoting performance and CO tolerance of Pt nanocatalyst for direct methanol fuel cells by supporting on high-surface-area silicon carbide. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 929-934.	1.2	22
1355	Mechanisms for Enhanced Performance of Platinum-Based Electrocatalysts in Proton Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , 2014, 7, 361-378.	3.6	86
1356	Tetrazole-based, Anhydrous Proton Exchange Membranes for Fuel Cells. <i>Advanced Materials</i> , 2014, 26, 1277-1282.	11.1	51
1357	The inherent kinetic electrochemical reduction of oxygen into H ₂ O on FeN ₄ -carbon: A density functional theory study. <i>Journal of Power Sources</i> , 2014, 255, 65-69.	4.0	83
1358	Recent progress on carbon-based support materials for electrocatalysts of direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6266-6291.	5.2	449
1359	Electrodeposited polyethylenedioxythiophene with infiltrated gel electrolyte interface: a close contest of an all-solid-state supercapacitor with its liquid-state counterpart. <i>Nanoscale</i> , 2014, 6, 5944.	2.8	85
1360	Efficient energy storage capabilities promoted by hierarchical MnCo ₂ O ₄ nanowire-based architectures. <i>RSC Advances</i> , 2014, 4, 17230.	1.7	60

#	ARTICLE	IF	CITATIONS
1361	Facile fabrication and perfect cycle stability of 3D NiO@CoMoO ₄ nanocomposite on Ni foam for supercapacitors. RSC Advances, 2014, 4, 17884.	1.7	51
1362	Influence of the Nickel Oxide Nanostructure Morphology on the Effectiveness of Reduced Graphene Oxide Coating in Supercapacitor Electrodes. Journal of Physical Chemistry C, 2014, 118, 2281-2286.	1.5	66
1363	Sulfurized activated carbon for high energy density supercapacitors. Journal of Power Sources, 2014, 252, 90-97.	4.0	135
1364	Computational Discovery, Characterization, and Design of Single-Layer Materials. Jom, 2014, 66, 366-374.	0.9	41
1365	Transforming Hair into Heteroatom-Doped Carbon with High Surface Area. Small, 2014, 10, 2625-2636.	5.2	138
1366	Electrochemical polymerization of polyaniline doped with Zn ²⁺ as the electrode material for electrochemical supercapacitors. Journal of Solid State Electrochemistry, 2014, 18, 813-819.	1.2	24
1367	Ultrasonic-assisted synthesis of magnetite/carbon nanocomposite for electrochemical supercapacitor. Journal of Solid State Electrochemistry, 2014, 18, 535-543.	1.2	25
1368	Quasi-solid-state pseudocapacitors using proton-conducting gel polymer electrolyte and poly(3-methyl thiophene)-ruthenium oxide composite electrodes. Journal of Solid State Electrochemistry, 2014, 18, 465-475.	1.2	20
1369	Nanomaterials for electrochemical energy storage. Frontiers of Physics, 2014, 9, 323-350.	2.4	86
1370	Facile Synthesis of Porous NiO Nanofibers for High-Performance Supercapacitors. Journal of Materials Engineering and Performance, 2014, 23, 679-683.	1.2	25
1371	Preparation of silver nanoparticles/graphene nanosheets as a catalyst for electrochemical oxidation of methanol. Applied Physics Letters, 2014, 104, .	1.5	34
1372	Graphene/MnO ₂ hybrid nanosheets as high performance electrode materials for supercapacitors. Materials Chemistry and Physics, 2014, 143, 740-746.	2.0	34
1373	New highly proton-conducting membrane based on sulfonated poly(arylene ether sulfone)s containing fluorophenyl pendant groups, for low-temperature polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2014, 39, 2639-2648.	3.8	33
1374	Spongelike Nanoporous Pd and Pd/Au Structures: Facile Synthesis and Enhanced Electrocatalytic Activity. Langmuir, 2014, 30, 3579-3588.	1.6	34
1375	Nitrogen-doped porous carbons through KOH activation with superior performance in supercapacitors. Carbon, 2014, 68, 185-194.	5.4	341
1376	Solvent and electrolyte effects on Ni ₂ N ₂ -catalyzed electrochemical oxidation of hydrogen. Chemical Communications, 2014, 50, 3681-3684.	2.2	21
1377	Synthesis of graphene/vitamin C template-controlled polyaniline nanotubes composite for high performance supercapacitor electrode. Polymer, 2014, 55, 798-805.	1.8	47
1378	Rapid and controllable synthesis of nitrogen doped reduced graphene oxide using microwave-assisted hydrothermal reaction for high power-density supercapacitors. Carbon, 2014, 73, 106-113.	5.4	105

#	ARTICLE	IF	CITATIONS
1379	Amorphous RuO ₂ coated on carbon spheres as excellent electrode materials for supercapacitors. RSC Advances, 2014, 4, 6927.	1.7	59
1380	A general approach for fabrication of nitrogen-doped graphene sheets and its application in supercapacitors. Journal of Colloid and Interface Science, 2014, 417, 270-277.	5.0	93
1381	Mesoporous carbon nanofibers with large cage-like pores activated by tin dioxide and their use in supercapacitor and catalyst support. Carbon, 2014, 70, 295-307.	5.4	111
1382	Energy Storing Electrical Cables: Integrating Energy Storage and Electrical Conduction. Advanced Materials, 2014, 26, 4279-4285.	11.1	195
1383	Flexible solid-state supercapacitors: design, fabrication and applications. Energy and Environmental Science, 2014, 7, 2160.	15.6	1,156
1384	High-performance supercapacitor electrode based on amorphous mesoporous Ni(OH) ₂ nanoboxes. Journal of Power Sources, 2014, 262, 344-348.	4.0	133
1385	A facile self-template strategy to fabricate three-dimensional nitrogen-doped hierarchical porous carbon/graphene for conductive agent-free supercapacitors with excellent electrochemical performance. Electrochimica Acta, 2014, 125, 330-337.	2.6	52
1386	Review on recent progress of nanostructured anode materials for Li-ion batteries. Journal of Power Sources, 2014, 257, 421-443.	4.0	1,794
1387	Transition Metal-Doped Polyaniline/Single-Walled Carbon Nanotubes Nanocomposites: Efficient Electrode Material for High Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2014, 2, 1114-1127.	3.2	91
1388	2D tin dioxide nanoplatelets decorated graphene with enhanced performance supercapacitor. Journal of Alloys and Compounds, 2014, 586, 353-359.	2.8	44
1389	Investigations on novel electrolytes, solvents and SEI additives for use in lithium-ion batteries: Systematic electrochemical characterization and detailed analysis by spectroscopic methods. Progress in Solid State Chemistry, 2014, 42, 65-84.	3.9	176
1390	Single-Crystalline LiFePO ₄ Nanosheets for High-Rate Li-Ion Batteries. Nano Letters, 2014, 14, 2849-2853.	4.5	308
1391	Synthesis and electrochemistry of polymer based electrolytes for Lithium batteries. Progress in Solid State Chemistry, 2014, 42, 85-105.	3.9	45
1392	Two dimensional nanomaterials for flexible supercapacitors. Chemical Society Reviews, 2014, 43, 3303.	18.7	978
1393	Titanium Oxide Nanosheets: Graphene Analogues with Versatile Functionalities. Chemical Reviews, 2014, 114, 9455-9486.	23.0	557
1394	In Situ Hydrothermal Synthesis of Mn ₃ O ₄ Nanoparticles on Nitrogen-doped Graphene as High-Performance Anode materials for Lithium Ion Batteries. Electrochimica Acta, 2014, 120, 452-459.	2.6	145
1395	Facile construction of Mn ₃ O ₄ nanorods coated by a layer of nitrogen-doped carbon with high activity for oxygen reduction reaction. Nano Energy, 2014, 6, 44-50.	8.2	62
1396	Synthesis of mesh-like Fe ₂ O ₃ /C nanocomposite via greener route for high performance supercapacitors. RSC Advances, 2014, 4, 4631-4637.	1.7	64

#	ARTICLE	IF	CITATIONS
1397	Electrospun Functional Nanofibers and Their Applications in Chemical Sensors and Li-Ion Batteries. , 2014, , 793-838.		4
1398	Three-Dimensional Self-Supported Metal Oxides for Advanced Energy Storage. <i>Advanced Materials</i> , 2014, 26, 3368-3397.	11.1	446
1399	Synthesis of high-performance polyaniline/graphene oxide nanocomposites. <i>High Performance Polymers</i> , 2014, 26, 790-797.	0.8	16
1400	Oxygen Reduction Reaction Studies of Phosphorus and Nitrogen Co-Doped Mesoporous Carbon Synthesized via Microwave Technique. <i>ChemElectroChem</i> , 2014, 1, 573-579.	1.7	67
1401	Mesoporous MnCo ₂ O ₄ with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8676-8682.	5.2	227
1402	Three-dimensional metal/oxide nanocone arrays for high-performance electrochemical pseudocapacitors. <i>Nanoscale</i> , 2014, 6, 3626-3631.	2.8	57
1403	Polyaniline based electrodes for electrochemical supercapacitor: Synergistic effect of silver, activated carbon and polyaniline. <i>Journal of Electroanalytical Chemistry</i> , 2014, 724, 21-28.	1.9	47
1404	Microwave hydrothermal synthesis of urchin-like NiO nanospheres as electrode materials for lithium-ion batteries and supercapacitors with enhanced electrochemical performances. <i>Journal of Alloys and Compounds</i> , 2014, 582, 522-527.	2.8	48
1405	Nano-Copper-Assisted Immobilization of Sulfur in High-Surface-Area Mesoporous Carbon Cathodes for Room Temperature Na Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400226.	10.2	117
1406	Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. <i>Synthetic Metals</i> , 2014, 193, 110-116.	2.1	24
1407	MoO ₃ /PANI coaxial heterostructure nanobelts by in situ polymerization for high performance supercapacitors. <i>Nano Energy</i> , 2014, 7, 72-79.	8.2	150
1408	Graphynes as Promising Cathode Material of Fuel Cell: Improvement of Oxygen Reduction Efficiency. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12035-12040.	1.5	66
1409	A Flexible and High-Voltage Internal Tandem Supercapacitor Based on Graphene-Based Porous Materials with Ultrahigh Energy Density. <i>Small</i> , 2014, 10, 2285-2292.	5.2	56
1410	Nanostructured conductive polypyrrole hydrogels as high-performance, flexible supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6086-6091.	5.2	624
1411	Kirkendall Effect Induced One-Step Fabrication of Tubular Ag/MnO _x Nanocomposites for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6604-6611.	1.5	55
1412	A Simple Diazonium Coupling Reaction Enhances Durability of Modified Graphitic Carbons Used as Catalyst Supports for Polymer Electrolyte Membrane Fuel Cell. <i>Electrochimica Acta</i> , 2014, 134, 418-425.	2.6	11
1413	High performance solid-state supercapacitor with PVA-KOH-K ₃ [Fe(CN) ₆] gel polymer as electrolyte and separator. <i>Journal of Power Sources</i> , 2014, 256, 281-287.	4.0	170
1414	Crystal structure and multicomponent effects in Tetrahedral Silicate Cathode Materials for Rechargeable Li-ion Batteries. <i>Electrochimica Acta</i> , 2014, 121, 434-442.	2.6	5

#	ARTICLE	IF	CITATIONS
1415	Pt Catalyst Supported within TiO ₂ Mesoporous Films for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2014, 130, 97-103.	2.6	27
1416	RuO ₂ /graphene hybrid material for high performance electrochemical capacitor. <i>Journal of Power Sources</i> , 2014, 248, 407-415.	4.0	120
1417	Template-synthesis of hierarchical Ni(OH) ₂ hollow spheres with excellent performance as supercapacitor. <i>Materials Letters</i> , 2014, 128, 136-139.	1.3	24
1418	One-step conversion from metal-organic frameworks to Co ₃ O ₄ @N-doped carbon nanocomposites towards highly efficient oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8184.	5.2	130
1419	Enhanced capacitance and stability of p-toluenesulfonate doped polypyrrole/carbon composite for electrode application in electrochemical capacitors. <i>Journal of Power Sources</i> , 2014, 246, 800-807.	4.0	78
1420	Facile fabrication of poly(o-methoxyaniline)-modified graphene hybrid material as a highly active catalyst support for methanol oxidation. <i>RSC Advances</i> , 2014, 4, 24156.	1.7	12
1421	Ultramicroporous Carbon Nanoparticles for the High-Performance Electrical Double-Layer Capacitor Electrode. <i>Energy & Fuels</i> , 2014, 28, 1561-1568.	2.5	86
1422	Nitrogen-doped hollow carbon hemispheres as efficient metal-free electrocatalysts for oxygen reduction reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2014, 2, 605-609.	5.2	79
1423	From assembled metal-organic framework nanoparticles to hierarchically porous carbon for electrochemical energy storage. <i>Chemical Communications</i> , 2014, 50, 1519-1522.	2.2	329
1424	Inkjet-printed energy storage device using graphene/polyaniline inks. <i>Journal of Power Sources</i> , 2014, 248, 483-488.	4.0	182
1425	Facile synthesis and magnetic properties of manganese dioxide nanowires. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 120-125.	1.3	3
1426	Amorphous Cobalt Hydroxide with Superior Pseudocapacitive Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 745-749.	4.0	155
1427	Electronspun nanofiber network anode for a passive direct methanol fuel cell. <i>Journal of Power Sources</i> , 2014, 255, 70-75.	4.0	35
1428	A design optimization methodology for Li ⁺ batteries. <i>Journal of Power Sources</i> , 2014, 253, 239-250.	4.0	64
1429	Novel hybrid nanocomposite based on poly(3,4-ethylenedioxythiophene)/multiwalled carbon nanotubes/graphene as electrode material for supercapacitor. <i>Synthetic Metals</i> , 2014, 189, 69-76.	2.1	56
1430	High-performance bi-functional electrocatalysts of 3D crumpled graphene-cobalt oxide nano hybrids for oxygen reduction and evolution reactions. <i>Energy and Environmental Science</i> , 2014, 7, 609-616.	15.6	605
1431	Facile growth of heparin-controlled porous polyaniline nanofiber networks and their application in supercapacitors. <i>RSC Advances</i> , 2014, 4, 5188.	1.7	34
1432	Facile synthesis of ZnWO ₄ nanowall arrays on Ni foam for high performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 4212-4217.	1.7	46

#	ARTICLE	IF	CITATIONS
1433	Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3209-3215.	5.2	61
1434	A CO-tolerant PtRu catalyst supported on thiol-functionalized carbon nanotubes for the methanol oxidation reaction. <i>Journal of Power Sources</i> , 2014, 247, 360-364.	4.0	47
1435	CoO nanoflowers woven by CNT network for high energy density flexible micro-supercapacitor. <i>Nano Energy</i> , 2014, 3, 46-54.	8.2	185
1436	Facile synthesis of mesoporous nitrogen-doped graphene: An efficient methanol-tolerant cathodic catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2014, 3, 55-63.	8.2	183
1437	High performance porous nickel cobalt oxide nanowires for asymmetric supercapacitor. <i>Nano Energy</i> , 2014, 3, 119-126.	8.2	304
1438	Nitrogen-Doped Hierarchical Lamellar Porous Carbon Synthesized from the Fish Scale As Support Material for Platinum Nanoparticle Electrocatalyst toward the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 819-825.	4.0	36
1439	Facile Synthesis of Gold-Nanoparticle-Decorated $Gd_{0.3}Ce_{0.7}O_{1.9}$ Nanotubes with Enhanced Catalytic Activity for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 847-853.	4.0	31
1440	Non-aqueous hybrid supercapacitors fabricated with mesoporous TiO ₂ microspheres and activated carbon electrodes with superior performance. <i>Journal of Power Sources</i> , 2014, 253, 80-89.	4.0	73
1441	MoS ₂ . <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014, , .	0.4	42
1442	Nanoscale Technology for Advanced Lithium Batteries. <i>Nanostructure Science and Technology</i> , 2014, , .	0.1	6
1443	Facile synthesis of three-dimensional porous carbon with high surface area by calcining metal-organic framework for lithium-ion batteries anode materials. <i>RSC Advances</i> , 2014, 4, 61604-61610.	1.7	49
1444	Theoretical design of MoO ₃ -based high-rate lithium ion battery electrodes: the effect of dimensionality reduction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19180-19188.	5.2	32
1445	Synchrotron-based Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Synchrotron Radiation News</i> , 2014, 27, 14-23.	0.2	27
1446	Inhibition on polysulfides dissolve during the discharge-charge by using fish-scale-based porous carbon for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2014, 149, 258-263.	2.6	15
1447	In Situ Synthesis and Characterization of Polypyrrole/Graphene Conductive Nanocomposites via Electrochemical Polymerization and Chemical Reduction. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 1116-1127.	0.4	8
1448	Energy-Density Enhancement of Carbon-Nanotube-Based Supercapacitors with Redox Couple in Organic Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19499-19503.	4.0	53
1449	New Insights into the Electronic Transport of Reduced Graphene Oxide Using Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4162-4166.	2.1	13
1450	Sulfur, Trace Nitrogen and Iron Codoped Hierarchically Porous Carbon Foams as Synergistic Catalysts for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21454-21460.	4.0	56

#	ARTICLE	IF	CITATIONS
1451	Synthesis of nanofiber-composed dandelion-like CoNiAl triple hydroxide as an electrode material for high-performance supercapacitor. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	12
1452	<i>Ab Initio</i> Study of Thin Oxide–Metal Overlayers as an Inverse Catalytic System for Dioxygen Reduction and Enhanced CO Tolerance. <i>ACS Catalysis</i> , 2014, 4, 4074-4080.	5.5	42
1453	Reversible Conversion-Alloying of Sb ₂ O ₃ as a High-Capacity, High-Rate, and Durable Anode for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19449-19455.	4.0	143
1454	Mussel-inspired nitrogen-doped graphene nanosheet supported manganese oxide nanowires as highly efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6167.	5.2	41
1455	Cobalt nanoparticles embedded in N-doped carbon as an efficient bifunctional electrocatalyst for oxygen reduction and evolution reactions. <i>Nanoscale</i> , 2014, 6, 15080-15089.	2.8	509
1456	Si@SiO ₂ nanowires/carbon textiles cable-type anodes for high-capacity reversible lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 18391.	1.7	11
1457	Self-assembling few-layer MoS ₂ nanosheets on a CNT backbone for high-rate and long-life lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 40368-40372.	1.7	35
1458	KOH self-templating synthesis of three-dimensional hierarchical porous carbon materials for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14844.	5.2	156
1459	Ultimate Limits to Intercalation Reactions for Lithium Batteries. <i>Chemical Reviews</i> , 2014, 114, 11414-11443.	23.0	920
1460	Hierarchical mesoporous CoS ₂ microspheres: Morphology-controlled synthesis and their superior pseudocapacitive properties. <i>Electrochimica Acta</i> , 2014, 149, 285-292.	2.6	45
1461	Multiwalled carbon nanotubes coated with a thin carbon layer for use as composite electrodes in supercapacitors. <i>RSC Advances</i> , 2014, 4, 47827-47832.	1.7	8
1462	The effect of sulfonic acid group content in pore-filled silica colloidal membranes on their proton conductivity and direct methanol fuel cell performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12761.	5.2	19
1463	Flexible and high performing polymer electrolytes obtained by UV-induced polymer–cellulose grafting. <i>RSC Advances</i> , 2014, 4, 40873-40881.	1.7	14
1464	MnO ₂ nanolayers on highly conductive TiO _{0.54} N _{0.46} nanotubes for supercapacitor electrodes with high power density and cyclic stability. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8521.	1.3	21
1465	Solvothermal synthesis of magnetic copper nitride nanocubes with highly electrocatalytic reduction properties. <i>RSC Advances</i> , 2014, 4, 14206-14209.	1.7	30
1466	Promising electrochemical hydrogen storage properties of thick Mg–Pd films obtained by insertion of thin Ti interlayers. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3001.	1.3	15
1468	A channel-type mesoporous In(III)-carboxylate coordination framework with high physicochemical stability for use as an electrode material in supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9828-9834.	5.2	124
1469	Improving the performance of PEDOT-PSS coated sulfur@activated porous graphene composite cathodes for lithium–sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18345-18352.	5.2	81

#	ARTICLE	IF	CITATIONS
1470	A conducting polymer nucleation scheme for efficient solid-state supercapacitors on paper. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17058-17065.	5.2	48
1471	Studies in the capacitance properties of diaminoalkane-intercalated graphene. <i>Electrochimica Acta</i> , 2014, 148, 220-227.	2.6	6
1472	Facile synthesis of MnO ₂ /polyaniline nanorod arrays based on graphene and its electrochemical performance. <i>Synthetic Metals</i> , 2014, 198, 167-174.	2.1	52
1473	A rational design of carbon-supported dispersive Pt-based octahedra as efficient oxygen reduction reaction catalysts. <i>Energy and Environmental Science</i> , 2014, 7, 2957-2962.	15.6	172
1474	Ordered multimodal porous carbon with hierarchical nanostructure as high performance electrode material for supercapacitors. <i>RSC Advances</i> , 2014, 4, 38931-38938.	1.7	12
1475	Enhanced electrical capacitance of heteroatom-decorated nanoporous carbon nanofiber composites containing graphene. <i>Electrochimica Acta</i> , 2014, 137, 781-788.	2.6	23
1476	Direct Comparison of Electrochemical and Spectrochemical Kinetics for Catalytic Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2014, 136, 12544-12547.	6.6	98
1477	Nitrogen-doped porous carbon nanosheets made from biomass as highly active electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2014, 272, 8-15.	4.0	198
1478	Rationally designed hierarchical MnO ₂ -shell/ZnO-nanowire/carbon-fabric for high-performance supercapacitor electrodes. <i>Journal of Power Sources</i> , 2014, 272, 654-660.	4.0	41
1479	Low-cost Nanomaterials. <i>Green Energy and Technology</i> , 2014, , .	0.4	16
1480	Synthesis and electrocatalytic properties of PtBi nanoplatelets and PdBi nanowires. <i>Nanoscale</i> , 2014, 6, 1049-1055.	2.8	109
1481	Activation Mechanism Study of Dandelion-Like Co ₉ S ₈ Nanotubes in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2014, 161, A996-A1000.	1.3	53
1482	LiV ₃ O ₈ nanorods as cathode materials for high-power and long-life rechargeable lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 25494-25501.	1.7	33
1483	Graphene-Based Porous Catalyst with High Stability and Activity for the Methanol Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25918-25923.	1.5	18
1484	TPPi as a flame retardant for rechargeable lithium batteries with sulfur composite cathodes. <i>Chemical Communications</i> , 2014, 50, 7011-7013.	2.2	52
1485	Ionic conductivity of mesoporous electrolytes with a high density of pyridinium groups within their framework. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9960.	5.2	13
1486	Synthesis of amorphous cobalt sulfide polyhedral nanocages for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8603-8606.	5.2	258
1487	Effect of temperature on the performance of ultrafine MnO ₂ nanobelt supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1443-1447.	5.2	108

#	ARTICLE	IF	CITATIONS
1488	Self-Supported Metallic Nanopore Arrays with Highly Oriented Nanoporous Structures as Ideally Nanostructured Electrodes for Supercapacitor Applications. <i>Advanced Materials</i> , 2014, 26, 7654-7659.	11.1	97
1489	Benzylamine-directed growth of olivine-type LiMPO_4 nanoplates by a supercritical ethanol process for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17400-17407.	5.2	28
1490	Functionalization of graphene with nitrogen using ethylenediaminetetraacetic acid and their electrochemical energy storage properties. <i>RSC Advances</i> , 2014, 4, 24248.	1.7	20
1491	3D core-shell architecture from infiltration and beneficial reactive sintering as highly efficient and thermally stable oxygen reduction electrode. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1284-1293.	5.2	44
1492	A 3D hierarchical hybrid nanostructure of carbon nanotubes and activated carbon for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3505.	5.2	36
1493	3D network-like mesoporous NiCo_2O_4 nanostructures as advanced electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2014, 149, 144-151.	2.6	72
1494	$\text{MnMoO}_4 \cdot 4\text{H}_2\text{O}$ nanoplates grown on a Ni foam substrate for excellent electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20723-20728.	5.2	111
1495	Storylines in intercalation chemistry. <i>Dalton Transactions</i> , 2014, 43, 10276-10291.	1.6	85
1496	A dramatic platform for oxygen reduction reaction based on silver nanoclusters. <i>Chemical Communications</i> , 2014, 50, 234-236.	2.2	44
1497	Binder-free phenyl sulfonated graphene/sulfur electrodes with excellent cyclability for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5117.	5.2	70
1498	Nitrogen- and oxygen-containing activated carbon nanotubes with improved capacitive properties. <i>RSC Advances</i> , 2014, 4, 5524.	1.7	52
1499	Sandwich-structured MnO_2 /polypyrrole/reduced graphene oxide hybrid composites for high-performance supercapacitors. <i>RSC Advances</i> , 2014, 4, 9898-9904.	1.7	113
1500	Rationally designed hierarchical $\text{ZnCo}_2\text{O}_4/\text{Ni}(\text{OH})_2$ nanostructures for high-performance pseudocapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20462-20469.	5.2	67
1501	A mild route to mesoporous Mo_2C hybrid nanospheres for high performance lithium-ion batteries. <i>Nanoscale</i> , 2014, 6, 6151.	2.8	183
1502	Nitrogen-enriched carbon from bamboo fungus with superior oxygen reduction reaction activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18263-18270.	5.2	78
1503	A novel poly(2,6-dimethyl-1,4-phenylene oxide) with pendant imidazolium groups for high-temperature proton exchange membrane. <i>Polymer Chemistry</i> , 2014, 5, 2425.	1.9	27
1504	Active Sites and Mechanisms for Oxygen Reduction Reaction on Nitrogen-Doped Carbon Alloy Catalysts: Stone-Wales Defect and Curvature Effect. <i>Journal of the American Chemical Society</i> , 2014, 136, 13629-13640.	6.6	273
1505	Engineering hybrid between nickel oxide and nickel cobaltate to achieve exceptionally high activity for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2014, 272, 808-815.	4.0	36

#	ARTICLE	IF	CITATIONS
1506	In situ preparation of SnO ₂ @polyaniline nanocomposites and their synergetic structure for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8334.	5.2	83
1507	Lithium Species in Electrochemically Lithiated and Delithiated Silicon Oxycarbides. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12827-12836.	4.0	35
1508	Debye Length Dependence of the Anomalous Dynamics of Ionic Double Layers in a Parallel Plate Capacitor. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11584-11592.	1.5	42
1509	Cross-linked multiblock copoly(arylene ether sulfone) ionomer/nano-ZrO ₂ composite anion exchange membranes for alkaline fuel cells. <i>RSC Advances</i> , 2014, 4, 41398-41410.	1.7	49
1510	High performance supercapacitor based on Ni ₃ S ₂ /carbon nanofibers and carbon nanofibers electrodes derived from bacterial cellulose. <i>Journal of Power Sources</i> , 2014, 272, 137-143.	4.0	142
1511	Ionic and Electronic Mobility in Multicomponent Olivine Silicate Cathode Materials for Li-ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1461-A1467.	1.3	4
1512	Selective adsorption of palladium complex for carbon-supported Pd/Mo electrocatalyst by the charge enhanced dry impregnation method. <i>Journal of Power Sources</i> , 2014, 272, 1030-1036.	4.0	3
1513	Facilely constructing 3D porous NiCo ₂ S ₄ nanonetworks for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2014, 38, 4045.	1.4	140
1514	ZnCl ₂ -activated porous carbon spheres with high surface area and superior mesoporous structure as an efficient supercapacitor electrode. <i>RSC Advances</i> , 2014, 4, 40546-40552.	1.7	62
1515	Understanding the effect of polypyrrole and poly(3,4-ethylenedioxythiophene) on enhancing the supercapacitor performance of NiCo ₂ O ₄ electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16731-16739.	5.2	70
1516	Stretchable Energy Storage and Conversion Devices. <i>Small</i> , 2014, 10, 3443-3460.	5.2	126
1517	A new type of ordered mesoporous carbon/polyaniline composites prepared by a two-step nanocasting method for high performance supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16715-16722.	5.2	40
1518	Nitrogen-doped Graphene Hollow Microspheres as an Efficient Electrode Material for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014, 146, 455-463.	2.6	56
1519	Nitrogen Modified-Reduced Graphene Oxide Supports for Catalysts for Fuel Cells and Their Electrocatalytic Activity. <i>Journal of the Electrochemical Society</i> , 2014, 161, F518-F524.	1.3	16
1520	ZIF-derived in situ nitrogen-doped porous carbons as efficient metal-free electrocatalysts for oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2014, 7, 442-450.	15.6	719
1521	Mechanically strong high performance layered polypyrrole nano fibre/graphene film for flexible solid state supercapacitor. <i>Carbon</i> , 2014, 79, 554-562.	5.4	109
1522	Shape-controlled porous nanocarbons for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5236.	5.2	53
1523	Nonrigid Band Behavior of the Electronic Structure of LiCoO ₂ Thin Film during Electrochemical Li Deintercalation. <i>Chemistry of Materials</i> , 2014, 26, 3948-3956.	3.2	111

#	ARTICLE	IF	CITATIONS
1524	Nanoarchitected Graphene-Based Supercapacitors for Next-Generation Energy Storage Applications. Chemistry - A European Journal, 2014, 20, 13838-13852.	1.7	274
1525	One-step synthesis of hierarchical ZnCo ₂ O ₄ @ZnCo ₂ O ₄ core-shell nanosheet arrays on nickel foam for electrochemical capacitors. RSC Advances, 2014, 4, 38073.	1.7	24
1526	3D conductive network-based free-standing PANI-RGO-MWNTs hybrid film for high-performance flexible supercapacitor. Journal of Materials Chemistry A, 2014, 2, 12340-12347.	5.2	92
1527	Porous inorganic nanostructures with colloidal dimensions: synthesis and applications in electrochemical energy devices. Chemical Communications, 2014, 50, 2077-2088.	2.2	24
1528	Interconnected Network of MnO ₂ Nanowires with a "Coconlike" Morphology: Redox Couple-Mediated Performance Enhancement in Symmetric Aqueous Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 10754-10762.	4.0	154
1529	How the electrochemical reversibility of a battery-type material affects the charge balance and performances of asymmetric supercapacitors. Electrochimica Acta, 2014, 146, 759-768.	2.6	47
1530	A REVIEW OF METAL OXIDE COMPOSITE ELECTRODE MATERIALS FOR ELECTROCHEMICAL CAPACITORS. Nano, 2014, 09, 1430002.	0.5	141
1531	High-Valent Chromium Oxo Complex Acting as an Efficient Catalyst Precursor for Selective Two-Electron Reduction of Dioxygen by a Ferrocene Derivative. Inorganic Chemistry, 2014, 53, 7780-7788.	1.9	49
1532	MnO ₂ nanosilks self-assembled micropowders: Facile one-step hydrothermal synthesis and their application as supercapacitor electrodes. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2995-2999.	2.7	12
1533	Facile one-step hydrothermal syntheses and supercapacitive performances of reduced graphene oxide/MnO ₂ composites. Composites Science and Technology, 2014, 103, 113-118.	3.8	18
1534	Energy sustainability, stakeholder conflicts, and the future of hydrogen in Denmark. Renewable and Sustainable Energy Reviews, 2014, 39, 891-897.	8.2	24
1535	Carbon coated nickel sulfide/reduced graphene oxide nanocomposites: facile synthesis and excellent supercapacitor performance. Electrochimica Acta, 2014, 146, 525-532.	2.6	50
1536	Surfactant free gram scale synthesis of mesoporous Ni(OH) ₂ -r-GO nanocomposite for high rate pseudocapacitor application. RSC Advances, 2014, 4, 39875.	1.7	30
1537	Advances and challenges for flexible energy storage and conversion devices and systems. Energy and Environmental Science, 2014, 7, 2101.	15.6	767
1538	Preparation of Partially Reduced Graphene Oxide Nanosheets/Poly(Sodium 4-Styrenesulfonate) Composite with High Capacitance. Electrochimica Acta, 2014, 147, 257-264.	2.6	9
1539	Facile synthesis of Co ₃ O ₄ @NiCo ₂ O ₄ core-shell arrays on Ni foam for advanced binder-free supercapacitor electrodes. Ceramics International, 2014, 40, 15641-15646.	2.3	46
1540	An Electrochemical Quartz Crystal Microbalance Study of a Prospective Alkaline Anion Exchange Membrane Material for Fuel Cells: Anion Exchange Dynamics and Membrane Swelling. Journal of the American Chemical Society, 2014, 136, 5309-5322.	6.6	43
1541	Sulfonated graphene oxide-silica for highly selective Nafion-based proton exchange membranes. Journal of Materials Chemistry A, 2014, 2, 16083-16092.	5.2	114

#	ARTICLE	IF	CITATIONS
1542	Competition between CO ₂ Reduction and H ₂ Evolution on Transition-Metal Electrocatalysts. ACS Catalysis, 2014, 4, 3742-3748.	5.5	378
1543	Defect dipping combined with electrochemical reduction to obtain 3D electrochemical reduction graphene oxide and its applications in supercapacitors. Journal of Materials Chemistry A, 2014, 2, 1137-1143.	5.2	35
1544	A Nanosheets-on-Channel Architecture Constructed from MoS ₂ and CMK-3 for High-Capacity and Long-Cycle-Life Lithium Storage. Advanced Energy Materials, 2014, 4, 1400902.	10.2	180
1545	Nitrogen-Enriched Hierarchically Porous Carbons Prepared from Polybenzoxazine for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 15583-15596.	4.0	189
1546	Surface modification of cathodes with nanosized amorphous MnO ₂ coating for high-power application in lithium-ion batteries. Journal of Electroanalytical Chemistry, 2014, 728, 34-40.	1.9	26
1547	Fabrication of SDBS intercalated-reduced graphene oxide/polypyrrole nanocomposites for supercapacitors. Synthetic Metals, 2014, 196, 1-7.	2.1	22
1548	Microwave-assisted synthesis of spherical Ni(OH) ₂ superstructures for electrochemical capacitors with excellent cycling stability. Chemical Physics Letters, 2014, 610-611, 115-120.	1.2	25
1549	Influence of overcharge and over-discharge on the impedance response of LiCoO ₂ /MnO ₂ batteries. Journal of Power Sources, 2014, 270, 92-100.	4.0	63
1550	A Facile One-Pot Preparation of Dialdehyde Starch Reduced Graphene Oxide/Polyaniline Composite for Supercapacitors. Electrochimica Acta, 2014, 139, 117-126.	2.6	64
1551	A new future for carbohydrate fuel cells. Renewable Energy, 2014, 72, 99-104.	4.3	40
1552	Toward New Fuel Cell Support Materials: A Theoretical and Experimental Study of Nitrogen-Doped Graphene. ChemSusChem, 2014, 7, 2609-2620.	3.6	45
1553	Self-Assembled Multilayer Films of Sulfonated Graphene and Polystyrene-Based Diazonium Salt as Photo-Cross-Linkable Supercapacitor Electrodes. Langmuir, 2014, 30, 522-532.	1.6	46
1554	Selective Ultrathin Carbon Sheath on Porous Silicon Nanowires: Materials for Extremely High Energy Density Planar Micro-Supercapacitors. Nano Letters, 2014, 14, 1843-1847.	4.5	96
1555	Selective Wetting-Induced Micro-Electrode Patterning for Flexible Micro-Supercapacitors. Advanced Materials, 2014, 26, 5108-5112.	11.1	146
1556	Iron selenide nanoparticles coated on carbon nanotubes from single source ferrocene incorporated selenourea precursor for fuel cell and photocatalytic applications. Journal of Organometallic Chemistry, 2014, 769, 58-63.	0.8	26
1557	Holey graphene frameworks for highly efficient capacitive energy storage. Nature Communications, 2014, 5, 4554.	5.8	1,161
1558	Hierarchical Core-Shell Structure of ZnO Nanorod@NiO/MoO ₂ Composite Nanosheet Arrays for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 13564-13570.	4.0	77
1559	In situ synthesis of SWNTs@MnO ₂ /polypyrrole hybrid film as binder-free supercapacitor electrode. Nano Energy, 2014, 9, 245-251.	8.2	89

#	ARTICLE	IF	CITATIONS
1560	Nitrogen-doped graphdiyne as a metal-free catalyst for high-performance oxygen reduction reactions. <i>Nanoscale</i> , 2014, 6, 11336-11343.	2.8	229
1561	From Waste Paper Basket to Solid State and Li ⁺ /HEC Ultracapacitor Electrodes: A Value Added Journey for Shredded Office Paper. <i>Small</i> , 2014, 10, 4395-4402.	5.2	73
1562	Direct Observation of Active Material Concentration Gradients and Crystallinity Breakdown in LiFePO ₄ Electrodes During Charge/Discharge Cycling of Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6548-6557.	1.5	36
1563	Biomolecule ⁺ -Doped PEDOT with Three ⁺ -Dimensional Nanostructures as Efficient Catalyst for Oxygen Reduction Reaction. <i>Small</i> , 2014, 10, 2087-2095.	5.2	40
1564	Cobalt-based compounds and composites as electrode materials for high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17212-17248.	5.2	163
1565	One-Step Electrodeposited Nickel Cobalt Sulfide Nanosheet Arrays for High-Performance Asymmetric Supercapacitors. <i>ACS Nano</i> , 2014, 8, 9531-9541.	7.3	687
1566	3D ordered nanoporous NiMoO ₄ for high-performance supercapacitor electrode materials. <i>RSC Advances</i> , 2014, 4, 52555-52561.	1.7	74
1567	Anodization driven synthesis of nickel oxalate nanostructures with excellent performance for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17307-17313.	5.2	44
1568	Solution processed sun baked electrode material for flexible supercapacitors. <i>RSC Advances</i> , 2014, 4, 20281-20289.	1.7	11
1569	High-performance aqueous battery with double hierarchical nanoarrays. <i>Nano Energy</i> , 2014, 10, 229-234.	8.2	24
1570	Synthesis and electrochemical performance of Co ₃ O ₄ /graphene. <i>Chemical Research in Chinese Universities</i> , 2014, 30, 650-655.	1.3	13
1571	Metal ⁺ -organic framework templated nitrogen and sulfur co-doped porous carbons as highly efficient metal-free electrocatalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6316-6319.	5.2	179
1572	Three dimensional N-doped graphene/PtRu nanoparticle hybrids as high performance anode for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3719.	5.2	183
1573	Nitrogen-enriched, double-shelled carbon/layered double hydroxide hollow microspheres for excellent electrochemical performance. <i>Nanoscale</i> , 2014, 6, 10887-10895.	2.8	74
1574	Template-free synthesis of mesoporous MnO ₂ under ultrasound irradiation for supercapacitor electrode. <i>Materials Letters</i> , 2014, 137, 206-209.	1.3	16
1575	A nickel foam supported copper core/nickel oxide shell composite for supercapacitor applications. <i>Microporous and Mesoporous Materials</i> , 2014, 200, 61-67.	2.2	39
1576	Ultra-high capacitance hematite thin films with controlled nanoscopic morphologies. <i>Nanoscale</i> , 2014, 6, 10643-10649.	2.8	22
1577	Highly Reversible and Large Lithium Storage in Mesoporous Si/C Nanocomposite Anodes with Silicon Nanoparticles Embedded in a Carbon Framework. <i>Advanced Materials</i> , 2014, 26, 6749-6755.	11.1	260

#	ARTICLE	IF	CITATIONS
1578	Lithium-ion Battery Materials and Engineering. Green Energy and Technology, 2014, , .	0.4	24
1579	Theoretical insight into highly durable iron phthalocyanine derived non-precious catalysts for oxygen reduction reactions. Journal of Materials Chemistry A, 2014, 2, 19707-19716.	5.2	52
1580	Strongly Coupled Pd Nanotetrahedron/Tungsten Oxide Nanosheet Hybrids with Enhanced Catalytic Activity and Stability as Oxygen Reduction Electrocatalysts. Journal of the American Chemical Society, 2014, 136, 11687-11697.	6.6	314
1581	Synthesis and Reactivity of Tripodal Complexes Containing Pendant Bases. Inorganic Chemistry, 2014, 53, 9242-9253.	1.9	16
1582	Partially graphitized ordered mesoporous carbons for high-rate supercapacitors. Journal of Solid State Electrochemistry, 2014, 18, 2175-2182.	1.2	7
1583	Facilely prepared polypyrrole-graphene oxide-sodium dodecylbenzene sulfonate nanocomposites by in situ emulsion polymerization for high-performance supercapacitor electrodes. Journal of Solid State Electrochemistry, 2014, 18, 2139-2147.	1.2	17
1584	Co ₃ O ₄ /SiO ₂ nanocomposites for supercapacitor application. Journal of Solid State Electrochemistry, 2014, 18, 2505-2512.	1.2	103
1585	Reduced graphene oxide/Ni _{1-x} Co _x Al-layered double hydroxide composites: preparation and high supercapacitor performance. Dalton Transactions, 2014, 43, 11667-11675.	1.6	121
1586	Graphene-based three-dimensional hierarchical sandwich-type architecture for high performance supercapacitors. RSC Advances, 2014, 4, 8466-8471.	1.7	42
1587	One-Dimensional Titanium Dioxide Nanomaterials: Nanowires, Nanorods, and Nanobelts. Chemical Reviews, 2014, 114, 9346-9384.	23.0	601
1588	Solution combustion synthesis of cobalt oxides (Co ₃ O ₄ and Co ₃ O ₄ /CoO) nanoparticles as supercapacitor electrode materials. Electrochimica Acta, 2014, 132, 127-135.	2.6	183
1589	Electrocapacitive performance of graphene/Co ₃ O ₄ hybrid material prepared by a nanosheet assembly route. Electrochimica Acta, 2014, 119, 184-191.	2.6	48
1590	Intercalating graphene with clusters of Fe ₃ O ₄ nanocrystals for electrochemical supercapacitors. Materials Research Express, 2014, 1, 025015.	0.8	59
1591	Cellulose nanofiber/single-walled carbon nanotube hybrid non-woven macrofiber mats as novel wearable supercapacitors with excellent stability, tailorability and reliability. Nanoscale, 2014, 6, 4083.	2.8	88
1592	Preparation and characterization of coaxial multiwalled carbon nanotubes/polyaniline tubular nanocomposites for electrochemical energy storage in the presence of sodium alginate. Synthetic Metals, 2014, 193, 48-57.	2.1	45
1593	Redox Solute Doped Polypyrrole for High-Charge Capacity Polymer Electrodes. Chemistry of Materials, 2014, 26, 1601-1607.	3.2	56
1594	Ordered Assembly of NiCo ₂ O ₄ Multiple Hierarchical Structures for High-Performance Pseudocapacitors. ACS Applied Materials & Interfaces, 2014, 6, 11394-11402.	4.0	131
1595	Facile construction of ultrathin standing Ni(OH) ₂ nanosheets on halloysite nanotubes and their enhanced electrochemical capacitance. Journal of Materials Chemistry A, 2014, 2, 11299-11304.	5.2	46

#	ARTICLE	IF	CITATIONS
1596	Cobalt Hexacyanoferrate Nanoparticles as a High-Rate and Ultra-Stable Supercapacitor Electrode Material. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11007-11012.	4.0	171
1597	Free-standing nitrogen-doped carbon nanotubes at electrospun carbon nanofibers composite as an efficient electrocatalyst for oxygen reduction. <i>Electrochimica Acta</i> , 2014, 138, 318-324.	2.6	61
1598	Electrochemical fabrication of a porous network MnO ₂ /poly(5-cyanoindole) composite and its capacitance performance. <i>Electrochimica Acta</i> , 2014, 138, 270-277.	2.6	42
1599	Coconut kernel-derived activated carbon as electrode material for electrical double-layer capacitors. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 903-916.	1.5	46
1600	Layer-by-layer (LBL) assembly of graphene with p-phenylenediamine (PPD) spacer for high performance supercapacitor applications. <i>RSC Advances</i> , 2014, 4, 19908.	1.7	60
1601	Effect of surface area and heteroatom of porous carbon materials on electrochemical capacitance in aqueous and organic electrolytes. <i>Science China Chemistry</i> , 2014, 57, 1570-1578.	4.2	33
1602	Optimal electrochemical performances of CO ₂ activated carbon aerogels for supercapacitors. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 213-218.	0.4	8
1603	Low cost and flexible mesh-based supercapacitors for promising large-area flexible/wearable energy storage. <i>Nano Energy</i> , 2014, 6, 82-91.	8.2	44
1604	Improving the specific capacitance of carbon nanotubes-based supercapacitors by combining introducing functional groups on carbon nanotubes with using redox-active electrolyte. <i>Electrochimica Acta</i> , 2014, 115, 183-188.	2.6	83
1605	A facile method to prepare a high performance solid-state flexible paper-based supercapacitor. <i>Applied Surface Science</i> , 2014, 313, 704-710.	3.1	18
1606	Facile one-step room-temperature synthesis of Mn-based spinel nanoparticles for electro-catalytic oxygen reduction. <i>RSC Advances</i> , 2014, 4, 4727-4731.	1.7	27
1607	Quantifying the apparent α -Catalytic TM effect of porous electrode surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2014, 724, 43-47.	1.9	36
1608	Methanol oxidation and photo-oxidation at Pt/WO ₃ electrocatalysts on graphite substrates. <i>Journal of Electroanalytical Chemistry</i> , 2014, 727, 135-140.	1.9	27
1609	Effects of Pore Structure on Performance of An Activated-Carbon Supercapacitor Electrode Recycled from Scrap Waste Tires. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1592-1598.	3.2	285
1610	Facile and green synthesis of a surfactant-free Au clusters/reduced graphene oxide composite as an efficient electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13682.	5.2	34
1611	A novel iron (â...j) polyphthalocyanine catalyst assembled on graphene with significantly enhanced performance for oxygen reduction reaction in alkaline medium. <i>Journal of Power Sources</i> , 2014, 268, 269-278.	4.0	47
1612	Hydrothermal synthesis of NiCo ₂ O ₄ nanowires/nitrogen-doped graphene for high-performance supercapacitor. <i>Applied Surface Science</i> , 2014, 314, 1000-1006.	3.1	55
1613	The effect of acid treatment on thermally exfoliated graphite oxide as electrode for supercapacitors. <i>Electrochimica Acta</i> , 2014, 138, 311-317.	2.6	9

#	ARTICLE	IF	CITATIONS
1614	Mesoporous 3D ZnO@NiO architectures for high-performance supercapacitor electrode materials. <i>CrystEngComm</i> , 2014, 16, 4169-4175.	1.3	53
1615	Amino Acid Anions in Organic Ionic Compounds. An ab Initio Study of Selected Ion Pairs. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2471-2486.	1.2	48
1616	Anthraquinone on Porous Carbon Nanotubes with Improved Supercapacitor Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8262-8270.	1.5	146
1617	Facile preparation of three-dimensional multilayer porous MnO ₂ /reduced graphene oxide composite and its supercapacitive performance. <i>Journal of Power Sources</i> , 2014, 271, 582-588.	4.0	57
1618	Crystalline Li ₃ V ₆ O ₁₆ rods as high-capacity anode materials for aqueous rechargeable lithium batteries (ARLB). <i>RSC Advances</i> , 2014, 4, 28601-28605.	1.7	12
1619	Carbon black/sulfur-doped graphene composite prepared by pyrolysis of graphene oxide with sodium polysulfide for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2014, 142, 51-60.	2.6	33
1620	Ab initio studies on the proton dissociation and infrared spectra of sulfonated poly(ether ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 50	1.3	20
1621	Graphene, inorganic graphene analogs and their composites for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12104.	5.2	251
1622	Direct synthesis of a mesoporous TiO ₂ @RuO ₂ composite through evaporation-induced polymeric micelle assembly. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10425-10428.	1.3	15
1623	Polymer Template Assisted Synthesis of Porous Li _{1.2} Mn _{0.53} Ni _{0.13} Co _{0.13} O ₂ as a High Capacity and High Rate Capability Positive Electrode Material. <i>Journal of the Electrochemical Society</i> , 2014, 161, A33-A39.	1.3	29
1624	Aldehyde@poly(ethylene glycol) modified graphene oxide/conducting polymers composite as high-performance electrochemical supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18058-18069.	5.2	41
1625	Fabrication of carbon nanotubes/polypyrrole/carbon nanotubes/melamine foam for supercapacitor. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	8
1627	Synthesis of Petal-Like Carbon Nanocapsule@MnO ₂ Core-Shell Particles and Their Application in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2014, 161, H598-H605.	1.3	12
1628	Ultrathin and Lightweight 3D Free-Standing Ni@NiO Nanowire Membrane Electrode for a Supercapacitor with Excellent Capacitance Retention at High Rates. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13627-13634.	4.0	71
1629	High-Density, Stretchable, All-Solid-State Microsupercapacitor Arrays. <i>ACS Nano</i> , 2014, 8, 8844-8855.	7.3	96
1630	Enhancing the catalytic activity of flowerlike Pt nanocrystals using polydopamine functionalized graphene supports for methanol electrooxidation. <i>Electrochimica Acta</i> , 2014, 142, 18-24.	2.6	70
1631	Porous Tin Oxide Nanosheets with Enhanced Conversion Efficiency as Dye-Sensitized Solar Cell Electrode. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16856-16862.	1.5	17
1632	Recent advances in porous graphene materials for supercapacitor applications. <i>RSC Advances</i> , 2014, 4, 45862-45884.	1.7	213

#	ARTICLE	IF	CITATIONS
1633	Achieving High Rate Performance in Layered Hydroxide Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301240.	10.2	166
1634	Facile Synthesis of Highly Electrocapacitive Nitrogen-Doped Graphitic Porous Carbons. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9357-9367.	1.5	78
1635	The role of Cu ions of the self-reassembled MnO ₂ nanosheets for rechargeable aqueous batteries. <i>Journal of the European Ceramic Society</i> , 2014, 34, 4297-4304.	2.8	5
1636	Electrochemical behavior of zinc oxide-based porous carbon composite nanofibers as an electrode for electrochemical capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2014, 730, 1-9.	1.9	18
1637	One-pot synthesis of nitrogen and sulfur co-doped onion-like mesoporous carbon vesicle as an efficient metal-free catalyst for oxygen reduction reaction in alkaline solution. <i>Journal of Power Sources</i> , 2014, 272, 267-276.	4.0	67
1638	Conducting CoMn ₂ O ₄ - PEDOT nanocomposites as catalyst in oxygen reduction reaction. <i>Electrochimica Acta</i> , 2014, 118, 81-87.	2.6	50
1639	Porous Nickel Hydroxide-Manganese Dioxide-Reduced Graphene Oxide Ternary Hybrid Spheres as Excellent Supercapacitor Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8621-8630.	4.0	240
1640	Effect of Pyrite in Precursor on Capacitance Behavior of Prepared Activated Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10125-10132.	1.8	8
1641	Chemical Synthesis of Nanostructured SrWO ₄ for Electrochemical Energy Storage and Conversion Applications. <i>International Journal of Nanoscience</i> , 2014, 13, 1450013.	0.4	5
1642	Graphenal Polymers for Energy Storage. <i>Small</i> , 2014, 10, 2122-2135.	5.2	35
1643	1-D Structured Flexible Supercapacitor Electrodes with Prominent Electronic/Ionic Transport Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 268-274.	4.0	34
1644	Enhanced electrochemical performance of poly(N-acetylaniline)/graphene composites as electrode materials for supercapacitors. <i>Materials Letters</i> , 2014, 124, 215-218.	1.3	3
1645	Tungsten carbide/porous carbon composite as superior support for platinum catalyst toward methanol electro-oxidation. <i>Materials Research Bulletin</i> , 2014, 49, 480-486.	2.7	10
1646	Performance of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /graphite batteries based on aqueous binder. <i>Journal of Power Sources</i> , 2014, 248, 915-922.	4.0	104
1647	Structure and electrochemical properties of electrospun carbon fiber composites containing graphene. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3474-3479.	2.9	46
1648	A facile synthesis of hierarchical γ -MnO ₂ nanofibers on 3D-graphene foam for supercapacitor application. <i>Materials Letters</i> , 2014, 119, 135-139.	1.3	68
1649	Boron-doped γ -Ni(OH) ₂ nanoflowers with high specific surface area as electrochemical capacitor materials. <i>Materials Letters</i> , 2014, 128, 380-383.	1.3	9
1650	No cytotoxic nitrogen-doped carbon nanotubes as efficient metal-free electrocatalyst for oxygen reduction in fuel cells. <i>Solid State Sciences</i> , 2014, 30, 21-25.	1.5	9

#	ARTICLE	IF	CITATIONS
1651	Growth of polycrystalline nickel hydroxide films from aqueous solution. Solution chemistry, deposition methods, film morphology and texture. <i>Thin Solid Films</i> , 2014, 552, 1-9.	0.8	4
1652	Transition metal oxides for high performance sodium ion battery anodes. <i>Nano Energy</i> , 2014, 5, 60-66.	8.2	361
1653	Ultrafine Au nanoparticles decorated NiCo ₂ O ₄ nanotubes as anode material for high-performance supercapacitor and lithium-ion battery applications. <i>Nano Energy</i> , 2014, 7, 114-123.	8.2	192
1654	Wettability adjustment of PVDF surfaces by combining radiation-induced grafting of (2,3,4,5,6)-pentafluorostyrene and subsequent chemoselective click-type reaction. <i>Polymer</i> , 2014, 55, 2628-2634.	1.8	26
1655	Iron tetrasulfophthalocyanine functionalized graphene nanosheets for oxygen reduction reaction in alkaline media. <i>Electrochimica Acta</i> , 2014, 130, 543-550.	2.6	19
1656	One-Step Synthesis of Ni/Ni(OH) ₂ @Multiwalled Carbon Nanotube Coaxial Nanocable Film For High Performance Supercapacitors. <i>Electrochimica Acta</i> , 2014, 125, 427-434.	2.6	27
1657	Preparation and Characterization of MnO ₂ /acid-treated CNT Nanocomposites for Energy Storage with Zinc Ions. <i>Electrochimica Acta</i> , 2014, 133, 254-261.	2.6	246
1658	Carbon@MnO ₂ core-shell nanospheres for flexible high-performance supercapacitor electrode materials. <i>Journal of Power Sources</i> , 2014, 259, 219-226.	4.0	182
1659	Structural and electrochemical properties of aluminium doped LiMn ₂ O ₄ cathode materials for Li battery: Experimental and ab initio calculations. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 5, 44-49.	1.7	38
1660	Rapid synthesis of nitrogen-doped graphene by microwave heating for oxygen reduction reactions in alkaline electrolyte. <i>Chinese Journal of Catalysis</i> , 2014, 35, 509-513.	6.9	16
1661	One-dimensional heterostructures of beta-nickel hydroxide nanoplates/electrospun carbon nanofibers: Controlled fabrication and high capacitive property. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16162-16170.	3.8	14
1662	Nitrogen- and oxygen-containing hierarchical porous carbon frameworks for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 134, 471-477.	2.6	48
1663	Nanoflake nickel hydroxide and reduced graphene oxide composite as anode materials for high capacity lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 132, 364-369.	2.6	46
1664	Synthesis and characterization of polyaniline and polyaniline @ Carbon nanotubes nanostructures for electrochemical supercapacitors. <i>Journal of Power Sources</i> , 2014, 245, 475-481.	4.0	90
1665	Symmetric Aqueous Rechargeable Lithium Battery Using Na _{1.16} V ₃ O ₈ Nanobelts Electrodes for Safe High Volume Energy Storage Applications. <i>Journal of the Electrochemical Society</i> , 2014, 161, A256-A263.	1.3	22
1666	Synthesis of 3D-Nanonet Hollow Structured Co ₃ O ₄ for High Capacity Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6739-6747.	4.0	355
1667	Anchoring CuO nanoparticles on nitrogen-doped reduced graphene oxide nanosheets as electrode material for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2014, 727, 154-162.	1.9	80
1668	Solution-based synthesis of anisotropic metal chalcogenide nanocrystals and their applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6222-6248.	2.7	66

#	ARTICLE	IF	CITATIONS
1669	Porous carbon spheres and monoliths: morphology control, pore size tuning and their applications as Li-ion battery anode materials. <i>Chemical Society Reviews</i> , 2014, 43, 4341-4356.	18.7	556
1670	A renewable biopolymer cathode with multivalent metal ions for enhanced charge storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1974-1979.	5.2	42
1671	Effect of the formulation of the electrode on the pore texture and electrochemical performance of the manganese dioxide-based electrode for application in a hybrid electrochemical capacitor. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6463.	5.2	38
1672	Green synthesis of metal/C and metal oxide/C films by using natural membrane as support. <i>Frontiers of Materials Science</i> , 2014, 8, 150-156.	1.1	2
1673	A Hybrid Supercapacitor based on Porous Carbon and the Metal-Organic Framework MIL-100(Fe). <i>ChemElectroChem</i> , 2014, 1, 1182-1188.	1.7	141
1674	Ionic liquid based EDLCs: influence of carbon porosity on electrochemical performance. <i>Faraday Discussions</i> , 2014, 172, 163-177.	1.6	15
1675	Effects of the mesostructural order on the electrochemical performance of hierarchical micro-mesoporous carbons. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12023-12030.	5.2	22
1676	Cellulose/acrylate membranes for flexible lithium batteries electrolytes: Balancing improved interfacial integrity and ionic conductivity. <i>European Polymer Journal</i> , 2014, 57, 22-29.	2.6	19
1677	Energetic carbon-based hybrids: green and facile synthesis from soy milk and extraordinary electrocatalytic activity towards ORR. <i>Nanoscale</i> , 2014, 6, 2964.	2.8	53
1678	Functionalized Graphene-Based Cathode for Highly Reversible Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2014, 7, 1265-1273.	3.6	51
1679	Strongly Coupled NiCo ₂ O ₄ -rGO Hybrid Nanosheets as a Methanol-Tolerant Electrocatalyst for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2014, 26, 2408-2412.	11.1	283
1680	Anion Exchange Fuel Cell Membranes Prepared from C-H Borylation and Suzuki Coupling Reactions. <i>Macromolecules</i> , 2014, 47, 1973-1980.	2.2	86
1681	Silver Nanoparticles Decorated Polyaniline/Multiwalled Carbon Nanotubes Nanocomposite for High-Performance Supercapacitor Electrode. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 3495-3508.	1.8	155
1682	Flexible supercapacitors based on carbon nanomaterials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10756.	5.2	402
1683	Functional Gels Based on Chemically Modified Graphenes. <i>Advanced Materials</i> , 2014, 26, 3992-4012.	11.1	276
1684	MnO ₂ /carbon nanowall electrode for future energy storage application: effect of carbon nanowall growth period and MnO ₂ mass loading. <i>RSC Advances</i> , 2014, 4, 20479-20488.	1.7	48
1685	Highly durable electrocatalyst with graphitized carbon supports modified by diazonium reaction for polymer electrolyte membrane fuel cell. <i>Carbon</i> , 2014, 77, 525-537.	5.4	16
1686	Synthesis of PtCu nanowires in nonaqueous solvent with enhanced activity and stability for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2014, 267, 380-387.	4.0	56

#	ARTICLE	IF	CITATIONS
1687	Nano Ni particle embedded Ni ₃ S ₂ cathode prepared by melt spinning and ball milling processes. Journal of Alloys and Compounds, 2014, 614, 1-6.	2.8	5
1688	Recent advances in zinc-air batteries. Chemical Society Reviews, 2014, 43, 5257-5275.	18.7	1,882
1689	In situ growth of Co ₃ O ₄ nanoparticles on MnO ₂ nanotubes: a new hybrid for high-performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 8465-8471.	5.2	44
1690	One-step synthesis of high-quality N-doped graphene/Fe ₃ O ₄ hybrid nanocomposite and its improved supercapacitor performances. RSC Advances, 2014, 4, 25658-25665.	1.7	53
1691	Hybrid material design for energy applications: impact of graphene and carbon nanotubes. Pure and Applied Chemistry, 2014, 86, 39-52.	0.9	4
1692	Electrocatalytic activity of various types of h-BN for the oxygen reduction reaction. Physical Chemistry Chemical Physics, 2014, 16, 13755-13761.	1.3	55
1693	Boron Nitride Nanosheet on Gold as an Electrocatalyst for Oxygen Reduction Reaction: Theoretical Suggestion and Experimental Proof. Journal of the American Chemical Society, 2014, 136, 6542-6545.	6.6	231
1694	Three-dimensional cross-linked carbon network wrapped with ordered polyaniline nanowires for high-performance pseudo-supercapacitors. Journal of Power Sources, 2014, 268, 451-458.	4.0	56
1695	Electrochemical investigation of copper/nickel oxide composites for supercapacitor applications. International Journal of Hydrogen Energy, 2014, 39, 16562-16568.	3.8	36
1696	Lithium Storage Property of MoS ₂ with Mechanical Alloying Treatment. Materials Science Forum, 2014, 787, 1-5.	0.3	0
1697	A general approach toward enhancement of pseudocapacitive performance of conducting polymers by redox-active electrolytes. Journal of Power Sources, 2014, 267, 521-526.	4.0	46
1698	Asymmetric supercapacitor based on graphene oxide/polypyrrole composite and activated carbon electrodes. Electrochimica Acta, 2014, 137, 26-33.	2.6	193
1699	Recent progress in nickel based materials for high performance pseudocapacitor electrodes. Journal of Power Sources, 2014, 267, 430-444.	4.0	180
1700	High specific surface area Mn-Fe ₂ O ₃ nanostructures as high performance electrode material for supercapacitors. Materials Letters, 2014, 131, 100-103.	1.3	83
1701	Sustainability index approach as a selection criteria for energy storage system of an intermittent renewable energy source. Applied Energy, 2014, 136, 909-920.	5.1	69
1702	Investigating metal-organic framework as a new pseudo-capacitive material for supercapacitors. Chinese Chemical Letters, 2014, 25, 957-961.	4.8	188
1703	Electrochemically active MnO ₂ /RGO nanocomposites using Mn powder as the reducing agent of GO and the MnO ₂ precursor. Electrochimica Acta, 2014, 130, 305-313.	2.6	57
1704	The value of mixed conduction for oxygen electroreduction on graphene-chitosan composites. Carbon, 2014, 73, 234-243.	5.4	14

#	ARTICLE	IF	CITATIONS
1705	Electrolytes for lithium and lithium ion batteries: From synthesis of novel lithium borates and ionic liquids to development of novel measurement methods. <i>Progress in Solid State Chemistry</i> , 2014, 42, 39-39.	3.9	59
1706	Effect of Triton X-100 on the double layer capacitance and conductivity of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS) films. <i>Synthetic Metals</i> , 2014, 191, 59-65.	2.1	33
1707	Corrosion Prevention of Chromium Nitride Coating with an Application to Bipolar Plate Materials. <i>Electrochemistry</i> , 2014, 82, 658-662.	0.6	8
1709	Raman and Infrared Spectroscopic Characterization of Graphene. , 2014, , 165-194.		0
1711	Amorphous-nanocrystalline lead titanate thin films for dielectric energy storage. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 250-255.	0.5	16
1713	Nanostructured Metal Oxides for Supercapacitor Applications. , 2014, , 119-152.		2
1714	How Nanotechnologies Can Enhance Sustainability in the Agrifood Sector. , 2014, , 74-93.		2
1715	Plug-In Hybrid Electric Vehicles. <i>Energy, Power Electronics, and Machines Series</i> , 2014, , 465-490.	1.0	1
1717	Preparation of anion exchange membrane based on homogeneous quaternization of bromomethylated poly(arylene ether sulfone). <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	9
1718	An In Situ Source-Template Interface Reaction Route to 3D Nitrogen-Doped Hierarchical Porous Carbon as Oxygen Reduction Electrocatalyst. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500199.	1.9	39
1719	Nickel foam-graphene/MnO ₂ /PANI nanocomposite based electrode material for efficient supercapacitors. <i>Journal of Materials Research</i> , 2015, 30, 3192-3200.	1.2	28
1720	Overview of Small Scale Electric Energy Storage Systems suitable for dedicated coupling with Renewable Micro Sources. , 2015, , .		2
1721	Vanadium Pentoxide Nanorods Anchored to and Wrapped with Graphene Nanosheets for High-Power Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 1264-1269.	1.7	31
1723	Sharp-interface model of electrodeposition and ramified growth. <i>Physical Review E</i> , 2015, 92, 042302.	0.8	15
1724	Li-ion batteries: basics, progress, and challenges. <i>Energy Science and Engineering</i> , 2015, 3, 385-418.	1.9	736
1725	High-Performance Flexible All-Solid-State Supercapacitor from Large Free-Standing Graphene-PEDOT/PSS Films. <i>Scientific Reports</i> , 2015, 5, 17045.	1.6	243
1726	Secondary batteries with multivalent ions for energy storage. <i>Scientific Reports</i> , 2015, 5, 14120.	1.6	125
1727	Reassembly of Exfoliated \pm -ZrP Nanosheets and Cobalt Porphyrin Used as an Oxygen Sensor. <i>Chemistry Letters</i> , 2015, 44, 1345-1346.	0.7	2

#	ARTICLE	IF	CITATIONS
1728	High Performance Heteroatoms Quaternary-doped Carbon Catalysts Derived from Shewanella Bacteria for Oxygen Reduction. Scientific Reports, 2015, 5, 17064.	1.6	62
1729	Bismuth pyrochlore thin films for dielectric energy storage. Journal of Applied Physics, 2015, 118, .	1.1	42
1730	Gas Evolution in Operating Lithium-Ion Batteries Studied In Situ by Neutron Imaging. Scientific Reports, 2015, 5, 15627.	1.6	104
1731	Hierarchical Co-based Porous Layered Double Hydroxide Arrays Derived via Alkali Etching for High-performance Supercapacitors. Scientific Reports, 2015, 5, 13082.	1.6	48
1732	Multiscale modeling and characterization for performance and safety of lithium-ion batteries. Journal of Applied Physics, 2015, 118, .	1.1	41
1733	Microcutting of Multi-layer Foils with IR and Green ns-pulsed Fibre Lasers for Li-Ion Batteries. Procedia CIRP, 2015, 33, 526-531.	1.0	2
1734	Multi-wall carbon nanostructured paper: characterization and potential applications definition. Materials Research Express, 2015, 2, 095601.	0.8	9
1735	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. ChemSusChem, 2015, 8, 2284-2311.	3.6	259
1736	Well-Combined Magnetically Separable Hybrid Cobalt Ferrite/Nitrogen-Doped Graphene as Efficient Catalyst with Superior Performance for Oxygen Reduction Reaction. Small, 2015, 11, 5833-5843.	5.2	73
1737	A High-Power Symmetric Na-Ion Pseudocapacitor. Advanced Functional Materials, 2015, 25, 5778-5785.	7.8	105
1738	Design Considerations for Unconventional Electrochemical Energy Storage Architectures. Advanced Energy Materials, 2015, 5, 1402115.	10.2	271
1739	Programmable Nanocarbon-Based Architectures for Flexible Supercapacitors. Advanced Energy Materials, 2015, 5, 1500677.	10.2	87
1740	The unique morphology role of thorn surface in determining electrochemical performance of polyaniline nano-fibers via one-step method. Journal of Applied Polymer Science, 2015, 132, .	1.3	0
1741	Synergistic Effect of Nitrogen in Cobalt Nitride and Nitrogen-Doped Hollow Carbon Spheres for the Oxygen Reduction Reaction. ChemCatChem, 2015, 7, 1826-1832.	1.8	62
1742	In Situ Formation of Conductive Metal Sulfide Domain in Metal Oxide Matrix: An Efficient Way to Improve the Electrochemical Activity of Semiconducting Metal Oxide. Advanced Functional Materials, 2015, 25, 4948-4955.	7.8	18
1743	Structural Origin of the Activity in Mn ₃ O ₄ -Graphene Oxide Hybrid Electrocatalysts for the Oxygen Reduction Reaction. ChemSusChem, 2015, 8, 3331-3339.	3.6	56
1744	Adsorption and Desorption Behavior of Nafion on Au and Pt Surfaces. Hyomen Kagaku, 2015, 36, 465-473.	0.0	0
1745	In-Situ Growth of NiSe Nanowire Film on Nickel Foam as an Electrode for High-Performance Supercapacitors. ChemElectroChem, 2015, 2, 1903-1907.	1.7	157

#	ARTICLE	IF	CITATIONS
1746	Flexible High-Energy Polymer-Electrolyte-Based Rechargeable Zinc-Air Batteries. <i>Advanced Materials</i> , 2015, 27, 5617-5622.	11.1	258
1747	Arbitrary Shape Engineerable Spiral Micropseudocapacitors with Ultrahigh Energy and Power Densities. <i>Advanced Materials</i> , 2015, 27, 7476-7482.	11.1	70
1750	General Strategy to Fabricate Ternary Metal Nitride/Carbon Nanofibers for Supercapacitors. <i>ChemElectroChem</i> , 2015, 2, 2020-2026.	1.7	19
1751	Synthesis, Spectroscopic Characterization, Crystal Structures, Energetics, and Thermal Stabilities of Li[AlX ₄] (X = Cl, Br): Investigation and Performance of Their Electrolyte Solutions. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3128-3138.	1.0	5
1752	A review on the use of carbon nanostructured materials in electrochemical capacitors. <i>International Journal of Energy Research</i> , 2015, 39, 1955-1980.	2.2	64
1753	High-Surface-Area Nitrogen-Doped Reduced Graphene Oxide for Electric Double-Layer Capacitors. <i>ChemSusChem</i> , 2015, 8, 1875-1884.	3.6	83
1754	Energy storage in symmetric and asymmetric supercapacitors based in carbon cloth/polyaniline-carbon black nanocomposites. <i>International Journal of Energy Research</i> , 2015, 39, 2053-2061.	2.2	19
1755	Matrix Material Study for <i>in situ</i> Grown Pt Nanowire Electrocatalyst Layer in Proton Exchange Membrane Fuel Cells (PEMFCs). <i>Fuel Cells</i> , 2015, 15, 449-455.	1.5	13
1756	Phenomenological characterization of fabrication of aligned pristine-SWNT and COOH-SWNT nanocomposites via dielectrophoresis under AC electric field. <i>Polymer Composites</i> , 2015, 36, 1266-1279.	2.3	19
1757	2D Monolayer MoS ₂ -Carbon Interoverlapped Superstructure: Engineering Ideal Atomic Interface for Lithium Ion Storage. <i>Advanced Materials</i> , 2015, 27, 3687-3695.	11.1	504
1758	Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. <i>Advanced Energy Materials</i> , 2015, 5, 1500959.	10.2	208
1760	Beta-Sheet-Forming, Self-Assembled Peptide Nanomaterials towards Optical, Energy, and Healthcare Applications. <i>Small</i> , 2015, 11, 3623-3640.	5.2	161
1761	Effects of Metallic Glass Precursors on the Catalytic Performance of Nanoporous Metals. <i>Materials Research</i> , 2015, 18, 110-114.	0.6	0
1762	Battery Design for Successful Electrification in Public Transport. <i>Energies</i> , 2015, 8, 6715-6737.	1.6	37
1763	Phosphorus and Nitrogen Dual Doped and Simultaneously Reduced Graphene Oxide with High Surface Area as Efficient Metal-Free Electrocatalyst for Oxygen Reduction. <i>Catalysts</i> , 2015, 5, 981-991.	1.6	122
1764	Dealloying of Cu-Based Metallic Glasses in Acidic Solutions: Products and Energy Storage Applications. <i>Nanomaterials</i> , 2015, 5, 697-721.	1.9	28
1765	Simulation of the Impact of Si Shell Thickness on the Performance of Si-Coated Vertically Aligned Carbon Nanofiber as Li-Ion Battery Anode. <i>Nanomaterials</i> , 2015, 5, 2268-2278.	1.9	4
1766	High-Performance Supercapacitors Based on Ionic Liquids and a Graphene Nanostructure. , 0, , .		8

#	ARTICLE	IF	CITATIONS
1767	Mesoporous Transition Metal Oxides for Supercapacitors. <i>Nanomaterials</i> , 2015, 5, 1667-1689.	1.9	310
1768	Cauliflower-Like Co ₃ O ₄ /Three-Dimensional Graphene Composite for High Performance Supercapacitor Applications. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-9.	1.5	12
1770	Graphene quantum dot-doped polyaniline nanofiber as high performance supercapacitor electrode materials. <i>Chemical Communications</i> , 2015, 51, 12365-12368.	2.2	233
1771	A review of cathode materials and structures for rechargeable lithium-air batteries. <i>Energy and Environmental Science</i> , 2015, 8, 2144-2198.	15.6	415
1772	Resilient High Catalytic Performance of Platinum Nanocatalysts with Porous Graphene Envelope. <i>ACS Nano</i> , 2015, 9, 5947-5957.	7.3	55
1773	Asymmetric supercapacitors based on the in situ-grown mesoporous nickel oxide and activated carbon. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2391-2398.	1.2	12
1774	Engineering of MnO ₂ -based nanocomposites for high-performance supercapacitors. <i>Progress in Materials Science</i> , 2015, 74, 51-124.	16.0	449
1775	Carbon- and Nitrogen-Based Organic Frameworks. <i>Accounts of Chemical Research</i> , 2015, 48, 1591-1600.	7.6	215
1776	Synthesis and characterization of sulfonated polyphenylene containing benzophenone moiety via nickel catalyzed polymerization. <i>Electrochimica Acta</i> , 2015, 177, 161-167.	2.6	13
1777	Electrochemical Hierarchical Composites. , 2015, , 239-286.		1
1778	Polymer brush functionalized SiO ₂ nanoparticle based Nafion nanocomposites: a novel avenue to low-humidity proton conducting membranes. <i>Polymer Chemistry</i> , 2015, 6, 5782-5789.	1.9	40
1779	Nitrogen-doped, FeNi alloy nanoparticle-decorated graphene as an efficient and stable electrode for electrochemical supercapacitors in acid medium. <i>Nanoscale Research Letters</i> , 2015, 10, 104.	3.1	18
1780	High charge-capacity polymer electrodes comprising alkali lignin from the Kraft process. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11330-11339.	5.2	47
1781	Dynamically stretchable supercapacitors based on graphene woven fabric electrodes. <i>Nano Energy</i> , 2015, 15, 83-91.	8.2	84
1782	One-pot synthesis of FeF ₃ /graphene composite for sodium secondary batteries. <i>Materials Letters</i> , 2015, 158, 21-24.	1.3	17
1783	Highly porous carbon microflakes derived from catkins for high-performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 44416-44422.	1.7	59
1784	Simplistic construction of cadmium sulfoselenide thin films via a hybrid chemical process for enhanced photoelectrochemical performance. <i>RSC Advances</i> , 2015, 5, 40283-40296.	1.7	26
1785	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15792-15823.	5.2	135

#	ARTICLE	IF	CITATIONS
1786	Three-dimensional graphene oxide/polypyrrole composite electrodes fabricated by one-step electrodeposition for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14445-14457.	5.2	212
1787	Porous Nano-Si/Carbon Derived from Zeolitic Imidazolate Frameworks@Nano-Si as Anode Materials for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2015, 173, 588-594.	2.6	59
1788	Freestanding one-dimensional manganese dioxide nanoflakes-titanium carbide/carbon core/double shell arrays as ultra-high performance supercapacitor electrode. <i>Journal of Power Sources</i> , 2015, 293, 519-526.	4.0	10
1789	Materials and fabrication of electrode scaffolds for deposition of MnO ₂ and their true performance in supercapacitors. <i>Journal of Power Sources</i> , 2015, 293, 657-674.	4.0	93
1792	State of Charge Imbalance Estimation for Battery Strings Under Reduced Voltage Sensing. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1052-1062.	3.2	46
1793	Nitrogen-enriched activated carbons from waste particleboard used as electrode materials for supercapacitors: effects of activating agent on surface characteristics. <i>RSC Advances</i> , 2015, 5, 50843-50850.	1.7	12
1794	Different approaches to PVP/graphene composite film fabrication using electrohydrodynamic atomization technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2039-2044.	1.1	5
1795	NiCo ₂ S ₄ /Ni(OH) ₂ core-shell heterostructured nanotube arrays on carbon-fabric as high-performance pseudocapacitor electrodes. <i>Applied Surface Science</i> , 2015, 349, 870-875.	3.1	47
1796	Boosting the activity of a Au/CeO ₂ /Al ₂ O ₃ catalyst for the WGS reaction. <i>Catalysis Today</i> , 2015, 253, 149-154.	2.2	47
1797	Reduced graphene oxide and polypyrrole/reduced graphene oxide composite coated stretchable fabric electrodes for supercapacitor application. <i>Electrochimica Acta</i> , 2015, 172, 12-19.	2.6	103
1798	Three-dimensional graphene-polyaniline hybrid hollow spheres by layer-by-layer assembly for application in supercapacitor. <i>Electrochimica Acta</i> , 2015, 173, 184-192.	2.6	110
1799	In situ synchrotron wide-angle X-ray scattering study on rapid lithiation of graphite anode via direct contact method for Li-ion capacitors. <i>Journal of Power Sources</i> , 2015, 283, 68-73.	4.0	41
1800	Composites of MnO ₂ nanocrystals and partially graphitized hierarchically porous carbon spheres with improved rate capability for high-performance supercapacitors. <i>Carbon</i> , 2015, 93, 258-265.	5.4	56
1801	Octahedral Co ₃ O ₄ /carbon nanofiber composite-supported Pt catalysts for improved methanol electrooxidation. <i>Journal of Alloys and Compounds</i> , 2015, 645, 317-321.	2.8	32
1802	Recent development in the preparation of nanoparticles as fuel cell catalysts. <i>Current Opinion in Chemical Engineering</i> , 2015, 8, 89-97.	3.8	25
1803	Fe ₂ microspheres with an ether-based electrolyte for high-performance rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12898-12904.	5.2	111
1804	Graft octa-sulfonated poly(arylene ether) for high performance proton exchange membrane. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12698-12708.	5.2	29
1805	Template synthesis of 1D hierarchical hollow Co ₃ O ₄ nanotubes as high performance supercapacitor materials. <i>Journal of Alloys and Compounds</i> , 2015, 644, 721-728.	2.8	68

#	ARTICLE	IF	CITATIONS
1806	Synthesis of Three Dimensional Graphene/Multiwalled Carbon Nanotubes Nanocomposites Hydrogel and Investigation of their Electrochemical Properties as Electrodes of Supercapacitors. <i>Advanced Materials Research</i> , 0, 1094, 222-228.	0.3	2
1807	Nanoarrays: design, preparation and supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 55856-55869.	1.7	68
1808	Growth of 3D SnO ₂ nanosheets on carbon cloth as a binder-free electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15057-15067.	5.2	126
1809	Synthesis of nanocrystalline LiCoO ₂ powders by polymeric combustion process: an investigation on the effect of different carboxylic acids as fuel. <i>International Journal of Higher Education Management</i> , 2015, 1, 105-112.	1.0	5
1810	A new generation of pulsed power supplies for experimental physics based on supercapacitors. , 2015, , .		5
1811	Pseudocapacitance of Ni-CoMoO_4 nanoflakes in non-aqueous electrolyte and its bi-functional electro catalytic activity for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16297-16305.	3.8	37
1812	Standard Reduction Potentials for Oxygen and Carbon Dioxide Couples in Acetonitrile and <i>N,N</i> -Dimethylformamide. <i>Inorganic Chemistry</i> , 2015, 54, 11883-11888.	1.9	189
1813	High Performance All-Solid-State Flexible Micro-Pseudocapacitor Based on Hierarchically Nanostructured Tungsten Trioxide Composite. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27845-27852.	4.0	47
1814	Theoretical Prediction of Hydrogen Separation Performance of Two-Dimensional Carbon Network of Fused Pentagon. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28502-28507.	4.0	36
1815	3D (3-dimensional) porous silver nonwoven mats prepared with cellulosic templates and spray equipment for use as supercapacitor current collectors. <i>Energy</i> , 2015, 93, 1303-1307.	4.5	9
1816	Enhanced electrochemical performance of ordered mesoporous carbons by a one-step carbonization/activation treatment. <i>Journal of Electroanalytical Chemistry</i> , 2015, 758, 39-45.	1.9	16
1817	Self-supported yolk-shell nanocolloids towards high capacitance and excellent cycling performance. <i>Nano Energy</i> , 2015, 18, 273-282.	8.2	53
1818	Investigating the Mg-Si Binary System via Combinatorial Sputter Deposition As High Energy Density Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20124-20133.	4.0	40
1819	An evaporation-induced tri-consistent assembly route towards nitrogen-doped carbon microfibers with ordered mesopores for high performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4724-4729.	1.3	15
1820	Ultrafast high-volumetric sodium storage of folded-graphene electrodes through surface-induced redox reactions. <i>Energy Storage Materials</i> , 2015, 1, 112-118.	9.5	83
1821	Role of the vacuum pressure and temperature in the shape of metal Zn nanoparticles. <i>Bulletin of Materials Science</i> , 2015, 38, 1777-1781.	0.8	3
1822	Polyaniline Coated Boron Doped Biomass Derived Porous Carbon Composites for Supercapacitor Electrode Materials. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 12570-12579.	1.8	73
1823	An electrochemically deposited graphene@Mn ₃ O ₄ composite film for supercapacitors. <i>RSC Advances</i> , 2015, 5, 107977-107981.	1.7	5

#	ARTICLE	IF	CITATIONS
1824	Flexible multiwalled carbon nanotubes/conductive polymer composite electrode for supercapacitor applications. <i>Smart Materials and Structures</i> , 2015, 24, 115008.	1.8	23
1825	Oxygen-enriched hierarchical porous carbon derived from biowaste sunflower heads for high-performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 107785-107792.	1.7	31
1826	Carboxylated, Fe-filled Multiwalled Carbon Nanotubes as Versatile Catalysts for O_2 Reduction and H_2 Evolution Reactions at Physiological pH. <i>Chemistry - A European Journal</i> , 2015, 21, 12769-12777.	1.7	25
1827	Vanadyl phosphate/reduced graphene oxide nanosheet hybrid material and its capacitance. <i>Electrochimica Acta</i> , 2015, 178, 312-320.	2.6	33
1828	Electrochemical deposition of mesoporous $NiCo_2O_4$ nanosheets on Ni foam as high-performance electrodes for supercapacitors. <i>Materials Research Innovations</i> , 2015, 19, S255-S259.	1.0	11
1829	Hydrogen evolution reactions on carbon materials potentially useful in double-layer supercapacitors. <i>Russian Journal of General Chemistry</i> , 2015, 85, 2699-2702.	0.3	1
1830	Influence of graphene microstructures on electrochemical performance for supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 379-385.	1.8	329
1831	Flexible Cellulose-Based Films of Polyaniline-Graphene-Silver Nanowire for High-Performance Supercapacitors. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2015, 6, .	0.8	12
1832	Core-satellite $BaTiO_3@SrTiO_3$ assemblies for a local compositionally graded relaxor ferroelectric capacitor with enhanced energy storage density and high energy efficiency. <i>Journal of Materials Chemistry C</i> , 2015, 3, 750-758.	2.7	138
1833	Synthesis of mesoporous $NiCo_2O_4$ fibers and their electrocatalytic activity on direct oxidation of ethanol in alkaline media. <i>Electrochimica Acta</i> , 2015, 154, 70-76.	2.6	75
1834	Managing Electric Vehicles in the Smart Grid Using Artificial Intelligence: A Survey. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 1619-1635.	4.7	193
1835	Influence of pore symmetries on the supercapacitive performance of mesoporous carbons co-templated by F127 and PDMS-PEO. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 81-85.	2.2	11
1836	Nitrogen-doped carbon nanotubes as catalysts for the oxygen reduction reaction in alkaline medium. <i>Journal of Power Sources</i> , 2015, 279, 28-35.	4.0	39
1837	High performance supercapacitor based on graphene-silver nanoparticles-polypyrrole nanocomposite coated on glassy carbon electrode. <i>Journal of Power Sources</i> , 2015, 276, 262-270.	4.0	170
1838	A Method for Modeling the Battery State of Charge in Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2015, 15, 1186-1197.	2.4	23
1839	Fabrication of manganese oxide/three-dimensional reduced graphene oxide composites as the supercapacitors by a reverse microemulsion method. <i>Carbon</i> , 2015, 85, 249-260.	5.4	74
1840	Sandwich-like $MnOx/Ni_{1-x}MnxOy@nanoporous\ nickel/MnOx$ architecture with high areal/volumetric capacitance. <i>Electrochimica Acta</i> , 2015, 155, 16-22.	2.6	13
1841	Synthesis of $Ni(OH)_2/RGO$ pseudocomposite on nickel foam for supercapacitors with superior performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3641-3650.	5.2	149

#	ARTICLE	IF	CITATIONS
1842	The dual role of hydrogen peroxide in fuel cells. <i>Science Bulletin</i> , 2015, 60, 55-64.	4.3	98
1843	Impact analysis of sampling time interval and battery installation on optimal operational planning of residential cogeneration systems without electric power export. <i>Energy</i> , 2015, 81, 120-136.	4.5	19
1844	Synthesis, characterization and charge/discharge studies of ferrocene-containing poly(fluorenylethynylene) derivatives as organic cathode materials. <i>Polymer</i> , 2015, 68, 328-334.	1.8	34
1845	The importance of the electrode mass ratio in a Li-ion capacitor based on activated carbon and Li ₄ Ti ₅ O ₁₂ . <i>Journal of Power Sources</i> , 2015, 282, 385-393.	4.0	151
1846	Size-dependent capacitance of NiO nanoparticles synthesized from Ni-based coordination polymer precursors with different crystallinity. <i>Journal of Alloys and Compounds</i> , 2015, 632, 361-367.	2.8	13
1847	A facile preparation and electrochemical properties of nickel based compound/graphene sheet composites for supercapacitors. <i>Chinese Chemical Letters</i> , 2015, 26, 522-528.	4.8	15
1848	Lewis Acid-Induced Change from Four- to Two-Electron Reduction of Dioxygen Catalyzed by Copper Complexes Using Scandium Triflate. <i>Journal of the American Chemical Society</i> , 2015, 137, 3330-3337.	6.6	52
1849	3D porous and ultralight carbon hybrid nanostructure fabricated from carbon foam covered by monolayer of nitrogen-doped carbon nanotubes for high performance supercapacitors. <i>Journal of Power Sources</i> , 2015, 280, 678-686.	4.0	121
1850	Commercial and research battery technologies for electrical energy storage applications. <i>Progress in Energy and Combustion Science</i> , 2015, 48, 84-101.	15.8	244
1851	Rational Design of High-Surface-Area Carbon Nanotube/Microporous Carbon Core/Shell Nanocomposites for Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4817-4825.	4.0	62
1852	Recycling Application of Li/MnO ₂ Batteries as Rechargeable Lithium/Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4338-4343.	7.2	109
1853	Molybdenum Nitrides as Oxygen Reduction Reaction Catalysts: Structural and Electrochemical Studies. <i>Inorganic Chemistry</i> , 2015, 54, 2128-2136.	1.9	97
1854	Honeysuckles-derived porous nitrogen, sulfur, dual-doped carbon as high-performance metal-free oxygen electroreduction catalyst. <i>Nano Energy</i> , 2015, 12, 785-793.	8.2	167
1855	Influence of nitric acid activation on structure and capacitive performances of ordered mesoporous carbon. <i>Electrochimica Acta</i> , 2015, 152, 456-463.	2.6	31
1856	Yeast Cells-Derived Hollow Core/Shell Heteroatom-Doped Carbon Microparticles for Sustainable Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1978-1986.	4.0	49
1857	Recent progress in synthesis, properties and potential applications of SiC nanomaterials. <i>Progress in Materials Science</i> , 2015, 72, 1-60.	16.0	415
1858	An evaporation-induced tri-constituent assembly approach to fabricate an ordered mesoporous carbon/graphene aerogel for high-performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 16765-16768.	1.7	15
1859	Graphene Polymer Nanocomposites for Fuel Cells. , 2015, , 91-130.		3

#	ARTICLE	IF	CITATIONS
1860	A Biodegradable Gel Electrolyte for Use in High-Performance Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3503-3511.	4.0	158
1861	Improved pseudocapacitive performance of well-defined WO ₃ ·x nanoplates. <i>Ceramics International</i> , 2015, 41, 4989-4995.	2.3	31
1862	Ultrathin porous hierarchically textured NiCo ₂ O ₄ –graphene oxide flexible nanosheets for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2015, 39, 2181-2187.	1.4	73
1863	Synthesis and electrochemical capacitive properties of nitrogen-doped porous carbon micropolyhedra by direct carbonization of zeolitic imidazolate framework-11. <i>Materials Research Bulletin</i> , 2015, 66, 88-95.	2.7	51
1864	Influence of the reaction temperature on the oxygen reduction reaction on nitrogen-doped carbon nanotube catalysts. <i>Catalysis Today</i> , 2015, 249, 236-243.	2.2	22
1865	In Situ Preparation of Sandwich MoO ₃ /C Hybrid Nanostructures for High-Rate and Ultralong-Life Supercapacitors. <i>Advanced Functional Materials</i> , 2015, 25, 1886-1894.	7.8	116
1866	All conducting polymer electrodes for asymmetric solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7368-7374.	5.2	112
1867	Nanostructured Mo-based electrode materials for electrochemical energy storage. <i>Chemical Society Reviews</i> , 2015, 44, 2376-2404.	18.7	599
1868	Electrospun NiO nanofibers as cathode materials for high performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7513-7522.	5.2	149
1869	High-Performance Oxygen Redox Catalysis with Multifunctional Cobalt Oxide Nanochains: Morphology-Dependent Activity. <i>ACS Catalysis</i> , 2015, 5, 2017-2027.	5.5	249
1870	Rapid and Efficient Redox Processes within 2D Covalent Organic Framework Thin Films. <i>ACS Nano</i> , 2015, 9, 3178-3183.	7.3	318
1871	Micro Li-ion capacitor with activated carbon/graphite configuration for energy storage. <i>Journal of Power Sources</i> , 2015, 282, 394-400.	4.0	37
1872	Electrochemical synthesis of sulfur-doped graphene sheets for highly efficient oxygen reduction. <i>Science China Chemistry</i> , 2015, 58, 417-424.	4.2	19
1873	Palladium–Cobalt Nanotube Arrays Supported on Carbon Fiber Cloth as High-Performance Flexible Electrocatalysts for Ethanol Oxidation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3669-3673.	7.2	258
1874	Advanced Physical Chemistry of Carbon Nanotubes. <i>Annual Review of Physical Chemistry</i> , 2015, 66, 331-356.	4.8	42
1875	Cu ₆ Sn ₅ –TiC–C nanocomposite anodes for high-performance sodium-ion batteries. <i>Journal of Power Sources</i> , 2015, 281, 11-17.	4.0	29
1876	Probing the aging effects on nanomechanical properties of a LiFePO ₄ cathode in a large format prismatic cell. <i>Journal of Power Sources</i> , 2015, 280, 256-262.	4.0	23
1877	Electrolytes in Dye-Sensitized Solar Cells. <i>Chemical Reviews</i> , 2015, 115, 2136-2173.	23.0	852

#	ARTICLE	IF	CITATIONS
1878	Oxygen-induced changes to selectivity-determining steps in electrocatalytic CO ₂ reduction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4505-4515.	1.3	43
1879	Misfit-layered Bi _{1.85} Sr ₂ Co _{1.85} O _{7.7} for the Hydrogen Evolution Reaction: Beyond van der Waals Heterostructures. <i>ChemPhysChem</i> , 2015, 16, 769-774.	1.0	10
1880	Insight into the Degradation of HT-PEMFCs Containing Tungsten Oxide Catalyst Support Material for the Anode. <i>Journal of the Electrochemical Society</i> , 2015, 162, F280-F290.	1.3	8
1881	Highly active nitrogen-doped nanocarbon electrocatalysts for alkaline direct methanol fuel cell. <i>Journal of Power Sources</i> , 2015, 281, 94-102.	4.0	58
1882	Cobalt oxide functionalized nanoporous carbon electrodes and their excellent supercapacitive performance. <i>RSC Advances</i> , 2015, 5, 13930-13940.	1.7	20
1883	Enhanced electrocatalytic performance for methanol oxidation with a Magnéli phase molybdenum oxide/Pt-black composite. <i>Journal of Molecular Catalysis A</i> , 2015, 400, 7-13.	4.8	12
1884	Supercapacitor performance of carbon nanofiber electrodes derived from immiscible PAN/PMMA polymer blends. <i>RSC Advances</i> , 2015, 5, 19865-19873.	1.7	122
1885	Enhanced electrocatalytic activity of platinum nanoparticles supported on nitrogen-modified mesoporous carbons for methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2971-2978.	3.8	34
1886	A Carbon-Air Battery for High Power Generation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3722-3725.	7.2	40
1887	Sulfur-doped porous carbon nanosheets as an advanced electrode material for supercapacitors. <i>RSC Advances</i> , 2015, 5, 13046-13051.	1.7	95
1889	Fabrication of three dimensional carbon nanotube foam by direct conversion carbon dioxide and its application in supercapacitor. <i>Electrochimica Acta</i> , 2015, 158, 35-41.	2.6	36
1890	One-step electroplating porous graphene oxide electrodes of supercapacitors for ultrahigh capacitance and energy density. <i>Nanotechnology</i> , 2015, 26, 055401.	1.3	8
1891	3D interpenetrating macroporous graphene aerogels with MnO ₂ coating for supercapacitors. <i>Russian Journal of Electrochemistry</i> , 2015, 51, 782-788.	0.3	6
1892	On the electrochemical origin of the enhanced charge acceptance of the lead-carbon electrode. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4399-4404.	5.2	61
1893	Ternary Hybrids of Amorphous Nickel Hydroxide-Carbon Nanotube-Conducting Polymer for Supercapacitors with High Energy Density, Excellent Rate Capability, and Long Cycle Life. <i>Advanced Functional Materials</i> , 2015, 25, 1063-1073.	7.8	288
1894	Fiber-Shaped Supercapacitor. <i>Nanostructure Science and Technology</i> , 2015, , 117-145.	0.1	2
1895	⁷ Li in situ 1D NMR imaging of a lithium ion battery. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4458-4465.	1.3	57
1896	Cylindrical nanostructured MoS ₂ directly grown on CNT composites for lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 3404-3409.	2.8	86

#	ARTICLE	IF	CITATIONS
1897	Preparation of graphene-based poly(vinyl alcohol)/chitosan nanocomposites membrane for alkaline solid electrolytes membrane. <i>Journal of Membrane Science</i> , 2015, 477, 49-57.	4.1	73
1898	Natural source derived carbon paper supported conducting polymer nanowire arrays for high performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 14441-14447.	1.7	32
1899	One-step synthesis of three-dimensional porous ionic liquid@carbon nanotube@graphene gel and MnO ₂ @graphene gel as freestanding electrodes for asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 10178-10186.	1.7	68
1900	Performance of Flexible and Binderless Polypyrrole/Graphene Oxide/Zinc Oxide Supercapacitor Electrode in a Symmetrical Two-Electrode Configuration. <i>Electrochimica Acta</i> , 2015, 157, 88-94.	2.6	201
1901	Electrochemical performance of rod-like Sb@C composite as anodes for Li-ion and Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3276-3280.	5.2	94
1902	Ultrasound assisted synthesis of Mn ₃ O ₄ nanoparticles anchored graphene nanosheets for supercapacitor applications. <i>Electrochimica Acta</i> , 2015, 156, 127-137.	2.6	78
1903	Properties of Pyrolyzed Carbon-Supported Cobalt-Polypyrrole as Electrocatalyst toward Oxygen Reduction Reaction in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2015, 162, F359-F365.	1.3	11
1904	Ultra-fast rate capability of a symmetric supercapacitor with a hierarchical Co ₃ O ₄ nanowire/nanoflower hybrid structure in non-aqueous electrolyte. <i>RSC Advances</i> , 2015, 5, 12700-12709.	1.7	59
1905	Carbon Nitride in Energy Conversion and Storage: Recent Advances and Future Prospects. <i>ChemSusChem</i> , 2015, 8, 931-946.	3.6	195
1906	Strongly coupled metal oxide nanorod arrays with graphene nanoribbons and nanosheets enable novel solid-state hybrid cells. <i>Journal of Power Sources</i> , 2015, 283, 95-103.	4.0	11
1907	Hierarchical NiMn ₂ O ₄ @CNT nanocomposites for high-performance asymmetric supercapacitors. <i>RSC Advances</i> , 2015, 5, 24607-24614.	1.7	73
1908	On-chip interdigitated supercapacitor based on nano-porous gold/manganese oxide nanowires hybrid electrode. <i>Electrochimica Acta</i> , 2015, 163, 107-115.	2.6	50
1909	Nitrogen-doped carbon shell structure derived from natural leaves as a potential catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2015, 13, 518-526.	8.2	132
1910	Surface-modified separators prepared with conductive polymer and aluminum fluoride for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 279, 737-744.	4.0	36
1911	Nanostructured pseudocapacitive materials decorated 3D graphene foam electrodes for next generation supercapacitors. <i>Nanoscale</i> , 2015, 7, 6999-7021.	2.8	124
1912	Hydrothermal Synthesis of Akaganeite Nanorods and Their Supercapacitance Property. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 982-985.	1.9	3
1913	3D Nanostructure of Carbon Nanotubes Decorated Co ₃ O ₄ Nanowire Arrays for High Performance Supercapacitor Electrode. <i>Electrochimica Acta</i> , 2015, 163, 9-15.	2.6	77
1914	Nitrogen-doped hierarchically porous carbon spheres as efficient metal-free electrocatalysts for an oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015, 283, 389-396.	4.0	79

#	ARTICLE	IF	CITATIONS
1915	Interwoven Three-Dimensional Architecture of Cobalt Oxide Nanobrush-Graphene@Ni ₂ Co ₂ (OH) ₆ for High-Performance Supercapacitors. Nano Letters, 2015, 15, 2037-2044.	4.5	134
1916	Ternary-layered nitrogen-doped graphene/sulfur/ polyaniline nanoarchitecture for the high-performance of lithium-sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 8022-8027.	5.2	49
1917	A simple microexplosion synthesis of graphene-based scroll-sheet conjoined nanomaterials for enhanced supercapacitor properties. Electrochimica Acta, 2015, 172, 71-76.	2.6	9
1918	Reed Leaves as a Sustainable Silica Source for 3D Mesoporous Nickel (Cobalt) Silicate Architectures Assembled into Ultrathin Nanoflakes for High-Performance Supercapacitors. Advanced Materials Interfaces, 2015, 2, 1400377.	1.9	62
1919	Electrocatalyst on Insulating Support?: Hollow Silica Spheres Loaded with Pt Nanoparticles for Methanol Oxidation. ACS Applied Materials & Interfaces, 2015, 7, 6590-6595.	4.0	60
1920	Nanostructured Carbon Materials for Energy Conversion and Storage. RSC Catalysis Series, 2015, , 445-506.	0.1	0
1921	Preparation of NiCo ₂ O ₄ Nanosheet Arrays and its High Catalytic Performance for H ₂ O ₂ Electroreduction. Fuel Cells, 2015, 15, 298-305.	1.5	24
1922	One-dimensional nanostructures for flexible supercapacitors. Journal of Materials Chemistry A, 2015, 3, 16382-16392.	5.2	70
1923	Three-dimensional Co ₃ O ₄ @C@Ni ₃ S ₂ sandwich-structured nanoneedle arrays: towards high-performance flexible all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 16150-16161.	5.2	171
1924	Recent advances on multi-component hybrid nanostructures for electrochemical capacitors. Journal of Power Sources, 2015, 294, 31-50.	4.0	107
1925	Facile self-templating large scale preparation of biomass-derived 3D hierarchical porous carbon for advanced supercapacitors. Journal of Materials Chemistry A, 2015, 3, 18154-18162.	5.2	424
1926	Highly porous graphitic carbon and Ni ₂ P ₂ O ₇ for a high performance aqueous hybrid supercapacitor. Journal of Materials Chemistry A, 2015, 3, 21553-21561.	5.2	153
1927	Sulfur loaded in curved graphene and coated with conductive polyaniline: preparation and performance as a cathode for lithium-sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 18098-18104.	5.2	47
1928	A Simple Dip-coating Approach for Preparation of Three-dimensional Multilayered Graphene-Metal Oxides Hybrid Nanostructures as High Performance Lithium-Ion Battery Electrodes. Electrochimica Acta, 2015, 176, 1182-1190.	2.6	20
1929	Design of aqueous redox-enhanced electrochemical capacitors with high specific energies and slow self-discharge. Nature Communications, 2015, 6, 7818.	5.8	300
1930	Influence of Temperature on Supercapacitor Components. SpringerBriefs in Applied Sciences and Technology, 2015, , 27-69.	0.2	1
1931	Honeycomb-like three electrodes based triboelectric generator for harvesting energy in full space and as a self-powered vibration alertor. Nano Energy, 2015, 15, 766-775.	8.2	26
1932	Light-Driven Proton Reduction in Aqueous Medium Catalyzed by a Family of Cobalt Complexes with Tetradentate Polypyridine-Type Ligands. Inorganic Chemistry, 2015, 54, 7873-7884.	1.9	24

#	ARTICLE	IF	CITATIONS
1933	In situ synthesis of mesoporous manganese oxide/sulfur-doped graphitized carbon as a bifunctional catalyst for oxygen evolution/reduction reactions. <i>Carbon</i> , 2015, 94, 1028-1036.	5.4	72
1934	O ₂ and H ₂ O ₂ transformation steps for the oxygen reduction reaction catalyzed by graphitic nitrogen-doped carbon nanotubes in acidic electrolyte from first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21950-21959.	1.3	22
1935	Synthesis and Development of Graphene-Inorganic Semiconductor Nanocomposites. <i>Chemical Reviews</i> , 2015, 115, 8294-8343.	23.0	227
1936	Hydrothermal synthesis of highly crystalline RuS ₂ nanoparticles as cathodic catalysts in the methanol fuel cell and hydrochloric acid electrolysis. <i>Materials Research Bulletin</i> , 2015, 65, 110-115.	2.7	29
1937	Charge transfer and storage in nanostructures. <i>Materials Science and Engineering Reports</i> , 2015, 96, 1-69.	14.8	74
1938	Microwave-assisted synthesis of Mn ₃ O ₄ nanoparticles@reduced graphene oxide nanocomposites for high performance supercapacitors. <i>Materials Research Bulletin</i> , 2015, 70, 945-950.	2.7	53
1939	Study on the Catalytic Activity of Noble Metal Nanoparticles on Reduced Graphene Oxide for Oxygen Evolution Reactions in Lithium-Air Batteries. <i>Nano Letters</i> , 2015, 15, 4261-4268.	4.5	149
1940	Simultaneous Oxidation and Doping of Aniline to Polyaniline by Oxidative Template: Electrochemical Performance in Supercapacitor. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2015, 64, 939-945.	1.8	15
1941	Single-Molecule Investigations of Morphology and Mass Transport Dynamics in Nanostructured Materials. <i>Annual Review of Analytical Chemistry</i> , 2015, 8, 193-216.	2.8	50
1942	Preparation and characterization of nanocomposites with polyphenylene oxide. , 2015, , 199-224.		2
1943	Electrochemical capacitance of iron oxide nanotube (Fe-NT): effect of annealing atmospheres. <i>Nanotechnology</i> , 2015, 26, 265401.	1.3	20
1944	Facile one-step hydrothermal preparation of molybdenum disulfide/carbon composite for use in supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 10150-10157.	3.8	179
1945	Shape-controlled porous heterogeneous PtRu/C/Nafion microspheres enabling high performance direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15177-15183.	5.2	19
1946	3D flower-like NaHTi ₃ O ₇ nanotubes as high-performance anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16528-16534.	5.2	24
1947	Porphyrin-based graphene oxide frameworks with ultra-large d-spacings for the electrocatalyzation of oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19538-19545.	1.3	37
1948	A novel cathode material based on polystyrene with pendant TEMPO moieties obtained via click reaction and its use in rechargeable batteries. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	14
1949	Water Assistance in Ion Transfer during Charge and Discharge Cycles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15185-15194.	1.5	9
1950	Vibrational spectroscopy at electrolyte/electrode interfaces with graphene gratings. <i>Nature Communications</i> , 2015, 6, 7593.	5.8	15

#	ARTICLE	IF	CITATIONS
1951	Thermal Management in Electrochemical Energy Storage Systems. SpringerBriefs in Applied Sciences and Technology, 2015, , 1-10.	0.2	5
1952	Three-dimensional nanoporous gold-cobalt oxide electrode for high-performance electroreduction of hydrogen peroxide in alkaline medium. Journal of Power Sources, 2015, 294, 136-140.	4.0	26
1953	High-Performance, Ultralow Platinum Membrane Electrode Assembly Fabricated by In Situ Deposition of a Pt Shell Layer on Carbon-Supported Pd Nanoparticles in the Catalyst Layer Using a Facile Pulse Electrodeposition Approach. ACS Catalysis, 2015, 5, 4318-4324.	5.5	64
1954	Fabrication and properties of polybutadiene rubber-interpenetrating cross-linking poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overloc 52978-52984.	1.7	25
1955	Facile Synthesis of Nitrogen and Sulfur Dual-doped Hierarchical Micro/mesoporous Carbon Foams as Efficient Metal-free Electrocatalysts for Oxygen Reduction Reaction. Electrochimica Acta, 2015, 174, 826-836.	2.6	42
1956	Pt(Ni) electrocatalysts for methanol oxidation prepared by galvanic replacement on TiO ₂ and TiO ₂ @C powder supports. Journal of Electroanalytical Chemistry, 2015, 754, 65-74.	1.9	24
1957	Lithium-ion polymer cells assembled with a reactive composite separator containing vinyl-functionalized SiO ₂ particles. Journal of Power Sources, 2015, 295, 149-155.	4.0	23
1958	Vertically oriented Ni ₃ S ₂ /RGO/Ni ₃ S ₂ nanosheets on Ni foam for superior supercapacitors. RSC Advances, 2015, 5, 63528-63536.	1.7	41
1959	3-dimensional porous NiCo ₂ O ₄ nanocomposite as a high-rate capacity anode for lithium-ion batteries. Electrochimica Acta, 2015, 176, 575-585.	2.6	72
1960	MOF derived Co ₃ O ₄ nanoparticles embedded in N-doped mesoporous carbon layer/MWCNT hybrids: extraordinary bi-functional electrocatalysts for OER and ORR. Journal of Materials Chemistry A, 2015, 3, 17392-17402.	5.2	351
1961	Enhancement of electrochemical capacitance by tailoring the geometry of TiO ₂ nanotube electrodes. Electrochimica Acta, 2015, 176, 1214-1220.	2.6	24
1962	Ultrathin mesoporous NiO nanosheet-anchored 3D nickel foam as an advanced electrode for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 17469-17478.	5.2	95
1963	Electrochemical preparation and energy storage properties of nanoporous Co(OH) ₂ via pulse current deposition. Journal of Materials Science, 2015, 50, 6491-6497.	1.7	24
1964	Three dimensional graphene networks for supercapacitor electrode materials. New Carbon Materials, 2015, 30, 193-206.	2.9	49
1965	Energy in the small: micro-scale energy sources. , 2015, , 51-100.		0
1966	Synthesis of carbon core-shell pore structures and their performance as supercapacitors. Microporous and Mesoporous Materials, 2015, 218, 130-136.	2.2	35
1967	Nickel Hydroxide-Modified Sulfur/Carbon Composite as a High-Performance Cathode Material for Lithium Sulfur Battery. ACS Applied Materials & Interfaces, 2015, 7, 16715-16722.	4.0	87
1968	Capacitor simulation including of X-doped graphene (X = Li, Be, B) as two electrodes and (h-BN) _m (<i>m</i> = 1-4) as the insulator. Japanese Journal of Applied Physics, 2015, 54, 085101.	0.8	11

#	ARTICLE	IF	CITATIONS
1969	Reduced graphene oxide anchored Cu(OH) ₂ as a high performance electrochemical supercapacitor. Dalton Transactions, 2015, 44, 14604-14612.	1.6	76
1970	Carbon-neutral sustainable energy technology: Direct ethanol fuel cells. Renewable and Sustainable Energy Reviews, 2015, 50, 1462-1468.	8.2	235
1971	Preparation and characterization of phosphoric acid-doped hydroxyethyl cellulose electrolyte for use in supercapacitor. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	1.5	30
1972	Enhanced activity and stability of binuclear iron (III) phthalocyanine on graphene nanosheets for electrocatalytic oxygen reduction in acid. Journal of Power Sources, 2015, 293, 511-518.	4.0	54
1973	Fabrication of the Mesoporous Fe@MnO ₂ NPs@MCM-41 Nanocomposite: An Efficient Photocatalyst for Rapid Degradation of Phenolic Compounds. Journal of Physical Chemistry C, 2015, 119, 14145-14159.	1.5	23
1974	Improved Cycle Stability and Rate Capability of Graphene Oxide Wrapped Tavorite LiFeSO ₄ F as Cathode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 13972-13979.	4.0	18
1975	Morphology controllable nano-sheet polypyrrole@graphene composites for high-rate supercapacitor. Physical Chemistry Chemical Physics, 2015, 17, 19885-19894.	1.3	100
1976	Nitrogen-doped carbon sheets derived from chitin as non-metal bifunctional electrocatalysts for oxygen reduction and evolution. RSC Advances, 2015, 5, 56121-56129.	1.7	79
1977	Dioxygen Activation and Catalytic Reduction to Hydrogen Peroxide by a Thiolate-Bridged Dimanganese(II) Complex with a Pendant Thiol. Journal of the American Chemical Society, 2015, 137, 8644-8653.	6.6	56
1978	Trimetallic PtSnRh Wavy Nanowires as Efficient Nanoelectrocatalysts for Alcohol Electrooxidation. ACS Applied Materials & Interfaces, 2015, 7, 15061-15067.	4.0	90
1979	Rational design and synthesis of polythioureas as capacitor dielectrics. Journal of Materials Chemistry A, 2015, 3, 14845-14852.	5.2	81
1980	A review on porous negative electrodes for high performance lithium-ion batteries. Journal of Porous Materials, 2015, 22, 1313-1343.	1.3	52
1981	Polyanthraquinone-based nanostructured electrode material capable of high-performance pseudocapacitive energy storage in aprotic electrolyte. Nano Energy, 2015, 15, 654-661.	8.2	63
1982	One pot hydrothermal synthesis of graphene like MoS ₂ nanosheets for application in high performance lithium ion batteries. RSC Advances, 2015, 5, 57666-57670.	1.7	35
1983	An assembled-nanosheets discus-like Ni(OH) ₂ hierarchical structure as a high performance electrode material for supercapacitors. RSC Advances, 2015, 5, 59659-59664.	1.7	6
1984	Designing Heterogeneous 1D Nanostructure Arrays Based on AAO Templates for Energy Applications. Small, 2015, 11, 3408-3428.	5.2	92
1985	Influence of imidazolium-based ionic liquid electrolytes on the performance of nano-structured MnO ₂ hollow spheres as electrochemical supercapacitor. RSC Advances, 2015, 5, 41617-41626.	1.7	56
1986	Effect of the mass transport limitations on the stability window of electrolytes for metal-ion batteries. Electrochimica Acta, 2015, 167, 262-267.	2.6	12

#	ARTICLE	IF	CITATIONS
1987	Oxidized carbon nanotubes as an efficient metal-free electrocatalyst for the oxygen reduction reaction. RSC Advances, 2015, 5, 41901-41904.	1.7	34
1988	Synthesis and electrochemical properties of poly (2-ethynylpyridine) functionalized graphene nanosheets. Journal of Alloys and Compounds, 2015, 640, 267-274.	2.8	10
1989	Aminopyrene functionalized reduced graphene oxide as a supercapacitor electrode. RSC Advances, 2015, 5, 38111-38116.	1.7	49
1990	Iron-embedded boron nitride nanosheet as a promising electrocatalyst for the oxygen reduction reaction (ORR): A density functional theory (DFT) study. Journal of Power Sources, 2015, 287, 431-438.	4.0	99
1991	Optimal structural design of residential cogeneration systems with battery based on improved solution method for mixed-integer linear programming. Energy, 2015, 84, 106-120.	4.5	23
1992	In situ growth of hierarchical mesoporous NiCo ₂ S ₄ @MnO ₂ arrays on nickel foam for high-performance supercapacitors. Electrochimica Acta, 2015, 166, 302-309.	2.6	150
1993	Electrochemical lithium storage kinetics of self-organized nanochannel niobium oxide electrodes. Journal of Electroanalytical Chemistry, 2015, 746, 45-50.	1.9	19
1994	Nitrogen, phosphorus and iron doped carbon nanospheres with high surface area and hierarchical porous structure for oxygen reduction. Journal of Power Sources, 2015, 288, 253-260.	4.0	55
1995	Constructing proton-conductive highways within an ionomer membrane by embedding sulfonated polymer brush modified graphene oxide. Journal of Power Sources, 2015, 286, 445-457.	4.0	140
1996	Ultrafine Ag/MnO nanowire-constructed hair-like nanoarchitecture: In situ synthesis, formation mechanism and its supercapacitive property. Journal of Alloys and Compounds, 2015, 644, 47-53.	2.8	11
1997	Hierarchical mesoporous graphene@Ni-Co-S arrays on nickel foam for high-performance supercapacitors. Electrochimica Acta, 2015, 161, 351-357.	2.6	105
1998	One-Pot Hydrothermal Synthesis of Reduced Graphene Oxide@Multiwalled Carbon Nanotubes Composite Material on Nickel Foam for Efficient Supercapacitor Electrode. Electrocatalysis, 2015, 6, 373-381.	1.5	6
1999	Graphene based integrated tandem supercapacitors fabricated directly on separators. Nano Energy, 2015, 15, 1-8.	8.2	30
2000	Ammonia Decomposition over Iron Phthalocyanine-Based Materials. ChemCatChem, 2015, 7, 1453-1459.	1.8	13
2001	One-Pot Synthesis of Tunable Crystalline Ni ₃ S ₄ @Amorphous MoS ₂ Core/Shell Nanospheres for High-Performance Supercapacitors. Small, 2015, 11, 3694-3702.	5.2	243
2002	Large-scale virtual high-throughput screening for the identification of new battery electrolyte solvents: computing infrastructure and collective properties. Physical Chemistry Chemical Physics, 2015, 17, 3394-3401.	1.3	56
2003	In-situ synthesis of vanadium pentoxide nanofibre/exfoliated graphene nanohybrid and its supercapacitor applications. Journal of Power Sources, 2015, 287, 283-290.	4.0	43
2004	High-Performance Solid-State Supercapacitors Fabricated by Pencil Drawing and Polypyrrole Depositing on Paper Substrate. Nano-Micro Letters, 2015, 7, 276-281.	14.4	43

#	ARTICLE	IF	CITATIONS
2005	Electrochemical behavior of Li-MoO_3 nanobelts as cathode material for lithium ion batteries. Russian Journal of Electrochemistry, 2015, 51, 119-124.	0.3	7
2006	Using molecular dynamics to quantify the electrical double layer and examine the potential for its direct observation in the in-situ TEM. Advanced Structural and Chemical Imaging, 2015, 1, .	4.0	32
2007	Effects of nitrogen- and oxygen-containing functional groups of activated carbon nanotubes on the electrochemical performance in supercapacitors. Journal of Power Sources, 2015, 285, 303-309.	4.0	182
2008	Metal-organic frameworks and their derived nanostructures for electrochemical energy storage and conversion. Energy and Environmental Science, 2015, 8, 1837-1866.	15.6	1,483
2009	Catalytic Two-Electron Reduction of Dioxygen by Ferrocene Derivatives with Manganese(V) Corroles. Inorganic Chemistry, 2015, 54, 4285-4291.	1.9	33
2010	Facile synthesis of graphene/N-doped carbon nanowire composites as an effective electrocatalyst for the oxygen reduction reaction. International Journal of Hydrogen Energy, 2015, 40, 6827-6834.	3.8	26
2011	Numerical Modeling of Advancing Wave Front in Dam Break Problem by Incompressible Navier-stokes Solver. Aquatic Procedia, 2015, 4, 861-867.	0.9	3
2012	New fluorinated xanthene-containing polybenzoxazoles with low dielectric constants. Journal of Fluorine Chemistry, 2015, 175, 169-175.	0.9	13
2013	Effect of Time Interval Between Tumescant Local Anesthesia Infiltration and Start of Surgery on Operative Field Visibility in Hand Surgery Without Tourniquet. Journal of Hand Surgery, 2015, 40, 1606-1609.	0.7	18
2014	Sponsoring public transport and health in older people. Maturitas, 2015, 81, 239-240.	1.0	1
2015	Access to locally-oriented television broadcasting in a digital era. Applied Geography, 2015, 60, 280-287.	1.7	1
2016	Ruptured aneurysmal subarachnoid hemorrhage in the emergency department: Clinical outcome of patients having a lumbar puncture for red blood cell count, visual and spectrophotometric xanthochromia after a negative computed tomography. Clinical Biochemistry, 2015, 48, 634-639.	0.8	17
2017	Effect of Ultrasonic Activation of Irrigants on Smear Layer Removal. Journal of Endodontics, 2015, 41, 1359-1363.	1.4	56
2018	Rechallenging 5-Fluorouracil in a Patient With Capecitabine-Induced Ventricular Fibrillation. Clinical Colorectal Cancer, 2015, 14, 198-201.	1.0	6
2019	Láser resección transuretral prostática: estudio de seguridad con un nuevo sistema de fotovaporización selectiva con láser de diodo de alta intensidad en próstatas mayores de 80ml. Actas Urológicas Españolas, 2015, 39, 375-382.	0.3	2
2020	Continued Caution Recommended in Use of Intravenous Iron Preparations. Mayo Clinic Proceedings, 2015, 90, 695-696.	1.4	0
2021	Evisceración vaginal traumática en mujer posmenopáusica. Progresos En Obstetricia Y Ginecología, 2015, 58, 373-376.	0.0	0
2022	Which high-risk HPV assays fulfil criteria for use in primary cervical cancer screening?. Clinical Microbiology and Infection, 2015, 21, 817-826.	2.8	234

#	ARTICLE	IF	CITATIONS
2023	Characterisation of <i>Alternaria alternata</i> manganese-dependent superoxide dismutase, a cross-reactive allergen homologue to Asp f 6. <i>Immunobiology</i> , 2015, 220, 851-858.	0.8	13
2024	Accessory soleus muscle in an athlete. Presentation of a case and a literature review. <i>Apunts Medicine De L'Esport</i> , 2015, 50, 79-82.	0.5	2
2025	Permeation measurement of gestodene for some biodegradable materials using Franz diffusion cells. <i>Saudi Pharmaceutical Journal</i> , 2015, 23, 413-420.	1.2	5
2028	Adiponectin is independently associated with NT-proBNP: The Multi-Ethnic Study of Atherosclerosis. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2015, 25, 780-786.	1.1	10
2029	Cognition in the Finnish Diabetes Prevention Study. <i>Diabetes Research and Clinical Practice</i> , 2015, 108, e63-e66.	1.1	21
2030	Fracturas de estrÃ©s de la escÃ¡pula tras artroplastia invertida en artropatÃ¡a de manguito: Â¿cuÃ¡l es su repercusiÃ³n funcional?. <i>Revista EspaÃ±ola De CirugÃ­a OrtopÃ©dica Y TraumatologÃ­a</i> , 2015, 59, 318-325.	0.1	12
2031	Shear localization sensitivity analysis for Johnsonâ€™Cook constitutive parameters on serrated chips in high speed machining of Ti6Al4V. <i>Simulation Modelling Practice and Theory</i> , 2015, 55, 63-76.	2.2	77
2032	Geographic region and racial variations in polypharmacy in the United States. <i>Annals of Epidemiology</i> , 2015, 25, 433-438.e1.	0.9	20
2033	Superconductivity in Biâ€™Pbâ€™Srâ€™Caâ€™Cuâ€™O ceramics with YBCO as additive. <i>Journal of Alloys and Compounds</i> , 2015, 645, 269-273.	2.8	13
2034	Effects of long-term consumption of standard diets including glucoseâ€™lysine model glyated compounds on the antioxidant status of adult rats. <i>Food Chemistry</i> , 2015, 183, 283-290.	4.2	10
2035	Prehospital trauma care education for first responders in India. <i>Journal of Surgical Research</i> , 2015, 197, 331-338.	0.8	27
2036	Travail postÃ©: quel(s) critÃ©re(s) de pÃ©nibilitÃ©?. <i>Archives Des Maladies Professionnelles Et De L'Environnement</i> , 2015, 76, 292-301.	0.1	3
2037	Altered cytokine profiles in children with indeterminate quantiferon results and common infections. <i>Journal of Infection</i> , 2015, 71, 250-257.	1.7	4
2038	Mass transfer performance in an Oldshueâ€™Rushton column extractor. <i>Chemical Engineering Research and Design</i> , 2015, 100, 104-112.	2.7	22
2039	The Art and Science of Diagnosing and Treating Lung and Heart Disease Secondary to Liver Disease. <i>Clinical Gastroenterology and Hepatology</i> , 2015, 13, 2118-2127.	2.4	30
2040	Microbiological Profile Resistant to Different Intracanal Medications in Primary Endodontic Infections. <i>Journal of Endodontics</i> , 2015, 41, 824-830.	1.4	32
2041	Interorganizational cooperation in sport tourism: A social network analysis. <i>Sport Management Review</i> , 2015, 18, 542-554.	1.9	65
2042	Transcriptional Activation of Nuclear-Related Factor 2 by FK506 in Jurkat T Cells. <i>Transplantation Proceedings</i> , 2015, 47, 770-774.	0.3	3

#	ARTICLE	IF	CITATIONS
2045	Determination of copper (II) in foodstuffs based on its quenching effect on the fluorescence of N,Nâ€²-bis(pyridoxal phosphate)-o-phenylenediamine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 662-666.	2.0	3
2046	Ferromagneticâ€“ferromagneticâ€“antiferromagneticâ€“antiferromagnetic correlation and magnetization plateau in spin-1/2 J1â€“J1â€“J2â€“J2 tetrameric chains. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 392, 1.0 56-62.	1.0	1
2047	Spontaneous grafting of 9,10-phenanthrenequinone on porous carbon as an active electrode material in an electrochemical capacitor in an alkaline electrolyte. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6146-6156.	5.2	70
2048	Switchable electrolyte properties and redox chemistry in aqueous media based on temperature-responsive polymers. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 921-930.	1.5	6
2049	Iridium Oxide Coatings with Templated Porosity as Highly Active Oxygen Evolution Catalysts: Structureâ€“Activity Relationships. <i>ChemSusChem</i> , 2015, 8, 1908-1915.	3.6	112
2050	NiO hybrid nanoarchitecture-based pseudocapacitor in organic electrolyte with high rate capability and cycle life. <i>Ionics</i> , 2015, 21, 2623-2631.	1.2	19
2051	Electrochemical fabrication of Ni(OH) ₂ /Ni 3D porous composite films as integrated capacitive electrodes. <i>RSC Advances</i> , 2015, 5, 12931-12936.	1.7	69
2052	Structural and electrochemical analysis of a novel co-electrodeposited Mn ₂ O ₃ â€“Au nanocomposite thin film. <i>Dalton Transactions</i> , 2015, 44, 9158-9169.	1.6	22
2053	Nanoporous Activated Carbons Derived from Agro-Waste Corn cob for Enhanced Electrochemical and Sensing Performance. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1108-1115.	2.0	57
2054	Electrochemical and kinetic studies of ultrafast laser structured LiFePO ₄ electrodes. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
2055	Extending Battery Management Systems for Making Informed Decisions on Battery Reuse. <i>Lecture Notes in Computer Science</i> , 2015, , 447-454.	1.0	8
2056	Anchoring High-dispersed MnO ₂ Nanowires on Nitrogen Doped Graphene as Electrode Materials for Supercapacitors. <i>Electrochimica Acta</i> , 2015, 173, 338-344.	2.6	38
2057	Hybrid of porous cobalt oxide nanospheres and nitrogen-doped graphene for applications in lithium-ion batteries and oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015, 290, 25-34.	4.0	72
2058	Vertically-Oriented Graphene for Other Energy Storage and Conversion Applications. , 2015, , 97-108.		0
2059	Facile synthesis of reduced graphene oxide/CeO ₂ nanocomposites and their application in supercapacitors. <i>Ceramics International</i> , 2015, 41, 8710-8716.	2.3	63
2060	Enhanced Performance of nano-Bi ₂ WO ₆ -Graphene as Pseudocapacitor Electrodes by Charge Transfer Channel. <i>Scientific Reports</i> , 2015, 5, 8624.	1.6	22
2061	Synthesis of wood derived nitrogen-doped porous carbonâ€“polyaniline composites for supercapacitor electrode materials. <i>RSC Advances</i> , 2015, 5, 30943-30949.	1.7	73
2062	Scalable, template-free synthesis of conducting polymer microtubes. <i>RSC Advances</i> , 2015, 5, 25504-25512.	1.7	12

#	ARTICLE	IF	CITATIONS
2063	Hierarchical micro-architectures of electrodes for energy storage. <i>Journal of Power Sources</i> , 2015, 284, 435-445.	4.0	70
2064	Electrospun materials for lithium and sodium rechargeable batteries: from structure evolution to electrochemical performance. <i>Energy and Environmental Science</i> , 2015, 8, 1660-1681.	15.6	362
2065	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. <i>Nanoscale</i> , 2015, 7, 7318-7322.	2.8	175
2066	Sculpturing metal foams toward bifunctional 3D copper oxide nanowire arrays for pseudo-capacitance and enzyme-free hydrogen peroxide detection. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8734-8741.	5.2	45
2067	Enhanced Electrocatalytic Performance for Oxygen Reduction via Active Interfaces of Layer-By-Layered Titanium Nitride/Titanium Carbonitride Structures. <i>Scientific Reports</i> , 2014, 4, 6712.	1.6	59
2068	Sulfur supported by carbon nanotubes and coated with polyaniline: Preparation and performance as cathode of lithium-sulfur cell. <i>Electrochimica Acta</i> , 2015, 166, 93-99.	2.6	61
2069	Homogeneous core-shell NiCo ₂ S ₄ nanostructures supported on nickel foam for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12452-12460.	5.2	428
2070	Confining MoS ₂ nanodots in 3D porous nitrogen-doped graphene with amendable ORR performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7616-7622.	5.2	62
2071	Redox-Mediated Synthesis of a Fe ₃ O ₄ @MnO ₂ Nanocomposite for Dye Adsorption and Pseudocapacitance. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1571-1580.	1.7	27
2072	Three-dimensional hierarchical porous carbon/graphene composites derived from graphene oxide-chitosan hydrogels for high performance supercapacitors. <i>Electrochimica Acta</i> , 2015, 171, 13-22.	2.6	120
2073	A post-oxidation strategy for the synthesis of graphene/carbon nanotube-supported polyaniline nanocomposites as advanced supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 24599-24606.	1.7	12
2074	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. <i>ACS Nano</i> , 2015, 9, 5636-5645.	7.3	127
2075	Metal-Free Catalysts for Oxygen Reduction Reaction. <i>Chemical Reviews</i> , 2015, 115, 4823-4892.	23.0	2,083
2076	Band edge engineering of TiO ₂ @DNA nanohybrids and implications for capacitive energy storage devices. <i>Nanoscale</i> , 2015, 7, 10438-10448.	2.8	37
2077	Molecular Mechanisms for the Lithiation of Ruthenium Oxide Nanoplates as Lithium-Ion Battery Anode Materials: An Experimentally Motivated Computational Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9705-9713.	1.5	24
2078	Recent Progress on Printed Flexible Batteries: Mechanical Challenges, Printing Technologies, and Future Prospects. <i>Energy Technology</i> , 2015, 3, 305-328.	1.8	154
2079	Layer-by-layer assembly of manganese-cobalt-nickel oxide nanosheets/graphene composite films. <i>Materials Research Bulletin</i> , 2015, 68, 194-202.	2.7	20
2080	Electrochemical nanoarchitectonics and layer-by-layer assembly: From basics to future. <i>Nano Today</i> , 2015, 10, 138-167.	6.2	284

#	ARTICLE	IF	CITATIONS
2081	High-performance graphene/sulphur electrodes for flexible Li-ion batteries using the low-temperature spraying method. <i>Nanoscale</i> , 2015, 7, 8093-8100.	2.8	23
2082	Porous MnO/Mn ₃ O ₄ nanocomposites for electrochemical energy storage. <i>Nano Energy</i> , 2015, 13, 702-708.	8.2	62
2083	SnS ₂ nanotubes: a promising candidate for the anode material for lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 32505-32510.	1.7	24
2084	Meso/Macroporous Nitrogen-Doped Carbon Architectures with Iron Carbide Encapsulated in Graphitic Layers as an Efficient and Robust Catalyst for the Oxygen Reduction Reaction in Both Acidic and Alkaline Solutions. <i>Advanced Materials</i> , 2015, 27, 2521-2527.	11.1	521
2085	Improved energy density of quasi-solid-state supercapacitors using sandwich-type redox-active gel polymer electrolytes. <i>Electrochimica Acta</i> , 2015, 166, 150-156.	2.6	113
2086	Vertically-Oriented Graphene. , 2015, , .		23
2087	Facile preparation of NiCo ₂ O ₄ nanobelt/graphene composite for electrochemical capacitor application. <i>Electrochimica Acta</i> , 2015, 166, 206-214.	2.6	58
2088	Recent development in 2D materials beyond graphene. <i>Progress in Materials Science</i> , 2015, 73, 44-126.	16.0	1,152
2090	Rational material design for ultrafast rechargeable lithium-ion batteries. <i>Chemical Society Reviews</i> , 2015, 44, 5926-5940.	18.7	857
2091	H ₂ purification by functionalized graphdiyne – role of nitrogen doping. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6767-6771.	5.2	67
2092	Non-covalent interactions and supercapacitance of pseudo-capacitive composite electrode materials (MWCNTCOOH/MnO ₂ /PANI). <i>Synthetic Metals</i> , 2015, 208, 2-12.	2.1	17
2093	Functional membranes via nanoparticle self-assembly. <i>Chemical Communications</i> , 2015, 51, 7770-7780.	2.2	23
2094	Improved synthesis of fluffy and wrinkled reduced graphene oxide for energy storage application. <i>Vacuum</i> , 2015, 117, 35-39.	1.6	28
2095	One-pot synthesis of small and uniform Au@PtCu core-shell nanoparticles as an efficient electrocatalyst for direct methanol fuel cells. <i>Applied Catalysis B: Environmental</i> , 2015, 174-175, 361-366.	10.8	57
2096	Synthesis of conjugated covalent organic frameworks/graphene composite for supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 27290-27294.	1.7	81
2097	Electron Spectroscopy Study of Li[Ni,Co,Mn] ₂ /Electrolyte Interface: Electronic Structure, Interface Composition, and Device Implications. <i>Chemistry of Materials</i> , 2015, 27, 2875-2887.	3.2	138
2098	Enhancing the capacitance and active surface utilization of supercapacitor electrode by graphene nanoplatelets. <i>Composites Science and Technology</i> , 2015, 112, 16-21.	3.8	32
2099	3D hierarchical SnO ₂ @Ni(OH) ₂ core-shell nanowire arrays on carbon cloth for energy storage application. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9538-9542.	5.2	33

#	ARTICLE	IF	CITATIONS
2103	Folded three-dimensional graphene with uniformly distributed mesopores for high-performance supercapacitors. RSC Advances, 2015, 5, 33767-33771.	1.7	4
2104	Three-Dimensional, Chemically Bonded Polypyrrole/Bacterial Cellulose/Graphene Composites for High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 7034-7041.	3.2	153
2105	Formation of Continuous Pt Films on the Graphite Surface by Atomic Layer Deposition with Reactive O ₃ . Chemistry of Materials, 2015, 27, 6802-6809.	3.2	27
2106	Effect of Superacidic Side Chain Structures on High Conductivity Aromatic Polymer Fuel Cell Membranes. Macromolecules, 2015, 48, 7117-7126.	2.2	57
2107	Highly pseudocapacitive Nb-doped TiO ₂ high power anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 22908-22914.	5.2	84
2108	PEDOT:PSS/graphene/PEDOT ternary film for high performance electrochemical electrode. Journal of Materials Science: Materials in Electronics, 2015, 26, 8292-8300.	1.1	22
2109	Saving electric energy by integrating a photoelectrode into a Li-ion battery. Journal of Materials Chemistry A, 2015, 3, 20903-20907.	5.2	56
2110	Enhanced Supercapacitive Performance of Carbonized Polyaniline by Conducting Wrapping. Nano, 2015, 10, 1550116.	0.5	1
2111	Trivalent Ti self-doped Li ₄ Ti ₅ O ₁₂ : A high performance anode material for lithium-ion capacitors. Journal of Electroanalytical Chemistry, 2015, 757, 1-7.	1.9	63
2112	Metal-free and metal porphyrins: A highly efficient catalysts to Li/SOCl ₂ battery. Journal of Porphyrins and Phthalocyanines, 2015, 19, 1219-1224.	0.4	3
2113	Dye-Sensitized and Doped TiO ₂ Mesoporous Materials for Visible Light-Induced Photocatalytic Hydrogen Evolution. ACS Symposium Series, 2015, , 81-101.	0.5	1
2114	Elastic Reduced Graphene Oxide Nanosheets Embedded in Germanium Nanofiber Matrix as Anode Material for High-Performance Li-Ion Battery. Electrochimica Acta, 2015, 186, 64-70.	2.6	26
2115	Anodic oxidization of Ti-Ni-Si amorphous alloy ribbons and their capacitive and resistive properties. Thin Solid Films, 2015, 595, 1-4.	0.8	5
2116	Rechargeable PEM Fuel-Cell Batteries Using Porous Carbon Modified with Carbonyl Groups as Anode Materials. Journal of the Electrochemical Society, 2015, 162, F868-F877.	1.3	21
2117	Recent advances in surface and interface engineering for electrocatalysis. Chinese Journal of Catalysis, 2015, 36, 1476-1493.	6.9	48
2118	Hollow Nitrogen-doped Fe ₃ O ₄ /Carbon Nanocages with Hierarchical Porosities as Anode Materials for Lithium-ion Batteries. Electrochimica Acta, 2015, 186, 50-57.	2.6	48
2119	Nitrogen-doped graphene/carbon nanotube/Co ₃ O ₄ hybrids: one-step synthesis and superior electrocatalytic activity for the oxygen reduction reaction. RSC Advances, 2015, 5, 94615-94622.	1.7	30
2120	Nitrogen and sulfur dual-doped graphene sheets as anode materials with superior cycling stability for lithium-ion batteries. Electrochimica Acta, 2015, 184, 24-31.	2.6	45

#	ARTICLE	IF	CITATIONS
2121	High-rate supercapacitive performance of GO/r-GO electrodes interfaced with plastic-crystal-based flexible gel polymer electrolyte. <i>Electrochimica Acta</i> , 2015, 182, 995-1007.	2.6	37
2122	Electric Double-Layer Effects Induce Separation of Aqueous Metal Ions. <i>ACS Nano</i> , 2015, 9, 10922-10930.	7.3	43
2123	Carambola-like Ni@Ni _{1.5} Co _{1.5} S ₂ for Use in High-Performance Supercapacitor Devices Design. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2777-2785.	3.2	86
2124	Methanol electro-oxidation on platinum modified tungsten carbides in direct methanol fuel cells: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25235-25243.	1.3	46
2125	Construction of hierarchical CoS nanowire@NiCo ₂ S ₄ nanosheet arrays via one-step ion exchange for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24033-24040.	5.2	119
2126	Synthesis, and crystal and electronic structure of sodium metal phosphate for use as a hybrid capacitor in non-aqueous electrolyte. <i>Dalton Transactions</i> , 2015, 44, 20108-20120.	1.6	50
2127	Core-shell nanospherical polypyrrole/graphene oxide composites for high performance supercapacitors. <i>RSC Advances</i> , 2015, 5, 91645-91653.	1.7	73
2128	Recent advances in designing and fabrication of planar micro-supercapacitors for on-chip energy storage. <i>Energy Storage Materials</i> , 2015, 1, 82-102.	9.5	114
2129	Depth profiling the solid electrolyte interphase on lithium titanate (Li ₄ Ti ₅ O ₁₂) using synchrotron-based photoelectron spectroscopy. <i>Journal of Power Sources</i> , 2015, 294, 173-179.	4.0	43
2130	Enhanced electrocatalytic activity of Pt nanoparticles supported on functionalized graphene for methanol oxidation and oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2015, 457, 102-107.	5.0	49
2131	Rechargeable Li ₂ CO ₂ batteries with carbon nanotubes as air cathodes. <i>Chemical Communications</i> , 2015, 51, 14636-14639.	2.2	203
2132	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. <i>Chemical Society Reviews</i> , 2015, 44, 7968-7996.	18.7	388
2133	Preparation of nano-PANI@MnO ₂ by surface initiated polymerization method using as a nano-tubular electrode material: The amount effect of aniline on the microstructure and electrochemical performance. <i>Journal of Energy Chemistry</i> , 2015, 24, 388-393.	7.1	24
2134	Numerical Analysis of Electric Double Layer Capacitors with Mesoporous Electrodes: Effects of Electrode and Electrolyte Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25235-25242.	1.5	35
2135	Aligned carbon nanostructures based 3D electrodes for energy storage. <i>Journal of Energy Chemistry</i> , 2015, 24, 559-586.	7.1	19
2136	Controlled Construction of Hierarchical Nanocomposites Consisting of MnO ₂ and PEDOT for High-Performance Supercapacitor Applications. <i>ChemElectroChem</i> , 2015, 2, 949-957.	1.7	34
2137	Poly(vinylpyrrolidone)-wrapped carbon nanotube-based fuel cell electrocatalyst shows high durability and performance under non-humidified operation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23316-23322.	5.2	36
2138	Boron-doped Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ as a cathode active material for lithium ion battery. <i>Solid State Ionics</i> , 2015, 281, 73-81.	1.3	30

#	ARTICLE	IF	CITATIONS
2139	In situ growth of nickel selenide nanowire arrays on nickel foil for methanol electro-oxidation in alkaline media. RSC Advances, 2015, 5, 87051-87054.	1.7	38
2140	Solvothermally induced $\text{Fe}_2\text{O}_3/\text{graphene}$ nanocomposites with ultrahigh capacitance and excellent rate capability for supercapacitors. Journal of Materials Chemistry A, 2015, 3, 22005-22011.	5.2	71
2141	3D braided yarns to create electrochemical cells. Electrochemistry Communications, 2015, 61, 27-31.	2.3	18
2142	Correlation between theoretical descriptor and catalytic oxygen reduction activity of graphene supported palladium and palladium alloy electrocatalysts. Journal of Power Sources, 2015, 300, 1-9.	4.0	38
2143	(Sub)surface-Promoted Disproportionation and Absolute Band Alignment in High-Power LiMn_2O_4 Cathodes. Journal of Physical Chemistry C, 2015, 119, 21358-21368.	1.5	29
2144	Development of electrochemical supercapacitors with uniform nanoporous silver network. Electrochimica Acta, 2015, 182, 224-229.	2.6	35
2145	Synthesis of activated carbon nanospheres with hierarchical porous structure for high volumetric performance supercapacitors. Electrochimica Acta, 2015, 182, 908-916.	2.6	86
2146	One-pot synthesis of 3D flower-like heterostructured $\text{SnS}_2/\text{MoS}_2$ for enhanced supercapacitor behavior. RSC Advances, 2015, 5, 89069-89075.	1.7	65
2147	Hybrid Energy Storage Devices Based on Monolithic Electrodes Containing Well-defined TiO_2 Nanotube Size Gradients. Electrochimica Acta, 2015, 176, 1393-1402.	2.6	28
2148	Activated carbon nanospheres derived from bio-waste materials for supercapacitor applications – a review. RSC Advances, 2015, 5, 88339-88352.	1.7	168
2149	Activated nanoporous carbon-gold nanoparticle composite electrode with enhanced volumetric capacitance. RSC Advances, 2015, 5, 86282-86290.	1.7	5
2150	Polydopamine-derived porous carbon fiber/cobalt composites for efficient oxygen reduction reactions. Journal of Materials Chemistry A, 2015, 3, 23299-23306.	5.2	67
2151	Structurally Ordered Pt_3Cr as Oxygen Reduction Electrocatalyst: Ordering Control and Origin of Enhanced Stability. Chemistry of Materials, 2015, 27, 7538-7545.	3.2	93
2152	Poly(ionic liquid) binders as Li^+ conducting mediators for enhanced electrochemical performance. RSC Advances, 2015, 5, 85517-85522.	1.7	35
2153	Rational Synthesis of Branched $\text{CoMoO}_4@\text{CoNiO}_2$ Core/Shell Nanowire Arrays for All-Solid-State Supercapacitors with Improved Performance. ACS Applied Materials & Interfaces, 2015, 7, 24204-24211.	4.0	79
2154	Synthesis And Electrochemical Characteristics Of Mechanically Alloyed Anode Materials SnS_2 For Li/SnS_2 Cells. Archives of Metallurgy and Materials, 2015, 60, 1191-1194.	0.6	0
2155	Nitrogen-enriched hierarchical porous carbon with enhanced performance in supercapacitors and lithium-sulfur batteries. RSC Advances, 2015, 5, 75403-75410.	1.7	8
2156	Development of a method for direct elemental analysis of lithium ion battery degradation products by means of total reflection X-ray fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 112, 34-39.	1.5	42

#	ARTICLE	IF	CITATIONS
2157	Electrochemical performances of cobalt oxide-carbon nanotubes electrodes via different methods as negative material for alkaline rechargeable batteries. RSC Advances, 2015, 5, 73410-73415.	1.7	4
2158	Sustainable Energy Application. , 2015, , 181-231.		1
2159	Sustainable Energy Application. , 2015, , 233-296.		6
2160	A Novel High-Power Battery-Pseudocapacitor Hybrid Based on Fast Lithium Reactions in Silicon Anode and Titanium Dioxide Cathode Coated on Vertically Aligned Carbon Nanofibers. Electrochimica Acta, 2015, 178, 797-805.	2.6	17
2161	Utilizing polyaniline to dominate the crystal phase of Ni(OH) ₂ and its effect on the electrochemical property of polyaniline/Ni(OH) ₂ composite. Journal of Alloys and Compounds, 2015, 651, 126-134.	2.8	36
2162	Rationally designed hierarchical ZnCo ₂ O ₄ /polypyrrole nanostructures for high-performance supercapacitor electrodes. RSC Advances, 2015, 5, 74523-74530.	1.7	54
2163	Hydrothermal Synthesis of Boron and Nitrogen Codoped Hollow Graphene Microspheres with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2015, 7, 19398-19407.	4.0	83
2164	Polymeric Ion Gels: Preparation Methods, Characterization, and Applications. , 2015, , 283-315.		4
2166	Facile Synthesis of Hierarchical Mesoporous Honeycomb-like NiO for Aqueous Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 19930-19940.	4.0	200
2167	Synthesis of Nitrogen-Doped Graphene as Highly Effective Cathode Materials for Li-Ion Hybrid Supercapacitors. Journal of the Electrochemical Society, 2015, 162, A2123-A2130.	1.3	16
2168	Proton Conduction Study on Water Confined in Channel or Layer Networks of La ^{III} M ^{III} (ox) ₃ ·10H ₂ O (M = Cr, Co, Ru, La). Inorganic Chemistry, 2015, 54, 8529-8535.	1.9	44
2169	A Density Functional Theory Study on Mechanism of Electrochemical Oxygen Reduction on FeN ₃ -Graphene. Journal of the Electrochemical Society, 2015, 162, F1262-F1267.	1.3	18
2170	Hollow SnO ₂ @Co ₃ O ₄ core-shell spheres encapsulated in three-dimensional graphene foams for high performance supercapacitors and lithium-ion batteries. Journal of Power Sources, 2015, 298, 83-91.	4.0	80
2171	Molecular dynamics simulations on lithium diffusion in LiFePO ₄ : the effect of anti-site defects. Journal of Materials Chemistry A, 2015, 3, 20399-20407.	5.2	32
2172	Electrode nanomaterials for lithium-ion batteries. Russian Chemical Reviews, 2015, 84, 826-852.	2.5	84
2173	Functional Biomass Carbons with Hierarchical Porous Structure for Supercapacitor Electrode Materials. Electrochimica Acta, 2015, 180, 241-251.	2.6	244
2174	Phase relation of Li ₂ O-CoO-P ₂ O ₅ ternary system and electrochemical behaviors of Co-base polyphosphates within this system. Journal of Alloys and Compounds, 2015, 646, 727-733.	2.8	5
2175	Self-assembled Ni/NiO/RGO heterostructures for high-performance supercapacitors. RSC Advances, 2015, 5, 77958-77964.	1.7	67

#	ARTICLE	IF	CITATIONS
2176	Characterizing Solid Electrolyte Interphase on Sn Anode in Lithium Ion Battery. Journal of the Electrochemical Society, 2015, 162, A7091-A7095.	1.3	47
2177	Review and prospects of Mn-based spinel compounds as cathode materials for lithium-ion batteries. Ionics, 2015, 21, 3001-3030.	1.2	45
2178	Free-standing 3D graphene/polyaniline composite film electrodes for high-performance supercapacitors. Journal of Power Sources, 2015, 299, 347-355.	4.0	163
2179	Nonstoichiometric Oxides as Low-Cost and Highly-Efficient Oxygen Reduction/Evolution Catalysts for Low-Temperature Electrochemical Devices. Chemical Reviews, 2015, 115, 9869-9921.	23.0	770
2180	Conductive enhancement of copper/graphene composites based on high-quality graphene. RSC Advances, 2015, 5, 80428-80433.	1.7	74
2181	Mesoporous carbons: recent advances in synthesis and typical applications. RSC Advances, 2015, 5, 83239-83285.	1.7	147
2182	Poly(ether ether ketone) (PEEK)-based graft-type polymer electrolyte membranes having high crystallinity for high conducting and mechanical properties under various humidified conditions. Journal of Materials Chemistry A, 2015, 3, 20983-20991.	5.2	35
2183	Degradable photopolymerized thiol-based solid polymer electrolytes towards greener Li-ion batteries. Polymer, 2015, 75, 64-72.	1.8	13
2184	The effect of various electrolyte cations on electrochemical performance of polypyrrole/RGO based supercapacitors. Physical Chemistry Chemical Physics, 2015, 17, 28666-28673.	1.3	140
2185	NanoCOT: Low-Cost Nanostructured Electrode Containing Carbon, Oxygen, and Titanium for Efficient Oxygen Evolution Reaction. Journal of the American Chemical Society, 2015, 137, 11996-12005.	6.6	61
2186	Preparation and electrochemical performance of corn straw-based nanoporous carbon. Journal of Porous Materials, 2015, 22, 1351-1355.	1.3	2
2187	Activated Carbon Nanochains with Tailored Micro-Meso Pore Structures and Their Application for Supercapacitors. Journal of Physical Chemistry C, 2015, 119, 21810-21817.	1.5	25
2188	Preparation of aqueous poly(3,4-ethylenedioxythiophene methanol)-poly(styrene sulfonate) dispersion and its capacitance performance as symmetric supercapacitors. Journal of Solid State Electrochemistry, 2015, 19, 3329-3338.	1.2	6
2189	Electrochemical Performance and Thermal Stability Studies of Two Lithium Sulfonyl Methide Salts in Lithium-Ion Battery Electrolytes. Journal of the Electrochemical Society, 2015, 162, A1738-A1744.	1.3	13
2190	Ionic liquid assisted solid-state synthesis of lithium iron oxide nanoparticles for rechargeable lithium ion batteries. Solid State Ionics, 2015, 280, 37-43.	1.3	7
2191	Carbon@NiCo ₂ S ₄ nanorods: an excellent electrode material for supercapacitors. RSC Advances, 2015, 5, 83408-83414.	1.7	34
2192	Three-dimensional nickel hydroxide/graphene composite hydrogels and their transformation to NiO/graphene composites for energy storage. Journal of Materials Chemistry A, 2015, 3, 21682-21689.	5.2	29
2193	Dynamic Electrochemical Properties of Extremely Stretchable Electrochemical Capacitor Using Reduced Graphene Oxide/Single-Wall Carbon Nanotubes Composite. Journal of the Electrochemical Society, 2015, 162, A2351-A2355.	1.3	4

#	ARTICLE	IF	CITATIONS
2194	Correlation of energy storage performance of supercapacitor with iso -propanol improved wettability of aqueous electrolyte on activated carbon electrodes of various apparent densities. Applied Energy, 2015, 159, 39-50.	5.1	26
2195	3D graphene based materials for energy storage. Current Opinion in Colloid and Interface Science, 2015, 20, 429-438.	3.4	77
2196	Polypyrrole nanosphere embedded in wrinkled graphene layers to obtain cross-linking network for high performance supercapacitors. Electrochimica Acta, 2015, 184, 179-185.	2.6	9
2197	Carbon Coated Flowery V2O5 Nanostructure as Novel Electrode Material for High Performance Supercapacitors. Electrochimica Acta, 2015, 186, 285-291.	2.6	48
2198	Synthesis of ternary graphene/molybdenum oxide/poly(p-phenylenediamine) nanocomposites for symmetric supercapacitors. RSC Advances, 2015, 5, 98278-98287.	1.7	23
2199	Growth of Polypyrrole Ultrathin Films on MoS ₂ Monolayers as High Performance Supercapacitor Electrodes. Advanced Materials, 2015, 27, 1117-1123.	11.1	691
2200	Zeolitic imidazolate framework-derived nitrogen-doped porous carbons as high performance supercapacitor electrode materials. Carbon, 2015, 85, 51-59.	5.4	275
2201	Heating Treated Carbon Nanotubes As Highly Active Electrocatalysts for Oxygen Reduction Reaction. Electrochimica Acta, 2015, 154, 177-183.	2.6	30
2202	An Aqueous Zinc Ion Battery Based on Copper Hexacyanoferrate. ChemSusChem, 2015, 8, 481-485.	3.6	607
2203	Polymer electrolyte membranes prepared by EB crosslinking of sulfonated poly(ether ether ketone) with 1,4-butanediol. Journal of Applied Polymer Science, 2015, 132, .	1.3	4
2204	Three-dimensional graphene-based composites for energy applications. Nanoscale, 2015, 7, 6924-6943.	2.8	241
2205	The effect of graphene on the performance of an electrochemical flow capacitor. Journal of Materials Chemistry A, 2015, 3, 2717-2725.	5.2	26
2206	Fungi-derived hierarchically porous carbons for high-performance supercapacitors. RSC Advances, 2015, 5, 4396-4403.	1.7	38
2207	Additive-free thick graphene film as an anode material for flexible lithium-ion batteries. Nanoscale, 2015, 7, 7065-7071.	2.8	46
2208	Supercapacitors Performance Evaluation. Advanced Energy Materials, 2015, 5, 1401401.	10.2	1,090
2209	A Simple Electrochemical Route to Access Amorphous Mixed Metal Hydroxides for Supercapacitor Electrode Materials. Advanced Energy Materials, 2015, 5, 1401767.	10.2	182
2210	N-doped structures and surface functional groups of reduced graphene oxide and their effect on the electrochemical performance of supercapacitor with organic electrolyte. Journal of Power Sources, 2015, 278, 218-229.	4.0	126
2211	Synthesis of hierarchical porous N-doped sandwich-type carbon composites as high-performance supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 3667-3675.	5.2	73

#	ARTICLE	IF	CITATIONS
2212	Shaped-controlled synthesis of porous NiCo ₂ O ₄ with 1-3 dimensional hierarchical nanostructures for high-performance supercapacitors. RSC Advances, 2015, 5, 1697-1704.	1.7	41
2213	Nitrogen-doped hierarchical porous carbon as an efficient electrode material for supercapacitors. Electrochimica Acta, 2015, 153, 273-279.	2.6	114
2214	A two-dimensional highly ordered mesoporous carbon/graphene nanocomposite for electrochemical double layer capacitors: effects of electrical and ionic conduction pathways. Journal of Materials Chemistry A, 2015, 3, 2314-2322.	5.2	49
2215	Rapid one-step synthesis and electrochemical properties of graphene/carbon nanotubes/MnO ₂ composites. Synthetic Metals, 2015, 199, 276-279.	2.1	27
2216	Ordered multiphase polymer nanocomposites for high-performance solid-state supercapacitors. Composites Part B: Engineering, 2015, 71, 40-44.	5.9	29
2217	Controlling Porosity in Lignin-Derived Nanoporous Carbon for Supercapacitor Applications. ChemSusChem, 2015, 8, 428-432.	3.6	196
2218	A low-cost, high-performance zinc-hydrogen peroxide fuel cell. Journal of Power Sources, 2015, 275, 831-834.	4.0	38
2219	High performance platinum nanorod assemblies based double-layered cathode for passive direct methanol fuel cells. Journal of Power Sources, 2015, 276, 95-101.	4.0	24
2220	Development of a carbon foam supercapacitor electrode from resorcinol-formaldehyde using a double templating method. Synthetic Metals, 2015, 199, 121-127.	2.1	11
2221	Facile one-pot synthesis of platinum nanoparticles decorated nitrogen-graphene with high electrocatalytic performance for oxygen reduction and anodic fuels oxidation. Journal of Power Sources, 2015, 277, 268-276.	4.0	29
2222	Performance improvement of passive direct methanol fuel cells with surface-patterned Nafion [®] membranes. Applied Surface Science, 2015, 327, 205-212.	3.1	22
2223	Porous Carbon Anodes for a High Capacity Lithium-Ion Battery Obtained by Incorporating Silica into Benzoxazine During Polymerization. Chemistry - A European Journal, 2015, 21, 1520-1525.	1.7	34
2224	Exceptional electrochemical performance of nitrogen-doped porous carbon for lithium storage. Carbon, 2015, 82, 116-123.	5.4	102
2225	Zinc ions doped poly(aniline-co-m-aminophenol) for high-performance supercapacitor. Synthetic Metals, 2015, 199, 169-173.	2.1	13
2226	Controlled growth of nanostructured MnO ₂ on carbon nanotubes for high-performance electrochemical capacitors. Electrochimica Acta, 2015, 152, 480-488.	2.6	77
2227	Electronic and Optoelectronic Materials and Device Innovations. , 2015, , 1049-1092.		0
2228	Temperature-dependent self-assembly of NiO/Co ₃ O ₄ composites for supercapacitor electrodes with good cycling performance: from nanoparticles to nanorod arrays. RSC Advances, 2015, 5, 1943-1948.	1.7	43
2229	Nitrogen-doped graphene supported highly dispersed palladium-lead nanoparticles for synergetic enhancement of ethanol electrooxidation in alkaline medium. Electrochimica Acta, 2015, 152, 68-74.	2.6	82

#	ARTICLE	IF	CITATIONS
2230	Synthesis of nitrogen-doped graphene supported Pt nanoparticles catalysts and their catalytic activity for fuel cells. <i>Electrochimica Acta</i> , 2015, 153, 566-573.	2.6	55
2231	Synthesis and characterization of sulfonated block copolyimides derived from 4,4'-sulfide-bis(naphthalic anhydride) for proton exchange membranes. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	4
2232	Facile fabrication of polyaniline nanotubes using the self-assembly behavior based on the hydrogen bonding: a mechanistic study and application in high-performance electrochemical supercapacitor electrode. <i>Electrochimica Acta</i> , 2015, 152, 126-134.	2.6	99
2233	Nickel cobaltite as an emerging material for supercapacitors: An overview. <i>Nano Energy</i> , 2015, 11, 377-399.	8.2	437
2234	Correlation of the structure and applications of dealloyed nanoporous metals in catalysis and energy conversion/storage. <i>Nanoscale</i> , 2015, 7, 386-400.	2.8	78
2235	Fe ₃ C-based oxygen reduction catalysts: synthesis, hollow spherical structures and applications in fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1752-1760.	5.2	116
2236	From a historic review to horizons beyond: lithium-sulphur batteries run on the wheels. <i>Chemical Communications</i> , 2015, 51, 18-33.	2.2	170
2237	Synthesis of free-standing carbon nanohybrid by directly growing carbon nanotubes on air-sprayed graphene oxide paper and its application in supercapacitor. <i>Journal of Solid State Chemistry</i> , 2015, 224, 45-51.	1.4	16
2238	A review of polymer-nanocomposite electrolyte membranes for fuel cell application. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 36-52.	2.9	398
2239	MnO ₂ Nanorods Intercalating Graphene Oxide/Polyaniline Ternary Composites for Robust High-Performance Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 4824.	1.6	215
2240	Facile electrostatic coprecipitation of f-SWCNT/Co ₃ O ₄ nanocomposite as supercapacitor material. <i>Ionics</i> , 2015, 21, 515-523.	1.2	20
2241	Ice crystals growth driving assembly of porous nitrogen-doped graphene for catalyzing oxygen reduction probed by in situ fluorescence electrochemistry. <i>Scientific Reports</i> , 2014, 4, 6723.	1.6	33
2242	Nanostructured CuO/PANI composite as supercapacitor electrode material. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 157-161.	1.9	79
2243	Transforming organic-rich amaranthus waste into nitrogen-doped carbon with superior performance of the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2015, 8, 221-229.	15.6	307
2244	Hierarchical NiCo ₂ O ₄ @nickel-sulfide nanoplate arrays for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2015, 276, 19-25.	4.0	96
2245	A Poly(3,4-ethylenedioxyppyrrrole)-Au@WO ₃ -Based Electrochromic Pseudocapacitor. <i>ChemPhysChem</i> , 2015, 16, 377-389.	1.0	41
2246	Fabrication of three-dimensional porous graphene-manganese dioxide composites as electrode materials for supercapacitors. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 465, 32-38.	2.3	36
2247	Synthesis of graphene-like MoS ₂ nanowall/graphene nanosheet hybrid materials with high lithium storage performance. <i>Catalysis Today</i> , 2015, 246, 165-171.	2.2	35

#	ARTICLE	IF	CITATIONS
2248	Stable silver nanoclusters electrochemically deposited on nitrogen-doped graphene as efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2015, 274, 1173-1179.	4.0	78
2249	Facilitated transport channels in carbon nanotube/carbon nanofiber hierarchical composites decorated with manganese dioxide for flexible supercapacitors. <i>Journal of Power Sources</i> , 2015, 274, 709-717.	4.0	79
2250	Tungsten nitride nanocrystals on nitrogen-doped carbon black as efficient electrocatalysts for oxygen reduction reactions. <i>Chemical Communications</i> , 2015, 51, 572-575.	2.2	72
2251	Prospects, challenges, and latest developments in lithium-air batteries. <i>International Journal of Energy Research</i> , 2015, 39, 303-316.	2.2	36
2252	CdS quantum dot sensitized p-type NiO as photocathode with integrated cobaloxime in photoelectrochemical cell for water splitting. <i>Chinese Chemical Letters</i> , 2015, 26, 141-144.	4.8	20
2253	Ultradispersed platinum nanoclusters on polydopamine-functionalized carbon nanotubes as an excellent catalyst for methanol oxidation reaction. <i>Applied Catalysis A: General</i> , 2015, 490, 65-70.	2.2	38
2254	Cobalt-Manganese-Based Spinel as Multifunctional Materials that Unify Catalytic Water Oxidation and Oxygen Reduction Reactions. <i>ChemSusChem</i> , 2015, 8, 164-171.	3.6	233
2255	Facile synthesis of MoS ₂ /MWNT anode material for high-performance lithium-ion batteries. <i>Ceramics International</i> , 2015, 41, 1921-1925.	2.3	11
2256	Fabrication of flexible micro-supercapacitor array with patterned graphene foam/MWNT-COOH/MnO electrodes and its application. <i>Carbon</i> , 2015, 81, 29-37.	5.4	79
2257	Ordered Network of Interconnected SnO ₂ Nanoparticles for Excellent Lithium-ion Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1401289.	10.2	147
2258	Hierarchical nanosheet-based NiMoO ₄ nanotubes: synthesis and high supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 739-745.	5.2	151
2259	Preparation of fibrous titania oxynitride carbon catalyst and oxygen reduction reaction analysis in both acidic and alkaline media. <i>Journal of Power Sources</i> , 2015, 273, 136-141.	4.0	13
2260	Nanostructured Mn-based oxides for electrochemical energy storage and conversion. <i>Chemical Society Reviews</i> , 2015, 44, 699-728.	18.7	740
2261	Recent development in spinel cobaltites for supercapacitor application. <i>Ceramics International</i> , 2015, 41, 1-14.	2.3	92
2262	Modular battery design for reliable, flexible and multi-technology energy storage systems. <i>Applied Energy</i> , 2015, 137, 931-937.	5.1	74
2263	The effects of stepped sites and ruthenium adatom decoration on methanol dehydrogenation over platinum-based catalyst surfaces. <i>Catalysis Today</i> , 2015, 242, 230-239.	2.2	10
2264	Controlled Growth of NiMoO ₄ Nanosheet and Nanorod Arrays on Various Conductive Substrates as Advanced Electrodes for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1401172.	10.2	559
2265	Effect of pH on the sonochemical synthesis of BiPO ₄ nanostructures and its electrochemical properties for pseudocapacitors. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 300-310.	3.8	73

#	ARTICLE	IF	CITATIONS
2266	Sulfur-Based Composite Cathode Materials for High-Energy Rechargeable Lithium Batteries. <i>Advanced Materials</i> , 2015, 27, 569-575.	11.1	293
2267	Mesoporous Co ₃ O ₄ sheets/3D graphene networks nano hybrids for high-performance sodium-ion battery anode. <i>Journal of Power Sources</i> , 2015, 273, 878-884.	4.0	164
2268	Overview of current development in electrical energy storage technologies and the application potential in power system operation. <i>Applied Energy</i> , 2015, 137, 511-536.	5.1	2,654
2269	A high-capacitance solid-state supercapacitor based on free-standing film of polyaniline and carbon particles. <i>Applied Energy</i> , 2015, 153, 87-93.	5.1	81
2270	All-graphene-battery: bridging the gap between supercapacitors and lithium ion batteries. <i>Scientific Reports</i> , 2014, 4, 5278.	1.6	185
2271	2D high-ordered nanoporous NiMoO ₄ for high-performance supercapacitors. <i>Ceramics International</i> , 2015, 41, 1831-1837.	2.3	55
2272	Tailored graphene systems for unconventional applications in energy conversion and storage devices. <i>Energy and Environmental Science</i> , 2015, 8, 31-54.	15.6	232
2273	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810.	2.8	2,452
2274	Nitrogen-Induced Surface Area and Conductivity Modulation of Carbon Nanohorn and Its Function as an Efficient Metal-Free Oxygen Reduction Electrocatalyst for Anion-Exchange Membrane Fuel Cells. <i>Small</i> , 2015, 11, 352-360.	5.2	83
2275	Chapter 5. Assessing the Need for High Impact Technology Research, Development & Deployment for Mitigating Climate Change. <i>Collabra</i> , 2016, 2, .	1.3	3
2276	Novel Proton Exchange Membranes Based on Sulfonated Cellulose Acetate for Fuel Cell Applications: Preparation and Characterization. <i>International Journal of Electrochemical Science</i> , 2016, 11, 10150-10171.	0.5	18
2277	MnO ₂ Density - Dependent Supercapacitive Characteristics of SiO ₂ /MnO ₂ Core-shell Nanostructure. <i>International Journal of Electrochemical Science</i> , 2016, , 6138-6148.	0.5	3
2279	Assembly of MnO/carbon Black Composite and Its Supercapacitor Application. <i>International Journal of Electrochemical Science</i> , 2016, 11, 5080-5089.	0.5	12
2280	Heteroatom-Doped Graphene-Based Hybrid Materials for Hydrogen Energy Conversion. , 2016, , .		7
2281	Carbon Supported Engineering NiCo ₂ O ₄ Hybrid Nanofibers with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>Materials</i> , 2016, 9, 759.	1.3	26
2282	Carbons, Ionic Liquids, and Quinones for Electrochemical Capacitors. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	11
2283	High-Efficiency Solar-Powered 3-D Printers for Sustainable Development. <i>Machines</i> , 2016, 4, 3.	1.2	32
2284	Physicochemical properties and supercapacitor behavior of electrochemically synthesized few layered graphene nanosheets. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3415-3428.	1.2	24

#	ARTICLE	IF	CITATIONS
2285	Progress in modified carbon support materials for Pt and Pt-alloy cathode catalysts in polymer electrolyte membrane fuel cells. <i>Progress in Materials Science</i> , 2016, 82, 445-498.	16.0	160
2286	Association and Diffusion of Li ⁺ in Carboxymethylcellulose Solutions for Environmentally Friendly Li-ion Batteries. <i>ChemSusChem</i> , 2016, 9, 1804-1813.	3.6	6
2287	LiTi ₂ (PO ₄) ₃ /C Anode Material with a Spindle-Like Morphology for Batteries with High Rate Capability and Improved Cycle Life. <i>ChemElectroChem</i> , 2016, 3, 1157-1169.	1.7	19
2288	Flexible SnO ₂ /N-Doped Carbon Nanofiber Films as Integrated Electrodes for Lithium-Ion Batteries with Superior Rate Capacity and Long Cycle Life. <i>Small</i> , 2016, 12, 853-859.	5.2	292
2289	Graphene-Wrapped Graphitic Carbon Hollow Spheres: Bioinspired Synthesis and Applications in Batteries and Supercapacitors. <i>ChemNanoMat</i> , 2016, 2, 540-546.	1.5	28
2290	Phosphorous-Nitrogen-Codoped Carbon Materials Derived from Metal-Organic Frameworks as Efficient Electrocatalysts for Oxygen Reduction Reactions. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2100-2105.	1.0	70
2291	Enhanced Energy Density in Core-Shell Ferroelectric Ceramics: Modeling and Practical Conclusions. <i>Journal of the American Ceramic Society</i> , 2016, 99, 930-937.	1.9	28
2292	Flexible Integrated Electrical Cables Based on Biocomposites for Synchronous Energy Transmission and Storage. <i>Advanced Functional Materials</i> , 2016, 26, 3472-3479.	7.8	72
2293	Nanoarchitected Array Electrodes for Rechargeable Lithium- and Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1502514.	10.2	169
2294	A review of the development of full cell lithium-ion batteries: The impact of nanostructured anode materials. <i>Nano Research</i> , 2016, 9, 2823-2851.	5.8	198
2295	Stable Deep Doping of Vapor-Phase Polymerized Poly(3,4-ethylenedioxythiophene)/Ionic Liquid Supercapacitors. <i>ChemSusChem</i> , 2016, 9, 2112-2121.	3.6	30
2296	Toward Ultrahigh-Capacity V ₂ O ₅ Lithium-Ion Battery Cathodes via One-Pot Synthetic Route from Precursors to Electrode Sheets. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600173.	1.9	16
2297	Correlation of the average hopping length to the ion conductivity and ion diffusivity obtained from the space charge polarization in solid polymer electrolytes. <i>RSC Advances</i> , 2016, 6, 65434-65442.	1.7	39
2298	Anodes for Carbon-Fueled Solid Oxide Fuel Cells. <i>ChemElectroChem</i> , 2016, 3, 193-203.	1.7	34
2299	Carbon Nanomaterials in Different Dimensions for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1600278.	10.2	219
2300	Bimetallic PtRu Nanoparticles Supported on Functionalized Multiwall Carbon Nanotubes as High Performance Electrocatalyst for Direct Methanol Fuel Cells. <i>Nano</i> , 2016, 11, 1650022.	0.5	7
2301	Tungsten carbide-reduced graphene oxide intercalation compound as co-catalyst for methanol oxidation. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1851-1859.	6.9	19
2302	Molecular Insights into the Complex Relationship between Capacitance and Pore Morphology in Nanoporous Carbon-based Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34659-34667.	4.0	19

#	ARTICLE	IF	CITATIONS
2303	Low-cost superior solid-state symmetric supercapacitors based on hematite nanocrystals. <i>Nanotechnology</i> , 2016, 27, 505404.	1.3	13
2304	Parameter optimization for high speed remote laser cutting of electrodes for lithium-ion batteries. <i>Journal of Laser Applications</i> , 2016, 28, .	0.8	26
2305	Hybrid energy storage system comprising of battery and ultra-capacitor for smoothing of oscillating wave energy. , 2016, , .		14
2307	Water adsorption on the LaMnO ₃ surface. <i>Journal of Chemical Physics</i> , 2016, 144, 064701.	1.2	5
2308	Three dimensional simulation of high speed remote laser cutting of cathode for lithium-ion batteries. <i>Journal of Laser Applications</i> , 2016, 28, .	0.8	18
2309	Synthesis, Characterization and Electrochemical Study of Hydroxy-Functionalized Graphene/MnO ₂ Nanocomposite. <i>Materials Today: Proceedings</i> , 2016, 3, 3872-3877.	0.9	2
2310	Copper Pulse-Reverse Current Electrodeposition to Fill Blind Vias for 3-D TSV Integration. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016, 6, 1899-1904.	1.4	12
2311	Density functional study on the mechanism for the highly active palladium monolayer supported on titanium carbide for the oxygen reduction reaction. <i>Journal of Chemical Physics</i> , 2016, 144, 204703.	1.2	18
2312	Boron doped graphene wrapped silver nanowires as an efficient electrocatalyst for molecular oxygen reduction. <i>Scientific Reports</i> , 2016, 6, 37731.	1.6	21
2313	Nickel oxide aerogel for high performance supercapacitor electrodes. <i>RSC Advances</i> , 2016, 6, 112620-112624.	1.7	34
2314	An optimization of hybrid capacitor with respect to mass of electrode material. , 2016, , .		4
2315	Biaxially strained PtPb/Pt core/shell nanoplate boosts oxygen reduction catalysis. <i>Science</i> , 2016, 354, 1410-1414.	6.0	1,262
2316	Batteries: Converting to long stability. <i>Nature Energy</i> , 2016, 1, .	19.8	15
2317	Nanoporous copper: fabrication techniques and advanced electrochemical applications. <i>Corrosion Reviews</i> , 2016, 34, 249-276.	1.0	3
2318	Superior electric storage on an amorphous perfluorinated polymer surface. <i>Scientific Reports</i> , 2016, 6, 22012.	1.6	12
2319	Statistical field theory description of inhomogeneous polarizable soft matter. <i>Journal of Chemical Physics</i> , 2016, 145, 154104.	1.2	53
2320	High-operating-voltage all-solid-state symmetrical supercapacitors based on poly(3,4-ethylenedioxythiophene)/poly(styrenesulfonate) films treated by organic solvents. <i>Electrochimica Acta</i> , 2016, 222, 1895-1902.	2.6	26
2321	Simulations of Coulomb systems with slab geometry using an efficient 3D Ewald summation method. <i>Journal of Chemical Physics</i> , 2016, 144, 144103.	1.2	44

#	ARTICLE	IF	CITATIONS
2322	Supercapacitor based on electropolymerized polythiophene and multiwalled carbon nanotubes composites. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012166.	0.3	11
2323	Facile synthesis of NiCo ₂ O ₄ nanosphere-carbon nanotubes hybrid as an efficient bifunctional electrocatalyst for rechargeable Zn-air batteries. International Journal of Hydrogen Energy, 2016, 41, 9211-9218.	3.8	71
2324	High electrochemical performance of RuO ₂ -Fe ₂ O ₃ nanoparticles embedded ordered mesoporous carbon as a supercapacitor electrode material. Energy, 2016, 106, 103-111.	4.5	70
2325	Holey graphene/polypyrrole nanoparticle hybrid aerogels with three-dimensional hierarchical porous structure for high performance supercapacitor. Journal of Power Sources, 2016, 317, 10-18.	4.0	87
2326	Highly purified CNTs: an exceedingly efficient catalyst support for PEM fuel cell. RSC Advances, 2016, 6, 32258-32271.	1.7	16
2327	Three dimensional manganese oxide on carbon nanotube hydrogels for asymmetric supercapacitors. RSC Advances, 2016, 6, 36954-36960.	1.7	27
2328	A solution-based procedure for synthesis of nitrogen doped graphene as an efficient electrocatalyst for oxygen reduction reactions in acidic and alkaline electrolytes. Applied Catalysis B: Environmental, 2016, 192, 26-34.	10.8	103
2329	Advanced catalyst supports for PEM fuel cell cathodes. Nano Energy, 2016, 29, 314-322.	8.2	146
2330	Flexible-wire shaped all-solid-state supercapacitors based on facile electropolymerization of polythiophene with ultra-high energy density. Journal of Materials Chemistry A, 2016, 4, 7406-7415.	5.2	81
2331	The design and synthesis of porous NiCo ₂ O ₄ ellipsoids supported by flexile carbon nanotubes with enhanced lithium-storage properties for lithium-ion batteries. RSC Advances, 2016, 6, 31925-31933.	1.7	15
2332	Free-Standing 3D Hierarchical Carbon Foam-Supported PtCo Nanowires with Pt Skin as Advanced Electrocatalysts. Electrochimica Acta, 2016, 199, 218-226.	2.6	31
2333	Mesoporous Ni Co based nanowire arrays supported on three-dimensional N-doped carbon foams as non-noble catalysts for efficient oxygen reduction reaction. Microporous and Mesoporous Materials, 2016, 231, 128-137.	2.2	20
2334	A dual mesopore C-aerogel electrode for a high energy density supercapacitor. Current Applied Physics, 2016, 16, 658-664.	1.1	16
2335	Preparation of carbon nanomaterials using two-group arc discharge plasma. Chemical Engineering Journal, 2016, 303, 217-230.	6.6	27
2336	Rapid microwave-assisted synthesis of nitrogen-functionalized hollow carbon spheres with high monodispersity. Carbon, 2016, 107, 11-19.	5.4	40
2337	Vertically-Aligned Carbon Nanotubes for Electrochemical Energy Conversion and Storage. Nanoscience and Technology, 2016, , 253-270.	1.5	4
2338	Radiation-grafted materials for energy conversion and energy storage applications. Progress in Polymer Science, 2016, 63, 1-41.	11.8	64
2339	Flower-like Ni and N codoped hierarchical porous carbon microspheres with enhanced performance for fuel cell storage. Applied Energy, 2016, 175, 421-428.	5.1	23

#	ARTICLE	IF	CITATIONS
2340	Oxide-coated silicon nanowire array capacitor electrodes in room temperature ionic liquid. <i>Electrochimica Acta</i> , 2016, 210, 32-37.	2.6	13
2341	Radiation Grafted Ion-Conducting Membranes: The Influence of Variations in Base Film Nanostructure. <i>Macromolecules</i> , 2016, 49, 4253-4264.	2.2	32
2342	Highly stable hollow bifunctional cobalt sulfides for flexible supercapacitors and hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9014-9018.	5.2	85
2343	Highly electrocatalytic activity and excellent methanol tolerance of hexagonal spinel-type Mn ₂ AlO ₄ nanosheets towards oxygen reduction reaction: Experiment and density functional theory calculation. <i>Nano Energy</i> , 2016, 23, 105-113.	8.2	26
2344	Conductivity of carbonate- and perfluoropolyether-based electrolytes in porous separators. <i>Journal of Power Sources</i> , 2016, 323, 158-165.	4.0	24
2345	Heptazine-based graphitic carbon nitride as an effective hydrogen purification membrane. <i>RSC Advances</i> , 2016, 6, 52377-52383.	1.7	76
2346	On Battery Recovery Effect in Wireless Sensor Nodes. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2016, 21, 1-28.	1.9	22
2347	Reversible heat of electric double-layer capacitors during galvanostatic charging and discharging cycles. <i>Thermochimica Acta</i> , 2016, 636, 1-10.	1.2	25
2348	Graphdiyne applied for lithium-ion capacitors displaying high power and energy densities. <i>Nano Energy</i> , 2016, 22, 615-622.	8.2	190
2349	Energy sovereignty in Italian inner areas: Off-grid renewable solutions for isolated systems and rural buildings. <i>Renewable Energy</i> , 2016, 93, 14-26.	4.3	30
2350	Synthesis of N-Doped Hollow-Structured Mesoporous Carbon Nanospheres for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7194-7204.	4.0	190
2351	Hierarchical NiO@In ₂ O ₃ microflower (3D)/ nanorod (1D) hetero-architecture as a supercapattery electrode with excellent cyclic stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4820-4830.	5.2	102
2352	Effects of Fe ²⁺ ion doping on LiMnPO ₄ nanomaterial for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 27164-27169.	1.7	32
2353	Graphene and its nanocomposites used as an active materials for supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1509-1526.	1.2	23
2354	Polyaniline-coated partially unzipped vapor-grown carbon fibers/sulfur microsphere composites for Li-S cathodes. <i>Journal of Electroanalytical Chemistry</i> , 2016, 761, 62-67.	1.9	8
2355	Nitrogen-doped carbon nanosheets for high-performance liquid as well as solid state supercapacitor cells. <i>RSC Advances</i> , 2016, 6, 35014-35023.	1.7	17
2356	Mixing transition-metal phosphates Li ₃ V ₂ Fe(PO ₄) ₃ (0% α): the synthesis, structure and electrochemical properties. <i>Electrochimica Acta</i> , 2016, 196, 517-526.	2.6	14
2357	First-Principles Study on Nitrobenzene-Doped Graphene as a Metal-Free Electrocatalyst for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8804-8812.	1.5	42

#	ARTICLE	IF	CITATIONS
2358	Sodium chloride-assisted green synthesis of a 3D Fe@N-C hybrid as a highly active electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7781-7787.	5.2	88
2359	Quantitative Analysis of Time-Domain Supported Electrochemical Impedance Spectroscopy Data of Li-Ion Batteries: Reliable Activation Energy Determination at Low Frequencies. <i>Journal of the Electrochemical Society</i> , 2016, 163, H521-H527.	1.3	28
2360	Fabrication of ultra-high energy and power asymmetric supercapacitors based on hybrid 2D MoS ₂ /graphene oxide composite electrodes: a binder-free approach. <i>RSC Advances</i> , 2016, 6, 43261-43271.	1.7	41
2361	Three-dimensional hierarchical interwoven nitrogen-doped carbon nanotubes/CoxNi1-x-layered double hydroxides ultrathin nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2016, 203, 21-29.	2.6	63
2362	Enhanced electrochemical supercapacitance of binder-free nanoporous ternary metal oxides/metal electrode. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 18-24.	5.0	22
2363	Single-crystal $\text{I}^2\text{-NiS}$ nanorod arrays with a hollow-structured Ni ₃ S ₂ framework for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7700-7709.	5.2	168
2364	Understanding the chemisorption-based activation mechanism of the oxygen reduction reaction on nitrogen-doped graphitic materials. <i>Electrochimica Acta</i> , 2016, 204, 245-254.	2.6	28
2365	Facile hydrothermal synthesis of one-dimensional nanostructured $\text{I}^{\pm}\text{-MnO}_2$ for supercapacitors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 41-46.	1.3	14
2366	Sustainable AC/AC hybrid electrochemical capacitors in aqueous electrolyte approaching the performance of organic systems. <i>Journal of Power Sources</i> , 2016, 326, 652-659.	4.0	48
2367	Beaded manganese oxide (Mn ₂ O ₃) nanofibers: preparation and application for capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7883-7891.	5.2	59
2368	NiCo ₂ O ₄ @MnMoO ₄ core-shell flowers for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8249-8254.	5.2	105
2369	Materials chemistry toward electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7522-7537.	5.2	140
2370	MOF-derived Ni _x Co _{1-x} (OH) ₂ composite microspheres for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 49478-49486.	1.7	101
2371	Nanostructured electrode materials for lithium-ion and sodium-ion batteries via electrospinning. <i>Science China Materials</i> , 2016, 59, 287-321.	3.5	124
2372	Supercapacitors utilizing electrodes derived from polyacrylonitrile fibers incorporating tetramethylammonium oxalate as a porogen. <i>Carbon</i> , 2016, 106, 20-27.	5.4	38
2373	Redox electrode materials for supercapatteries. <i>Journal of Power Sources</i> , 2016, 326, 604-612.	4.0	185
2374	High oxygen-reduction activity and durability of nitrogen and sulfur dual doped porous carbon microspheres. <i>Dalton Transactions</i> , 2016, 45, 9582-9589.	1.6	7
2375	Magical Allotropes of Carbon: Prospects and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2016, 41, 257-317.	6.8	167

#	ARTICLE	IF	CITATIONS
2376	Synthesis of hierarchical reduced graphene oxide/SnO ₂ /polypyrrole ternary composites with high electrochemical performance. <i>Materials Research Bulletin</i> , 2016, 80, 303-308.	2.7	28
2377	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. <i>Nano Energy</i> , 2016, 26, 276-285.	8.2	135
2378	Effect of nanostructure on the supercapacitor performance of activated carbon xerogels obtained from hydrothermally carbonized glucose-graphene oxide hybrids. <i>Carbon</i> , 2016, 105, 474-483.	5.4	66
2379	Doping sp ² carbon to boost the activity for oxygen reduction in an acidic medium: a theoretical exploration. <i>RSC Advances</i> , 2016, 6, 48498-48503.	1.7	13
2380	Current status and challenges of biohydrogels for applications as supercapacitors and secondary batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8952-8968.	5.2	89
2381	Toward Chemical Accuracy in the Description of Ion-Water Interactions through Many-Body Representations. I. Halide-Water Dimer Potential Energy Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2698-2705.	2.3	81
2382	Facile synthesis of highly active and durable PdM/C (M = Fe, Mn) nanocatalysts for the oxygen reduction reaction in an alkaline medium. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8337-8349.	5.2	51
2383	Flexible Electrode Design: Fabrication of Freestanding Polyaniline-Based Composite Films for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11379-11389.	4.0	78
2384	Fe/IRMOF-3 derived porous carbons as non-precious metal electrocatalysts with high activity and stability towards oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016, 205, 53-61.	2.6	42
2385	N-doped zeolite-templated carbon as a metal-free electrocatalyst for oxygen reduction. <i>RSC Advances</i> , 2016, 6, 43091-43097.	1.7	24
2386	Self-assembled reduced graphene hydrogels by facile chemical reduction using acetaldehyde oxime for electrode materials in supercapacitors. <i>RSC Advances</i> , 2016, 6, 48276-48282.	1.7	7
2387	Ultrathin porous NiO nanoflake arrays on nickel foam as an advanced electrode for high performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9113-9123.	5.2	120
2388	Effect of polyethylene glycol on sulfonated polyether imide (SPEI) for fuel cell applications. <i>Polymer Science - Series B</i> , 2016, 58, 205-213.	0.3	1
2389	Composite of Li-Rich Mn, Ni and Fe Oxides as Positive Electrode Materials for Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1493-A1502.	1.3	14
2390	Metallic back-contact interface design in photoelectrochemical devices. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8989-8996.	2.7	7
2391	Electrochemical capacitance performance of Fe-doped Co ₃ O ₄ /graphene nanocomposite: investigation on the effect of iron. <i>Electrochimica Acta</i> , 2016, 215, 473-482.	2.6	36
2392	Tuning graphene for energy and environmental applications: Oxygen reduction reaction and greenhouse gas mitigation. <i>Journal of Power Sources</i> , 2016, 328, 472-481.	4.0	16
2393	Intercalation of Glucose in NiMn-Layered Double Hydroxide Nanosheets: an Effective Path Way towards Battery-type Electrodes with Enhanced Performance. <i>Electrochimica Acta</i> , 2016, 216, 35-43.	2.6	98

#	ARTICLE	IF	CITATIONS
2394	The evolution of hierarchical porosity in self-templated nitrogen-doped carbons and its effect on oxygen reduction electrocatalysis. <i>RSC Advances</i> , 2016, 6, 80398-80407.	1.7	46
2395	In Situ Growth of Co ₃ O ₄ Nanoparticles on Interconnected Nitrogen-Doped Graphene Nanoribbons as Efficient Oxygen Reduction Reaction Catalyst. <i>ChemNanoMat</i> , 2016, 2, 972-979.	1.5	10
2396	Room-temperature synthesis of Fe ₃ O ₄ /Fe-carbon nanocomposites with Fe-carbon double conductive network as supercapacitor. <i>Electrochimica Acta</i> , 2016, 215, 483-491.	2.6	56
2397	High electrochemical performance of hybrid cobalt oxyhydroxide/nickel foam graphene. <i>Journal of Colloid and Interface Science</i> , 2016, 484, 77-85.	5.0	25
2398	Graft-type polymer electrolyte membranes based on poly(ether ether ketone)/nanosilica hybrid films for fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18621-18630.	3.8	16
2399	A chemically modified graphene oxide wrapped porous hematite nano-architecture as a high rate lithium-ion battery anode material. <i>RSC Advances</i> , 2016, 6, 82698-82706.	1.7	12
2400	Facile and Scalable Ultra-fine Cobalt Oxide/Reduced Graphene Oxide Nanocomposites for High Energy Asymmetric Supercapacitors. <i>ChemistrySelect</i> , 2016, 1, 3455-3467.	0.7	58
2401	Mechanism of methanol oxidation on graphene-supported Pt: Defect is better or not?. <i>Electrochimica Acta</i> , 2016, 216, 140-146.	2.6	14
2402	Layered Transition Metal Oxynitride Co ₃ Mo ₂ O ₆ N ₆ /C Catalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29536-29542.	4.0	12
2403	Shaping electrocatalysis through tailored nanomaterials. <i>Nano Today</i> , 2016, 11, 587-600.	6.2	133
2404	Stretchable and transparent supercapacitors based on aerosol synthesized single-walled carbon nanotube films. <i>RSC Advances</i> , 2016, 6, 93915-93921.	1.7	37
2405	Reducing Li-diffusion pathways via adhesion of ultra-small nanocrystals of LiFePO ₄ on few-layer nanoporous holey-graphene sheets for achieving high rate capability. <i>RSC Advances</i> , 2016, 6, 89328-89337.	1.7	12
2406	Fe ₃ C nanoparticle decorated Fe/N doped graphene for efficient oxygen reduction reaction electrocatalysis. <i>Journal of Power Sources</i> , 2016, 332, 305-311.	4.0	104
2407	Organic-inorganic hybrid solid electrolytes for solid-state lithium cells operating at room temperature. <i>Electrochimica Acta</i> , 2016, 218, 271-277.	2.6	77
2408	A binder free synthesis of 1D PANI and 2D MoS ₂ nanostructured hybrid composite electrodes by the electrophoretic deposition (EPD) method for supercapacitor application. <i>RSC Advances</i> , 2016, 6, 101592-101601.	1.7	57
2409	Buffering agents-assisted synthesis of nitrogen-doped graphene with oxygen-rich functional groups for enhanced electrochemical performance. <i>Journal of Power Sources</i> , 2016, 333, 125-133.	4.0	31
2410	High-performance MgCo ₂ O ₄ nanocone arrays grown on three-dimensional nickel foams: Preparation and application as binder-free electrode for pseudo-supercapacitor. <i>Journal of Power Sources</i> , 2016, 333, 118-124.	4.0	94
2411	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. <i>Nanoscale</i> , 2016, 8, 18250-18269.	2.8	79

#	ARTICLE	IF	CITATIONS
2413	One Pot Solvothermal Synthesis of Sandwich-like Mg Al Layered Double Hydroxide anchored Reduced Graphene Oxide: An excellent electrode material for Supercapacitor. <i>Electrochimica Acta</i> , 2016, 219, 214-226.	2.6	40
2414	Cobalt phosphide nanowall array as an efficient 3D catalyst electrode for methanol electro-oxidation. <i>Nanotechnology</i> , 2016, 27, 44LT02.	1.3	17
2415	Porous N-Doped Carbon Prepared from Triazine-Based Polypyrrole Network: A Highly Efficient Metal-Free Catalyst for Oxygen Reduction Reaction in Alkaline Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28615-28623.	4.0	47
2416	Proportion of composition in a composite does matter for advanced supercapacitor behavior. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17440-17454.	5.2	26
2417	The influences of operating conditions and design configurations on the performance of symmetric electrochemical capacitors. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28626-28647.	1.3	10
2418	Microstructural properties and local atomic structures of cobalt oxide nanoparticles synthesised by mechanical ball-milling process. <i>Philosophical Magazine</i> , 2016, 96, 3211-3226.	0.7	12
2419	Hydrothermal synthesis of vanadium dioxides/carbon composites and their transformation to surface-uneven V_2O_5 nanoparticles with high electrochemical properties. <i>RSC Advances</i> , 2016, 6, 93741-93752.	1.7	54
2420	Spinel $MnCo_2O_4/N, S$ -doped Carbon Nanotubes as an Efficient Oxygen Reduction Reaction Electrocatalyst. <i>ChemistrySelect</i> , 2016, 1, 2159-2162.	0.7	16
2421	Synthesis of multi-shelled MnO_2 hollow microspheres via an anion-adsorption process of hydrothermal intensification. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1065-1070.	3.0	60
2422	Preparation and performance of novel enhanced electrochemical capacitors based on graphene constructed self-assembled Co_3O_4 microspheres. <i>RSC Advances</i> , 2016, 6, 91904-91909.	1.7	4
2423	Electrocatalyst composed of platinum nanoparticles deposited on doubly polymer-coated carbon nanotubes shows a high CO-tolerance in methanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19182-19190.	3.8	22
2424	Two-dimensional MnO_2 /graphene hybrid nanostructures as anode for lithium ion batteries. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650208.	1.0	4
2425	Promoting oxygen vacancy formation and p-type conductivity in $SrTiO_3$ via alkali metal doping: a first principles study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28951-28959.	1.3	17
2426	A Binder-Free Hybrid of CuO -Microspheres and rGO Nanosheets as an Alternative Material for Next Generation Energy Storage Application. <i>ChemistrySelect</i> , 2016, 1, 2826-2833.	0.7	28
2427	A Facile Route to Bimetal and Nitrogen-Codoped 3D Porous Graphitic Carbon Networks for Efficient Oxygen Reduction. <i>Small</i> , 2016, 12, 4193-4199.	5.2	150
2428	Specific-ion effects in non-aqueous systems. <i>Current Opinion in Colloid and Interface Science</i> , 2016, 23, 82-93.	3.4	60
2429	Nitrogen-doped Multi-walled Carbon Nanotubes- $MnCo_2O_4$ microsphere as electrocatalyst for efficient oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15199-15207.	3.8	56
2430	Batteries: Fundamentals and Materials Aspects. , 2016, , 313-350.		0

#	ARTICLE	IF	CITATIONS
2431	Environmentally Friendly Supercapacitors. , 2016, , 351-492.		7
2432	A dual-electrolyte based air-breathing regenerative microfluidic fuel cell with 1.76 V open-circuit-voltage and 0.74 V water-splitting voltage. Nano Energy, 2016, 27, 619-626.	8.2	52
2433	Three-dimensional TiO ₂ @C nano-network with high porosity as a highly efficient Pt-based catalyst support for methanol electrooxidation. RSC Advances, 2016, 6, 79254-79262.	1.7	10
2434	Strongly coupled polyaniline/graphene hybrids with much enhanced capacitance performance. Journal of Colloid and Interface Science, 2016, 483, 34-40.	5.0	15
2435	Stabilizing nickel sulfide nanoparticles with an ultrathin carbon layer for improved cycling performance in sodium ion batteries. Nano Research, 2016, 9, 3162-3170.	5.8	65
2436	Anion-conducting polysulfone membranes containing hexa-imidazolium functionalized biphenyl units. Journal of Membrane Science, 2016, 520, 425-433.	4.1	25
2437	Two-dimensional inorganic analogues of graphene: transition metal dichalcogenides. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150318.	1.6	62
2438	Synthesis of carbon-encapsulated cobalt sulfide nanoparticles and their electrochemical property. Ionics, 2016, 22, 2239-2243.	1.2	9
2439	Free standing hollow carbon nanofiber mats for supercapacitor electrodes. RSC Advances, 2016, 6, 78528-78537.	1.7	32
2440	Inherent N,O-containing carbon frameworks as electrode materials for high-performance supercapacitors. Nanoscale, 2016, 8, 16323-16331.	2.8	49
2441	Synthesis of TiO ₂ Nanoparticles Loaded Pd/CuO Nanoporous Catalysts and Their Catalytic Performance for Methanol, Ethanol and Formic Acid Electro-Oxidations. Journal of the Electrochemical Society, 2016, 163, E263-E271.	1.3	9
2442	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. Angewandte Chemie - International Edition, 2016, 55, 10667-10671.	7.2	334
2443	Buckypaper templating Ni-Co hydroxide nanosheets as free-standing electrodes for ultrathin and flexible supercapacitors. New Journal of Chemistry, 2016, 40, 8006-8011.	1.4	23
2444	Hydrogen-Bonded Organic Frameworks (HOFs): A New Class of Porous Crystalline Proton-Conducting Materials. Angewandte Chemie, 2016, 128, 10825-10829.	1.6	76
2445	Three-Dimensional Porous Nitrogen doped Graphene Hydrogel for High Energy Density supercapacitors. Electrochimica Acta, 2016, 213, 291-297.	2.6	84
2446	Carbon supported Co ₉ S ₈ hollow spheres assembled from ultrathin nanosheets for high-performance supercapacitors. Materials Letters, 2016, 183, 290-295.	1.3	24
2447	Vanadium based materials as electrode materials for high performance supercapacitors. Journal of Power Sources, 2016, 329, 148-169.	4.0	272
2448	Unraveling transition metal dissolution of Li _{1.04} Ni _{1/3} Co _{1/3} Mn _{1/3} O ₂ (NCM 111) in lithium ion full cells by using the total reflection X-ray fluorescence technique. Journal of Power Sources, 2016, 329, 364-371.	4.0	158

#	ARTICLE	IF	CITATIONS
2449	Highly hierarchical porous structures constructed from NiO nanosheets act as Li ion and O ₂ pathways in long cycle life, rechargeable Li-O ₂ batteries. <i>Chemical Communications</i> , 2016, 52, 11772-11774.	2.2	29
2450	A dual-metal-organic-framework derived electrocatalyst for oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 3092-3096.	15.6	344
2451	Fabrication of interdigitated micro-supercapacitor devices by direct laser writing onto ultra-thin, flexible and free-standing graphite oxide films. <i>RSC Advances</i> , 2016, 6, 84769-84776.	1.7	77
2452	Hydrothermal synthesis of layer-controlled MoS ₂ /graphene composite aerogels for lithium-ion battery anode materials. <i>Applied Surface Science</i> , 2016, 390, 209-215.	3.1	72
2453	Memory and nonlinear transport effects in charging-discharging of a supercapacitor. <i>Technical Physics</i> , 2016, 61, 250-259.	0.2	15
2454	Electrochemical capacitors: mechanism, materials, systems, characterization and applications. <i>Chemical Society Reviews</i> , 2016, 45, 5925-5950.	18.7	2,969
2455	2D materials for renewable energy storage devices: Outlook and challenges. <i>Chemical Communications</i> , 2016, 52, 13528-13542.	2.2	96
2456	Construction of a Hierarchical NiCo ₂ S ₄ @PPy Core-Shell Heterostructure Nanotube Array on Ni Foam for a High-Performance Asymmetric Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24525-24535.	4.0	408
2457	Valorization of coffee bean waste: a coffee bean waste derived multifunctional catalyst for photocatalytic hydrogen production and electrocatalytic oxygen reduction reactions. <i>RSC Advances</i> , 2016, 6, 82103-82111.	1.7	19
2458	Superior Charge Storage and Power Density of a Conducting Polymer-Modified Covalent Organic Framework. <i>ACS Central Science</i> , 2016, 2, 667-673.	5.3	349
2459	Substrate-Assisted Deposition of Metal Oxides on Three-Dimensional Porous Reduced Graphene Oxide Networks as Bifunctional Hybrid Electrocatalysts for the Oxygen Evolution and Oxygen Reduction Reactions. <i>ChemCatChem</i> , 2016, 8, 2808-2816.	1.8	12
2460	High temperature electrical energy storage: advances, challenges, and frontiers. <i>Chemical Society Reviews</i> , 2016, 45, 5848-5887.	18.7	268
2461	Easy synthesis approach of Pt-nanoparticles on polyaniline surface: an efficient electro-catalyst for methanol oxidation reaction. <i>Journal of Power Sources</i> , 2016, 328, 271-279.	4.0	54
2462	Novel Metal Chalcogenide SnSSe as a High-Capacity Anode for Sodium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 8645-8650.	11.1	123
2463	Nanostructured metal phosphide-based materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14915-14931.	5.2	240
2464	A new route of magnetic biochar based polyaniline composites for supercapacitor electrode materials. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 240-257.	2.6	61
2465	Rechargeable lithium-air batteries: a perspective on the development of oxygen electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14050-14068.	5.2	155
2466	Hierarchically porous materials: Synthesis strategies and emerging applications. <i>Frontiers of Chemical Science and Engineering</i> , 2016, 10, 301-347.	2.3	73

#	ARTICLE	IF	CITATIONS
2467	Recent advances in hybrid solar cells based on natural dye extracts from Indian plant pigment as sensitizers. <i>Solar Energy</i> , 2016, 137, 212-224.	2.9	46
2468	Ionic borohydride clusters for the next generation of boron thin-films: Nano-building blocks for electrochemical and refractory materials. <i>Journal of Materials Research</i> , 2016, 31, 2736-2748.	1.2	12
2469	Mesoporous Ni-P@NiCo ₂ O ₄ composite materials for high performance aqueous asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2016, 222, 1169-1175.	2.6	67
2470	Scalable Nanoporous (Pt ₁ Ni ₃) ₃ Al Intermetallic Compounds as Highly Active and Stable Catalysts for Oxygen Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32910-32917.	4.0	29
2471	Synthesis of nickel sulfide as a promising electrode material for pseudocapacitor application. <i>RSC Advances</i> , 2016, 6, 112589-112593.	1.7	30
2472	Sputtered Synthesis of MnO ₂ Nanorods as Binder Free Electrode for High Performance Symmetric Supercapacitors. <i>Electrochimica Acta</i> , 2016, 222, 1761-1769.	2.6	52
2473	Ultrafine N-doped carbon nanoparticles with controllable size to enhance electrocatalytic activity for oxygen reduction reaction. <i>RSC Advances</i> , 2016, 6, 110758-110764.	1.7	10
2474	Asymmetric Supercapacitor Based on Nanostructured Ce-doped NiO (Ce:NiO) as Positive and Reduced Graphene Oxide (rGO) as Negative Electrode. <i>ChemistrySelect</i> , 2016, 1, 3471-3478.	0.7	44
2475	Composition-controlled Synthesis of PtCuNPs Shells on Copper Nanowires as Electrocatalysts. <i>ChemistrySelect</i> , 2016, 1, 4392-4396.	0.7	10
2476	Core-shell Pd@Pt nanoparticles as efficient catalysts for electrooxidation of formic acid. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 1109-1118.	1.5	15
2477	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29308-29315.	1.3	213
2478	Characterization of expanded graphene nanosheet as additional material and improved performances for electric double layer capacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 43, 53-60.	2.9	16
2479	In situ formation of MoS ₂ /C nanocomposite as an anode for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 92259-92266.	1.7	11
2480	Role of Metal-Lithium Oxide Interfaces in the Extra Lithium Capacity of Metal Oxide Lithium-Ion Battery Anode Materials. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2172-A2178.	1.3	22
2481	Spinel CuCo ₂ O ₄ Nanoparticles: Facile One-Step Synthesis, Optical, and Electrochemical properties. <i>Materials Research Express</i> , 2016, 3, 095021.	0.8	61
2482	Quantitative probe of the transition metal redox in battery electrodes through soft x-ray absorption spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 413003.	1.3	90
2483	A fascinating multitasking Cu-MOF/rGO hybrid for high performance supercapacitors and highly sensitive and selective electrochemical nitrite sensors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16432-16445.	5.2	287
2484	Transport of Ions in Salt-in-Polymer Membranes. , 2016, 8, 129-155.		1

#	ARTICLE	IF	CITATIONS
2485	Synthesis of NiCo ₂ S ₄ Nanocages as Pseudocapacitor Electrode Materials. <i>ChemistrySelect</i> , 2016, 1, 4082-4086.	0.7	16
2486	Soft-template-synthesis of hollow CuO/Co ₃ O ₄ composites for pseudo-capacitive electrode: A synergetic effect on electrochemical performance. <i>Journal of Solid State Chemistry</i> , 2016, 244, 75-83.	1.4	14
2487	Microwave-assisted synthesis of functional electrode materials for energy applications. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2915-2928.	1.2	32
2488	An advanced asymmetric supercapacitor based on a binder-free electrode fabricated from ultrathin CoMoO ₄ nano-dandelions. <i>RSC Advances</i> , 2016, 6, 71156-71164.	1.7	40
2489	Transition Metal Carbides and Nitrides in Energy Storage and Conversion. <i>Advanced Science</i> , 2016, 3, 1500286.	5.6	1,001
2490	Review of Local In-Situ Probing Techniques for the Interfaces of Lithium-Ion and Lithium-Oxygen Batteries. <i>Energy Technology</i> , 2016, 4, 1472-1485.	1.8	26
2491	A review of applications of poly(diallyldimethyl ammonium chloride) in polymer membrane fuel cells: From nanoparticles to support materials. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1025-1036.	6.9	14
2492	Electrochemical reduction and capacitance of hybrid titanium dioxides/nanotube arrays and nanograss. <i>Electrochimica Acta</i> , 2016, 210, 367-374.	2.6	24
2493	Review on \pm -Fe ₂ O ₃ based negative electrode for high performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 327, 297-318.	4.0	293
2494	Ni- and Mn-Promoted Mesoporous Co ₃ O ₄ : A Stable Bifunctional Catalyst with Surface-Structure-Dependent Activity for Oxygen Reduction Reaction and Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20802-20813.	4.0	191
2495	Flower-Like Nickel-Cobalt Oxide Decorated Dopamine-Derived Carbon Nanocomposite for High Performance Supercapacitor Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5013-5020.	3.2	90
2496	A Free-standing Graphene-Polypyrrole Hybrid Paper via Electropolymerization with an Enhanced Areal Capacitance. <i>Electrochimica Acta</i> , 2016, 212, 561-571.	2.6	66
2497	Flame synthesis of nitrogen doped carbon for the oxygen reduction reaction and non-enzymatic methyl parathion sensor. <i>RSC Advances</i> , 2016, 6, 71507-71516.	1.7	38
2498	Hybrid Supercapacitors from Framework Materials. <i>CheM</i> , 2016, 1, 21-23.	5.8	1
2499	The Effect of KOH Treatment on the Chemical Structure and Electrocatalytic Activity of Reduced Graphene Oxide Materials. <i>Chemistry - A European Journal</i> , 2016, 22, 11435-11440.	1.7	5
2500	Nanomaterials in Advanced Batteries and Supercapacitors. <i>Nanostructure Science and Technology</i> , 2016, , .	0.1	34
2501	Membrane Separators for Electrochemical Energy Storage Technologies. <i>Nanostructure Science and Technology</i> , 2016, , 417-462.	0.1	1
2502	Hierarchical copper/nickel-based manganese dioxide core-shell nanostructure for supercapacitor electrodes. <i>Electrochimica Acta</i> , 2016, 212, 671-677.	2.6	33

#	ARTICLE	IF	CITATIONS
2503	Electrospun ZnFe ₂ O ₄ -based nanofiber composites with enhanced supercapacitive properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2016, 211, 141-148.	1.7	44
2504	General synthesis of xLi ₂ /sub>MnO ₃ /sub>Â·(1 â~) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 712 Td (x)LiNi_{1/3} microspheres towards enhancing the performance of rechargeable lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12442-12450.	5.2	38
2505	Recent progress in hollow sphere-based electrodes for high-performance supercapacitors. <i>Nanotechnology</i> , 2016, 27, 342001.	1.3	43
2506	Minute-made activated porous carbon from agro-waste for Li-ion battery anode using a low power microwave oven. <i>Electrochimica Acta</i> , 2016, 212, 535-544.	2.6	30
2507	Fabrication of flexible fiber supercapacitor using covalently grafted CoFe ₂ O ₄ /reduced graphene oxide/polyaniline and its electrochemical performances. <i>Electrochimica Acta</i> , 2016, 213, 469-481.	2.6	109
2508	Cobalt and Nitrogen Codoped Graphene with Inserted Carbon Nanospheres as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4131-4136.	3.2	101
2509	Facile one-pot synthesis of a NiMoO ₄ /reduced graphene oxide composite as a pseudocapacitor with superior performance. <i>RSC Advances</i> , 2016, 6, 69627-69633.	1.7	51
2510	Investigation of the durability of a poly-p-phenylenediamine/carbon black composite for the oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1096-1102.	6.9	7
2511	Synthesis and ⁷Li Ion Dynamics in Polyaryleneâ€Ethersulfoneâ€Phenyleneâ€Oxideâ€Based Polymer Electrolytes. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 2584-2594.	1.1	5
2512	Honeyâ€Based P, N and Si Triâ€Doped Graphitic Carbon Electrocatalysts for Oxygen Reduction Reaction in Alkaline Conditions. <i>ChemistrySelect</i> , 2016, 1, 3527-3534.	0.7	3
2513	Metal halide perovskites for energy applications. <i>Nature Energy</i> , 2016, 1, .	19.8	726
2514	Porous carbons produced by the pyrolysis of green onion leaves and their capacitive behavior. <i>New Carbon Materials</i> , 2016, 31, 475-484.	2.9	28
2515	Size and Structural Effect of Crumpled Graphene Balls on the Electrochemical Properties for Supercapacitor Application. <i>Electrochimica Acta</i> , 2016, 222, 58-63.	2.6	30
2516	Nitrogen-doped 3D porous carbons with iron carbide nanoparticles encapsulated in graphitic layers derived from functionalized MOF as an efficient noble-metal-free oxygen reduction electrocatalysts in both acidic and alkaline media. <i>RSC Advances</i> , 2016, 6, 110820-110830.	1.7	29
2517	Additive-free synthesis of Li₄Ti₅O₁₂ nanowire arrays on freestanding ultrathin graphite as a hybrid anode for flexible lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 19197-19206.	5.2	26
2518	Assembly of coupled redox fuel cells using copper as electron acceptors to generate power and its in-situ retrieval. <i>Scientific Reports</i> , 2016, 6, 21059.	1.6	9
2519	Real time optimal control of supercapacitor operation for frequency response. , 2016, , .		5
2520	Nanoporous (Pt_{1â~x}Fe_x)₃Al intermetallic compounds for greatly enhanced oxygen electroreduction catalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18878-18884.	5.2	19

#	ARTICLE	IF	CITATIONS
2521	Mixed 1Tâ€“2H Phase MoS ₂ /Reduced Graphene Oxide as Active Electrode for Enhanced Supercapacitive Performance. ACS Applied Materials & Interfaces, 2016, 8, 32842-32852.	4.0	132
2522	High Performance Palladium Supported on Nanoporous Carbon under Anhydrous Condition. Scientific Reports, 2016, 6, 36521.	1.6	14
2523	Synthesis of star-like MnO ₂ -CeO ₂ /CNT composite as an efficient cathode catalyst applied in lithium-oxygen batteries. Electrochimica Acta, 2016, 222, 821-829.	2.6	23
2524	Facile hydrothermal reduction synthesis of porous Co ₃ O ₄ nanosheets@RGO nanocomposite and applied as a supercapacitor electrode with enhanced specific capacitance and excellent cycle stability. Electrochimica Acta, 2016, 222, 976-982.	2.6	40
2525	Microbial synthesis of highly dispersed PdAu alloy for enhanced electrocatalysis. Science Advances, 2016, 2, e1600858.	4.7	85
2526	Cost-Effective Fabrication of Biomorphic Mesoporous Ni-NiO Microtube for Pseudocapacitors. Nano, 2016, 11, 1650119.	0.5	1
2527	Advanced Materials for Supercapacitors. , 2016, , 99-128.		0
2528	KOHâ€“Activated Porous Carbons Derived from Chestnut Shell with Superior Capacitive Performance. Chinese Journal of Chemistry, 2016, 34, 1093-1102.	2.6	22
2529	Enhanced electrochemical performance of polypyrrole coated MoS ₂ nanocomposites as electrode material for supercapacitor application. Journal of Electroanalytical Chemistry, 2016, 782, 278-287.	1.9	69
2530	From Chromonic Self-Assembly to Hollow Carbon Nanofibers: Efficient Materials in Supercapacitor and Vapor-Sensing Applications. ACS Applied Materials & Interfaces, 2016, 8, 31231-31238.	4.0	43
2531	Electrochemically synthesized sulfur-doped graphene as a superior metal-free cathodic catalyst for oxygen reduction reaction in microbial fuel cells. RSC Advances, 2016, 6, 103446-103454.	1.7	31
2532	ETHICAL: A modular supercapacitor-based power amplifier for high-current arbitrary generation. , 2016, , .		2
2533	Preparation of Nickel Cobalt Sulfide Hollow Nanocolloids with Enhanced Electrochemical Property for Supercapacitors Application. Scientific Reports, 2016, 6, 25151.	1.6	47
2534	High Performance and Flexible Supercapacitors based on Carbonized Bamboo Fibers for Wide Temperature Applications. Scientific Reports, 2016, 6, 31704.	1.6	185
2535	Flower-like ZnO@MnCo ₂ O ₄ nanosheet structures on nickel foam as novel electrode material for high-performance supercapacitors. RSC Advances, 2016, 6, 102961-102967.	1.7	47
2536	Homogenous Electrocatalytic Oxygen Reduction Rates Correlate with Reaction Overpotential in Acidic Organic Solutions. ACS Central Science, 2016, 2, 850-856.	5.3	150
2537	NiWO ₄ /Ni/Carbon Composite Fibres for Supercapacitors with Excellent Cycling Performance. Electrochimica Acta, 2016, 222, 446-454.	2.6	35
2538	Polypyrrole/cellulose nanofiber aerogel as a supercapacitor electrode material. RSC Advances, 2016, 6, 109143-109149.	1.7	27

#	ARTICLE	IF	CITATIONS
2539	In Situ SXS and XAFS Measurements of Electrochemical Interface. , 2016, , 367-449.		3
2540	Surface engineering of hierarchical platinum-cobalt nanowires for efficient electrocatalysis. Nature Communications, 2016, 7, 11850.	5.8	607
2541	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	5.8	568
2542	A high-capacity and long-life aqueous rechargeable zinc battery using a metal oxide intercalation cathode. Nature Energy, 2016, 1, .	19.8	2,167
2543	High-power all-solid-state batteries using sulfide superionic conductors. Nature Energy, 2016, 1, .	19.8	2,421
2544	3D Polyaniline Architecture by Concurrent Inorganic and Organic Acid Doping for Superior and Robust High Rate Supercapacitor Performance. Scientific Reports, 2016, 6, 21002.	1.6	94
2545	Carbon Redox-Polymer-Gel Hybrid Supercapacitors. Scientific Reports, 2016, 6, 22194.	1.6	49
2546	Enhanced Capacitance of Hybrid Layered Graphene/Nickel Nanocomposite for Supercapacitors. Scientific Reports, 2016, 6, 32082.	1.6	44
2547	Chemically Integrated Inorganicâ€Graphene Twoâ€Dimensional Hybrid Materials for Flexible Energy Storage Devices. Small, 2016, 12, 6183-6199.	5.2	126
2548	Fe ₂ O ₃ /Reduced Graphene Oxide/Fe ₃ O ₄ Composite in Situ Grown on Fe Foil for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 30133-30142.	4.0	136
2549	Nb ₂ O ₅ quantum dots embedded in MOF derived nitrogen-doped porous carbon for advanced hybrid supercapacitor applications. Journal of Materials Chemistry A, 2016, 4, 17838-17847.	5.2	107
2550	PolyHIPE Derived Freestanding 3D Carbon Foam for Cobalt Hydroxide Nanorods Based High Performance Supercapacitor. Scientific Reports, 2016, 6, 35490.	1.6	67
2551	Highly active Coâ€Moâ€C/NRGO composite as an efficient oxygen electrode for waterâ€oxygen redox cycle. Journal of Materials Chemistry A, 2016, 4, 18100-18106.	5.2	40
2552	Transition metal sulfides grown on graphene fibers for wearable asymmetric supercapacitors with high volumetric capacitance and high energy density. Scientific Reports, 2016, 6, 26890.	1.6	84
2553	Hierarchically nanostructured MnO ₂ electrodes for pseudocapacitor application. RSC Advances, 2016, 6, 102814-102820.	1.7	18
2554	Chapter 3 Glass-Based Proton Exchange Membranes for Fuel Cell Applications. , 2016, , 121-196.		0
2555	Incorporating conjugated carbonyl compounds into carbon nanomaterials as electrode materials for electrochemical energy storage. Physical Chemistry Chemical Physics, 2016, 18, 31361-31377.	1.3	29
2556	Facile strategy of NCA cation mixing regulation and its effect on electrochemical performance. RSC Advances, 2016, 6, 108558-108565.	1.7	28

#	ARTICLE	IF	CITATIONS
2557	Learning from Overpotentials in Lithium Ion Batteries: A Case Study on the $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ (NCM) Cathode. Journal of the Electrochemical Society, 2016, 163, A2943-A2950.	1.3	109
2558	Advanced Materials and Designs for Hydraulic, Earth, and Aerospace Structures. , 2016, , .		0
2559	A Simple, Low-cost, and Robust System to Measure the Volume of Hydrogen Evolved by Chemical Reactions with Aqueous Solutions. Journal of Visualized Experiments, 2016, , .	0.2	9
2560	Dissociative adsorption of H_2O on LiCoO_2 (001) surfaces: Co reduction induced by electron transfer from intrinsic defects. Journal of Chemical Physics, 2016, 144, 184706.	1.2	30
2561	Efficient automatic screening for Li ion conductive inorganic oxides with bond valence pathway models and percolation algorithm. Japanese Journal of Applied Physics, 2016, 55, 01AH05.	0.8	17
2562	Advances in Wearable Fiber-Shaped Lithium-Ion Batteries. Advanced Materials, 2016, 28, 4524-4531.	11.1	201
2563	Highly Efficient Ethanol Electrooxidation on a Synergistically Active Catalyst Based on a Pd-Loaded Composite of Hydroxyapatite. ChemElectroChem, 2016, 3, 558-564.	1.7	7
2564	Remarkable Improvements in Volumetric Energy and Power of 3D MnO_2 Microsupercapacitors by Tuning Crystallographic Structures. Advanced Functional Materials, 2016, 26, 1830-1839.	7.8	112
2565	Two-Dimensional Materials for Beyond-Lithium-Ion Batteries. Advanced Energy Materials, 2016, 6, 1600025.	10.2	533
2566	An Extension to the Analytical Evaluation of the Oxygen Reduction Reaction Based On the Electrokinetics On a Rotating Ring-Disk Electrode. ChemElectroChem, 2016, 3, 622-628.	1.7	19
2567	In-Situ hydrothermal synthesis of a MoS_2 nanosheet electrode for electrochemical energy storage applications. Journal of the Korean Physical Society, 2016, 68, 1341-1346.	0.3	7
2568	Direct growth of Fe_3O_4 - MoO_2 hybrid nanofilm anode with enhanced electrochemical performance in neutral aqueous electrolyte. Progress in Natural Science: Materials International, 2016, 26, 258-263.	1.8	16
2569	Facile Self-Cross-Linking Synthesis of 3D Nanoporous Co_3O_4 /Carbon Hybrid Electrode Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 16035-16044.	4.0	64
2570	An incremental double-layer capacitance of a planar nano gap and its application in cardiac-troponin T detection. Biosensors and Bioelectronics, 2016, 79, 636-643.	5.3	23
2571	Capacitive characteristics of nanocomposites of conducting polypyrrole and functionalized carbon nanotubes: pulse current synthesis and tailoring. Journal of Solid State Electrochemistry, 2016, 20, 1413-1420.	1.2	3
2572	Ultra-endurance flexible all-solid-state asymmetric supercapacitors based on three-dimensionally coated MnO_x nanosheets on nanoporous current collectors. Nano Energy, 2016, 26, 610-619.	8.2	103
2573	Biomass-derived carbon: synthesis and applications in energy storage and conversion. Green Chemistry, 2016, 18, 4824-4854.	4.6	735
2574	Ultra-uniform CuO/Cu in nitrogen-doped carbon nanofibers as a stable anode for Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 10585-10592.	5.2	59

#	ARTICLE	IF	CITATIONS
2575	Quinone and its derivatives for energy harvesting and storage materials. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11179-11202.	5.2	211
2576	A primary battery-on-a-chip using monolayer graphene. <i>Nanotechnology</i> , 2016, 27, 29LT01.	1.3	14
2577	Energy Storage Technologies for Solar Photovoltaic Systems. <i>Green Energy and Technology</i> , 2016, , 231-251.	0.4	2
2578	Facile Route to NiO Nanostructured Electrode Grown by Oblique Angle Deposition Technique for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17220-17225.	4.0	60
2579	First-principles investigations of vanadium disulfide for lithium and sodium ion battery applications. <i>RSC Advances</i> , 2016, 6, 54874-54879.	1.7	55
2580	Synthesis and extensive characterisation of phosphorus doped graphite. <i>RSC Advances</i> , 2016, 6, 62140-62145.	1.7	4
2581	Coordination polymer template synthesis of hierarchical MnCo ₂ O _{4.5} and MnNi ₆ O ₈ nanoparticles for electrochemical capacitors electrode. <i>Solid State Sciences</i> , 2016, 58, 70-79.	1.5	26
2582	Disturbance rejection of battery/ultracapacitor hybrid energy sources. <i>Control Engineering Practice</i> , 2016, 54, 166-175.	3.2	14
2583	The reaction current distribution in battery electrode materials revealed by XPS-based state-of-charge mapping. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19093-19102.	1.3	11
2584	Ion dynamics in methylcelluloseâ€“LiBOB solid polymer electrolytes. <i>Ionics</i> , 2016, 22, 2113-2121.	1.2	14
2585	Facile synthesis of Co ₃ O ₄ with different morphologies loaded on amine modified graphene and their application in supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016, 685, 507-517.	2.8	37
2586	NiFe ₂ O ₄ â€“CNT composite: an efficient electrocatalyst for oxygen evolution reactions in Liâ€“O ₂ batteries guided by computations. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9390-9393.	5.2	52
2587	Synthesis of hybrid Ni-Co oxide @ 3D carbon skeleton derived from pollen grains for advanced supercapacitors. <i>Electrochimica Acta</i> , 2016, 210, 695-703.	2.6	8
2588	Graphene based architectures for electrochemical capacitors. <i>Energy Storage Materials</i> , 2016, 5, 8-32.	9.5	71
2589	Pd-on-NiCu nanosheets with enhanced electro-catalytic performances for methanol oxidation. <i>Journal of Alloys and Compounds</i> , 2016, 685, 42-49.	2.8	25
2590	Design, synthesis, and energy-related applications of metal sulfides. <i>Materials Horizons</i> , 2016, 3, 402-421.	6.4	243
2591	Synthesis of nanostructured Ni(OH) ₂ by electrochemical dissolutionâ€“precipitation and its application as a water oxidation catalyst. <i>Nanotechnology</i> , 2016, 27, 275401.	1.3	19
2592	Ultra-small Fe ₂ N nanocrystals embedded into mesoporous nitrogen-doped graphitic carbon spheres as a highly active, stable, and methanol-tolerant electrocatalyst for the oxygen reduction reaction. <i>Nano Energy</i> , 2016, 24, 121-129.	8.2	131

#	ARTICLE	IF	CITATIONS
2593	Lithium-Ion Cells Assembled with Flexible Hybrid Membrane Containing Li ⁺ -Conducting Lithium Aluminum Germanium Phosphate. <i>Journal of the Electrochemical Society</i> , 2016, 163, A974-A980.	1.3	19
2594	A reactive-template strategy for high yield synthesis of N-doped graphene and its modification by introduction of cobalt species for significantly enhanced oxygen reduction reaction. <i>Electrochimica Acta</i> , 2016, 210, 328-336.	2.6	32
2595	Phase-structural transformations in a metal hydride battery anode La _{1.5} Nd _{0.5} MgNi ₉ alloy and its electrochemical performance. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9954-9967.	3.8	35
2596	Preparation and supercapacitor performance of assembled graphene fiber and foam. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 212-220.	1.8	29
2597	The sulfonated poly(phenylene) membranes containing multi-phenylrings prepared by nickel catalyst. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 131-136.	2.9	3
2598	Facile synthesis of amorphous aluminum vanadate hierarchical microspheres for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 791-797.	3.0	88
2599	Unconventional supercapacitors from nanocarbon-based electrode materials to device configurations. <i>Chemical Society Reviews</i> , 2016, 45, 4340-4363.	18.7	480
2600	The Carbon-Water Interface: Modeling Challenges and Opportunities for the Water-Energy Nexus. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016, 7, 533-556.	3.3	72
2601	Three dimensional iron oxide/graphene aerogel hybrids as all-solid-state flexible supercapacitor electrodes. <i>RSC Advances</i> , 2016, 6, 58994-59000.	1.7	80
2602	Advances in Solar Photovoltaic Power Plants. <i>Green Energy and Technology</i> , 2016, , .	0.4	25
2603	Preparation and electrochemical properties of Fe ₂ O ₃ /reduced graphene oxide aerogel (Fe ₂ O ₃ /rGOA) composites for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016, 685, 355-363.	2.8	59
2604	Novel preparation of expanded nano-graphene-based electrodes for EDLC and their improved electrochemical performance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 446-454.	1.0	2
2605	A review of polymer electrolytes: fundamental, approaches and applications. <i>Ionics</i> , 2016, 22, 1259-1279.	1.2	488
2606	Screw Thread-Like Platinum-Copper Nanowires Bounded with High-Index Facets for Efficient Electrocatalysis. <i>Nano Letters</i> , 2016, 16, 5037-5043.	4.5	221
2607	Core-shell composite of wood-derived biochar supported MnO ₂ nanosheets for supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 64811-64817.	1.7	65
2608	Flexible Rechargeable Zinc-Air Batteries through Morphological Emulation of Human Hair Array. <i>Advanced Materials</i> , 2016, 28, 6421-6428.	11.1	183
2609	Mesoporous MoS ₂ as a Transition Metal Dichalcogenide Exhibiting Pseudocapacitive Li and Na ⁺ Ion Charge Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1501937.	10.2	395
2610	Ultrafine V ₂ O ₅ Nanowires in 3D Current Collector for High-Performance Supercapacitor. <i>ChemElectroChem</i> , 2016, 3, 704-708.	1.7	31

#	ARTICLE	IF	CITATIONS
2611	Three Strongly Coupled Allotropes in a Functionalized Porous All-Carbon Nanocomposite as a Superior Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 698-703.	1.7	23
2612	Shape-Controlled Synthesis of Co ₂ P Nanostructures and Their Application in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3892-3900.	4.0	319
2613	Kinetic Study of Parasitic Reactions in Lithium-Ion Batteries: A Case Study on LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3446-3451.	4.0	88
2614	Facile synthesis of N/P co-doped carbons with tailored hierarchically porous structures for supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 9772-9778.	1.7	19
2615	Design of three dimensional hybrid Co ₃ O ₄ @NiMoO ₄ core/shell arrays grown on carbon cloth as high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 13957-13963.	1.7	27
2616	Synthesis of Ag/PANI@MnO ₂ core-shell nanowires and their capacitance behavior. <i>RSC Advances</i> , 2016, 6, 17415-17422.	1.7	18
2617	Preparation and properties of DMFC membranes from polymer-brush nanoparticles. <i>Solid State Ionics</i> , 2016, 288, 154-159.	1.3	4
2618	Influence of lithium-cyclo-difluoromethane-1,1-bis(sulfonyl)imide as electrolyte additive on the reversibility of lithium metal batteries. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 339-348.	1.5	3
2619	Layered Li-rich vanadium phosphate Li ₉ V ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ : cathode and anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 191, 207-214.	2.6	17
2620	Comparison of Storage Mechanisms in RuO ₂ , SnO ₂ , and SnS ₂ for Lithium-Ion Battery Anode Materials. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2036-2046.	1.5	54
2621	Monolayer MoS ₂ -Graphene Hybrid Aerogels with Controllable Porosity for Lithium-Ion Batteries with High Reversible Capacity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2680-2687.	4.0	191
2622	In situ growth of graphitic carbon nitride films on transparent conducting substrates via a solvothermal route for photoelectrochemical performance. <i>RSC Advances</i> , 2016, 6, 9916-9922.	1.7	45
2623	Dramatically improved energy conversion and storage efficiencies by simultaneously enhancing charge transfer and creating active sites in MnO _x /TiO ₂ nanotube composite electrodes. <i>Nano Energy</i> , 2016, 20, 254-263.	8.2	77
2624	Flexible Graphene-Based Supercapacitors: A Review. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4153-4172.	1.5	508
2625	A Novel Layered Sedimentary Rocks Structure of the Oxygen-Enriched Carbon for Ultrahigh-Rate-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4233-4241.	4.0	58
2626	Rationally designed nanosheet-based CoMoO ₄ -NiMoO ₄ nanotubes for high-performance electrochemical electrodes. <i>RSC Advances</i> , 2016, 6, 10520-10526.	1.7	33
2627	Facile synthesis of microporous carbon for supercapacitors with a LiNO ₃ electrolyte. <i>Carbon</i> , 2016, 100, 214-222.	5.4	32
2628	Enhanced performance in gas adsorption and Li ion batteries by docking Li ⁺ in a crown ether-based metal-organic framework. <i>Chemical Communications</i> , 2016, 52, 3003-3006.	2.2	62

#	ARTICLE	IF	CITATIONS
2629	One-step solvothermal synthesis of quasi-hexagonal Fe ₂ O ₃ nanoplates/graphene composite as high performance electrode material for supercapacitor. <i>Electrochimica Acta</i> , 2016, 191, 275-283.	2.6	93
2630	A melt route for the synthesis of activated carbon derived from carton box for high performance symmetric supercapacitor applications. <i>Journal of Power Sources</i> , 2016, 307, 401-409.	4.0	144
2631	Simple synthesis of a CoMoS ₄ -based nanostructure and its application for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 7633-7642.	1.7	69
2632	Graphene oxide self-assembled with a cationic fullerene for high performance pseudo-capacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1663-1670.	5.2	20
2633	Turning conductive carbon nanospheres into nanosheets for high-performance supercapacitors of MnO ₂ nanorods. <i>Chemical Communications</i> , 2016, 52, 2585-2588.	2.2	47
2634	Air-expansion induced hierarchically porous carbonaceous aerogels from biomass materials with superior lithium storage properties. <i>RSC Advances</i> , 2016, 6, 7591-7598.	1.7	19
2635	An overview of AB ₂ O ₄ - and A ₂ BO ₄ -structured negative electrodes for advanced Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 21448-21474.	1.7	76
2636	A novel synthesis of size-controllable mesoporous NiMoO ₄ nanospheres for supercapacitor applications. <i>Ionics</i> , 2016, 22, 701-709.	1.2	15
2637	Artificially engineered, bicontinuous anion-conducting/-repelling polymeric phases as a selective ion transport channel for rechargeable zinc-air battery separator membranes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3711-3720.	5.2	80
2638	Environmentally-friendly aqueous Li (or Na)-ion battery with fast electrode kinetics and super-long life. <i>Science Advances</i> , 2016, 2, e1501038.	4.7	282
2639	Metal-free electrocatalytic hydrogen oxidation using frustrated Lewis pairs and carbon-based Lewis acids. <i>Chemical Science</i> , 2016, 7, 2537-2543.	3.7	28
2640	Photoelectron Spectroscopy for Lithium Battery Interface Studies. <i>Journal of the Electrochemical Society</i> , 2016, 163, A178-A191.	1.3	109
2641	Few-layer MoS ₂ nanosheets incorporated into hierarchical porous carbon for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2016, 288, 179-184.	6.6	69
2642	Self-Assembly of Parallely Aligned NiO Hierarchical Nanostructures with Ultrathin Nanosheet Subunits for Electrochemical Supercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 780-791.	4.0	86
2643	Urchin-like Ni-Co-P-O nanocomposite as novel methanol electro-oxidation materials in alkaline environment. <i>Electrochimica Acta</i> , 2016, 187, 11-19.	2.6	56
2644	Towards Effective Utilization of Nitrogen-Containing Active Sites: Nitrogen-doped Carbon Layers Wrapped CNTs Electrocatalysts for Superior Oxygen Reduction. <i>Electrochimica Acta</i> , 2016, 187, 153-160.	2.6	56
2645	Understanding electrochemical potentials of cathode materials in rechargeable batteries. <i>Materials Today</i> , 2016, 19, 109-123.	8.3	811
2646	Geometrically confined favourable ion packing for high gravimetric capacitance in carbon-ion liquid supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 232-239.	15.6	109

#	ARTICLE	IF	CITATIONS
2647	Synthesis and supercapacitor performance of Au-nanoparticle decorated MWCNT. Journal of Electroanalytical Chemistry, 2016, 761, 98-105.	1.9	30
2648	Ageing phenomena in high-voltage aqueous supercapacitors investigated by in situ gas analysis. Energy and Environmental Science, 2016, 9, 623-633.	15.6	204
2649	High power layered titanate nano-sheets as pseudocapacitive lithium-ion battery anodes. Journal of Power Sources, 2016, 305, 115-121.	4.0	28
2650	Use of manganese dioxide as oxidant in polymerization of aniline on carbon black for supercapacitor performance. High Performance Polymers, 2016, 28, 1105-1113.	0.8	14
2651	Towards high-efficiency nanoelectrocatalysts for oxygen reduction through engineering advanced carbon nanomaterials. Chemical Society Reviews, 2016, 45, 1273-1307.	18.7	589
2652	Optimal structural design of residential power and heat supply devices in consideration of operational and capital recovery constraints. Applied Energy, 2016, 163, 118-133.	5.1	40
2653	Sandwich-structured nanocomposite constructed by fabrication of exfoliation \pm -ZrP nanosheets and cobalt porphyrin utilized for electrocatalytic oxygen reduction. Microporous and Mesoporous Materials, 2016, 223, 213-218.	2.2	16
2654	A novel polysulfoneâ€“polyvinylpyrrolidone membrane with superior proton-to-vanadium ion selectivity for vanadium redox flow batteries. Journal of Materials Chemistry A, 2016, 4, 1174-1179.	5.2	85
2655	Realizing ordered arrays of nanostructures: A versatile platform for converting and storing energy efficiently. Nano Energy, 2016, 19, 328-362.	8.2	66
2656	Process Investigation of a Solid Carbon-Fueled Solid Oxide Fuel Cell Integrated with a CO ₂ -Permeating Membrane and a Sintering-Resistant Reverse Boudouard Reaction Catalyst. Energy & Fuels, 2016, 30, 1841-1848.	2.5	16
2657	Hierarchical carbon@Ni ₃ S ₂ @MoS ₂ double coreâ€“shell nanorods for high-performance supercapacitors. Journal of Materials Chemistry A, 2016, 4, 1319-1325.	5.2	87
2658	Achieving stable and efficient water oxidation by incorporating NiFe layered double hydroxide nanoparticles into aligned carbon nanotubes. Nanoscale Horizons, 2016, 1, 156-160.	4.1	99
2659	High performance electrochemical capacitor materials focusing on nickel based materials. Inorganic Chemistry Frontiers, 2016, 3, 175-202.	3.0	283
2660	Gold nanoparticle decoration of insulating boron nitride nanosheet on inert gold electrode toward an efficient electrocatalyst for the reduction of oxygen to water. Electrochemistry Communications, 2016, 66, 53-57.	2.3	35
2661	Low-dimensional carbon and MXene-based electrochemical capacitor electrodes. Nanotechnology, 2016, 27, 172001.	1.3	48
2662	3D hierarchical mesoporous NiCo ₂ S ₄ @Ni(OH) ₂ coreâ€“shell nanosheet arrays for high performance supercapacitors. New Journal of Chemistry, 2016, 40, 4810-4817.	1.4	38
2663	Low-Cost Nanostructured Iron Sulfide Electrocatalysts for PEM Water Electrolysis. ACS Catalysis, 2016, 6, 2626-2631.	5.5	105
2664	Improving the energy density of quasi-solid-state supercapacitors by assembling two redox-active gel electrolytes. International Journal of Hydrogen Energy, 2016, 41, 5725-5732.	3.8	51

#	ARTICLE	IF	CITATIONS
2665	Hierarchical MnO ₂ Spheres Decorated by Carbon-Coated Cobalt Nanobeads: Low-Cost and High-Performance Electrode Materials for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 8452-8459.	4.0	78
2666	Introduction to Nanoporous Metals. , 2016, , 1-35.		2
2668	Facile fabrication of cobalt oxalate nanostructures with superior specific capacitance and super-long cycling stability. Journal of Power Sources, 2016, 312, 184-191.	4.0	37
2669	The impact of electrochemical reduction potentials on the electrocatalytic activity of graphene oxide toward the oxygen reduction reaction in an alkaline medium. Electrochimica Acta, 2016, 199, 194-203.	2.6	33
2670	Fabrication of V ₂ O ₅ with various morphologies for high-performance electrochemical capacitor. Applied Surface Science, 2016, 377, 385-393.	3.1	121
2671	Nanoporous Metals for Advanced Energy Technologies. , 2016, , .		27
2672	Nanoporous Metals for Supercapacitor Applications. , 2016, , 137-173.		5
2673	Efficient Bi-Functional Electrocatalysts of Strontium Iron Oxy-Halides for Oxygen Evolution and Reduction Reactions in Alkaline Media. Journal of the Electrochemical Society, 2016, 163, H450-H458.	1.3	22
2674	New generation of hybrid carbon/Ni(OH) ₂ electrochemical capacitor using functionalized carbon electrode. Journal of Power Sources, 2016, 326, 702-710.	4.0	31
2675	In-situ self-crosslinked sulfonated poly(arylene ether ketone) with alkyl side chain for enhanced performance. Journal of Membrane Science, 2016, 508, 15-21.	4.1	20
2676	High-performance symmetric supercapacitor based on manganese oxyhydroxide nanosheets on carbon cloth as binder-free electrodes. Journal of Power Sources, 2016, 311, 121-129.	4.0	69
2677	Enhanced Bifunctional Oxygen Catalysis in Strained LaNiO ₃ Perovskites. Journal of the American Chemical Society, 2016, 138, 2488-2491.	6.6	310
2678	Recent progress in the development of anodes for asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 4634-4658.	5.2	154
2679	Graphene-based materials for supercapacitor electrodes – A review. Journal of Materiomics, 2016, 2, 37-54.	2.8	620
2680	Enhanced Li- and Na-storage in Sb-Graphene nanocomposite anodes. Materials Research Bulletin, 2016, 76, 338-343.	2.7	26
2681	Faradaic contributions in the supercapacitive charge storage mechanisms of manganese dioxides. Electrochimica Acta, 2016, 206, 479-489.	2.6	25
2682	Nitrogen and sulfur co-doped graphene aerogels as an efficient metal-free catalyst for oxygen reduction reaction in an alkaline solution. RSC Advances, 2016, 6, 22781-22790.	1.7	40
2683	Influence of the Fluorination Degree of Organophosphates on Flammability and Electrochemical Performance in Lithium Ion Batteries: Studies on Fluorinated Compounds Deriving from Triethyl Phosphate. Journal of the Electrochemical Society, 2016, 163, A751-A757.	1.3	49

#	ARTICLE	IF	CITATIONS
2684	Self-powered denitration of landfill leachate through ammonia/nitrate coupled redox fuel cell reactor. <i>Bioresource Technology</i> , 2016, 203, 56-61.	4.8	11
2685	Porous Fe-N _x /C hybrid derived from bi-metal organic frameworks as high efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2016, 311, 137-143.	4.0	71
2686	Porous Mn ₃ O ₄ nanorod/reduced graphene oxide hybrid paper as a flexible and binder-free anode material for lithium ion battery. <i>Energy</i> , 2016, 99, 266-273.	4.5	57
2687	C(Mo ₂ C) and Pt@C(Mo ₂ C) based mixed catalysts for oxygen reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2016, 761, 89-97.	1.9	8
2688	High-Performance Pd ₃ Pb Intermetallic Catalyst for Electrochemical Oxygen Reduction. <i>Nano Letters</i> , 2016, 16, 2560-2566.	4.5	144
2689	Performance validation of sodium-ion batteries using an ionic liquid electrolyte. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 487-496.	1.5	43
2690	Newly designed PdRuBi/N-Graphene catalysts with synergistic effects for enhanced ethylene glycol electro-oxidation. <i>Electrochimica Acta</i> , 2016, 191, 940-945.	2.6	39
2691	Graphene-based materials with tailored nanostructures for energy conversion and storage. <i>Materials Science and Engineering Reports</i> , 2016, 102, 1-72.	14.8	221
2692	Potential Application of Metal Dichalcogenides Double-Layered Heterostructures as Anode Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4779-4788.	1.5	92
2693	Graphene Oxide-Oxynitride Hybrid Nanoscrolls for Supercapacitor Electrodes with Enhanced Specific Capacitance. <i>Journal of the Electrochemical Society</i> , 2016, 163, A677-A682.	1.3	6
2694	High Performance Supercapacitors from Novel Metal-Doped Ceria-Decorated Aminated Graphene. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3107-3116.	1.5	83
2695	A Highly-Durable CO-Tolerant Poly(vinylphosphonic acid)-Coated Electrocatalyst Supported on a Nanoporous Carbon. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9030-9036.	4.0	28
2696	Review on advances in porous nanostructured nickel oxides and their composite electrodes for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 308, 121-140.	4.0	222
2697	NMR Determination of the Relative Binding Affinity of Crown Ethers for Manganese Cations in Aprotic Nonaqueous Lithium Electrolyte Solutions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3677-3683.	1.5	9
2698	Three dimensional nanocomposite of reduced graphene oxide and hexagonal boron nitride as an efficient metal-free catalyst for oxygen electroreduction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4506-4515.	5.2	56
2699	Characterization of asymmetric ultracapacitors as hybrid pulse power devices for efficient energy storage and power delivery applications. <i>Applied Energy</i> , 2016, 169, 460-468.	5.1	16
2700	Life Cycle Assessment and resource analysis of all-solid-state batteries. <i>Applied Energy</i> , 2016, 169, 757-767.	5.1	87
2701	Prediction of electrocatalytic activity of some nitrogen-doped polyaromatic hydrocarbons by molecular modelling. <i>Molecular Simulation</i> , 2016, 42, 976-980.	0.9	1

#	ARTICLE	IF	CITATIONS
2702	Elucidation of adsorption processes at the surface of Pt(331) model electrocatalysts in acidic aqueous media. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10792-10799.	1.3	17
2703	High-quality Porous Cobalt Monoxide Nanowires @ Ultrathin Manganese dioxide Sheets Core-Shell Nanowire Arrays on Ni Foam for High-Performance Supercapacitor. <i>Electrochimica Acta</i> , 2016, 194, 377-384.	2.6	53
2704	Enhanced proton conductivity of sulfonated poly(arylene ether ketone sulfone) for fuel cells by grafting triazole groups onto polymer chains. <i>Journal of Membrane Science</i> , 2016, 509, 173-181.	4.1	61
2705	Density Functional Theory Study of Iron Phthalocyanine Porous Layer Deposited on Graphene Substrate: A Pt-Free Electrocatalyst for Hydrogen Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5384-5391.	1.5	41
2706	New mechanistic insight into the oxygen reduction reaction on Ruddlesden-Popper cathodes for intermediate-temperature solid oxide fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8502-8511.	1.3	26
2707	Non-aqueous nanoporous gold based supercapacitors with high specific energy. <i>Scripta Materialia</i> , 2016, 116, 76-81.	2.6	22
2708	Morphology Effect of Vertical Graphene on the High Performance of Supercapacitor Electrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7363-7369.	4.0	98
2709	Synthesis and supercapacitor electrode of VO ₂ (B)/C core-shell composites with a pseudocapacitance in aqueous solution. <i>Applied Surface Science</i> , 2016, 371, 189-195.	3.1	90
2710	Synthesis and electrochemical characterization of nano-sized Ag ₄ Sn particles as anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 196, 597-602.	2.6	17
2711	Facile Synthesis and High Capacitive Performance of 3D Hierarchical Ni(OH) ₂ Microspheres. <i>Electrochimica Acta</i> , 2016, 196, 84-91.	2.6	45
2712	An efficient preparation of N-doped mesoporous carbon derived from milk powder for supercapacitors and fuel cells. <i>Electrochimica Acta</i> , 2016, 196, 527-534.	2.6	49
2713	Nanoconfined nitrogen-doped carbon-coated MnO nanoparticles in graphene enabling high performance for lithium-ion batteries and oxygen reduction reaction. <i>Chemical Science</i> , 2016, 7, 4284-4290.	3.7	121
2714	High-performance graphene-based supercapacitors made by a scalable blade-coating approach. <i>Nanotechnology</i> , 2016, 27, 165402.	1.3	16
2715	Quaternary ammonium functionalized poly(arylene ether sulfone)/poly(vinylpyrrolidone) composite membranes for electrical double-layer capacitors with activated carbon electrodes. <i>Journal of Membrane Science</i> , 2016, 505, 148-156.	4.1	25
2716	Temperature effects on the electrohydrodynamic and electrokinetic behaviour of ion-selective nanochannels. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 114002.	0.7	23
2717	3D Graphene-Nickel Hydroxide Hydrogel Electrode for High-Performance Supercapacitor. <i>Electrochimica Acta</i> , 2016, 196, 653-660.	2.6	83
2718	MoS ₂ /RGO/Ni ₃ S ₂ Nanocomposite in-situ Grown on Ni Foam Substrate and Its High Electrochemical Performance. <i>Electrochimica Acta</i> , 2016, 198, 135-143.	2.6	41
2719	Electrospun polyetherimide nanofiber mat-reinforced, permselective polyvinyl alcohol composite separator membranes: A membrane-driven step closer toward rechargeable zinc-air batteries. <i>Journal of Membrane Science</i> , 2016, 499, 526-537.	4.1	65

#	ARTICLE	IF	CITATIONS
2720	A flexible solid-state electrolyte for wide-scale integration of rechargeable zinc-air batteries. <i>Energy and Environmental Science</i> , 2016, 9, 663-670.	15.6	275
2721	Fabrication of a flat V ³⁺ /Fe ³⁺ redox microbattery from gold compact disk using drilling technique. <i>Journal of Power Sources</i> , 2016, 305, 144-150.	4.0	3
2722	Porous and single-crystalline-like molybdenum nitride nanobelts as a non-noble electrocatalyst for alkaline fuel cells and electrode materials for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 996-1001.	3.8	54
2723	Electron Transfer and Catalytic Mechanism of Organic Molecule-Adsorbed Graphene Nanoribbons as Efficient Catalysts for Oxygen Reduction and Evolution Reactions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2166-2175.	1.5	42
2724	Facile synthesis of nickel-foam-based nano-architectural composites as binder-free anodes for high capacity Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 304, 311-318.	4.0	16
2725	Electrochemical improvement due to alignment of carbon nanofibers fabricated by electrospinning as an electrode for supercapacitor. <i>Carbon</i> , 2016, 99, 607-618.	5.4	85
2726	Graphene decorated with MoS ₂ nanosheets: a synergetic energy storage composite electrode for supercapacitor applications. <i>Dalton Transactions</i> , 2016, 45, 2637-2646.	1.6	200
2727	A comparative study on adsorption and photocatalytic dye degradation under visible light irradiation by mesoporous MnO ₂ modified MCM-41 nanocomposite. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 229-242.	2.2	62
2728	Rationally Designed Carbon Fiber@NiCo ₂ O ₄ @Polypyrrole Core-Shell Nanowire Array for High-Performance Supercapacitor Electrodes. <i>Nano</i> , 2016, 11, 1650015.	0.5	33
2729	Pb ²⁺ -N Bonding Chemistry: Recycling of Polyaniline-Pb Nanocrystals Waste for Generating High-Performance Supercapacitor Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 911-918.	1.5	16
2730	Electrochemical studies of perovskite cathode material for direct natural gas fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3072-3078.	3.8	25
2731	Nafion® and Fumapem® polymer electrolytes for the development of advanced solid-state supercapacitors. <i>Electrochimica Acta</i> , 2016, 206, 432-439.	2.6	13
2732	Effect of the incorporation of sulfonated chitosan/sulfonated graphene oxide on the proton conductivity of chitosan membranes. <i>Journal of Power Sources</i> , 2016, 306, 541-551.	4.0	114
2733	Facile synthesis of Cu ₂ O microstructures and their morphology dependent electrochemical supercapacitor properties. <i>RSC Advances</i> , 2016, 6, 3815-3822.	1.7	92
2734	Solution-processed poly(3,4-ethylenedioxythiophene) nanocomposite paper electrodes for high-capacitance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1714-1722.	5.2	114
2735	Ni nanoparticle doped porous VN nanoflakes assembled into hierarchical hollow microspheres with a structural inheritance from the Ni _{1-x} V _x O ₂ cathode material for high performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2158-2168.	5.2	49
2736	Review on recent advances in nitrogen-doped carbons: preparations and applications in supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1144-1173.	5.2	879
2737	Flexible full-solid state supercapacitors based on zinc sulfide spheres growing on carbon textile with superior charge storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 667-674.	5.2	133

#	ARTICLE	IF	CITATIONS
2738	Hierarchical three-dimensional mesoporous MnO ₂ nanostructures for high performance aqueous asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 587-595.	5.2	92
2739	Double polymer sheathed carbon nanotube supercapacitors show enhanced cycling stability. <i>Nanoscale</i> , 2016, 8, 626-633.	2.8	36
2740	Electrochemical energy storage in montmorillonite K10 clay based composite as supercapacitor using ionic liquid electrolyte. <i>Journal of Colloid and Interface Science</i> , 2016, 464, 73-82.	5.0	55
2741	One-dimensional metal oxide-carbon hybrid nanostructures for electrochemical energy storage. <i>Nanoscale Horizons</i> , 2016, 1, 27-40.	4.1	119
2742	Construction of reduced graphene oxide supported molybdenum carbides composite electrode as high-performance anode materials for lithium ion batteries. <i>Materials Research Bulletin</i> , 2016, 73, 459-464.	2.7	40
2743	Aqueous Rechargeable Alkaline Co ₂ Ni ₂ S ₂ /TiO ₂ Battery. <i>ACS Nano</i> , 2016, 10, 1007-1016.	7.3	123
2744	Hierarchically porous Li _{1.2} Mn _{0.6} Ni _{0.2} O ₂ as a high capacity and high rate capability positive electrode material. <i>New Journal of Chemistry</i> , 2016, 40, 1312-1322.	1.4	11
2745	Gradiently crosslinked polymer electrolyte membranes in fuel cells. <i>Journal of Power Sources</i> , 2016, 301, 204-209.	4.0	27
2746	Performance study of magnesium-sulfur battery using a graphene based sulfur composite cathode electrode and a non-nucleophilic Mg electrolyte. <i>Nanoscale</i> , 2016, 8, 3296-3306.	2.8	247
2747	Fe ₃ O ₄ -based core/shell nanocomposites for high-performance electrochemical supercapacitors. <i>Journal of Materials Science</i> , 2016, 51, 1572-1580.	1.7	90
2748	Transition metal based layered double hydroxides tailored for energy conversion and storage. <i>Materials Today</i> , 2016, 19, 213-226.	8.3	464
2749	High-performance supercapacitor based on activated carbon-MnO ₂ -polyaniline composite. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1357-1362.	1.1	29
2750	Exploitation of KMnO ₄ material as precursors for the fabrication of manganese oxide nanomaterials. <i>Journal of Taibah University for Science</i> , 2016, 10, 412-429.	1.1	28
2751	Structure and electrochemical performance of highly porous carbons by single-step potassium humate carbonization for application in supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 113-121.	1.5	13
2752	SnO ₂ -decorated multiwalled carbon nanotubes and Vulcan carbon through a sonochemical approach for supercapacitor applications. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 205-212.	3.8	39
2753	Tailoring the surface-oxygen defects of a tin dioxide support towards an enhanced electrocatalytic performance of platinum nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5932-5937.	1.3	15
2754	Models of Ion Solvation Thermodynamics in Ethylene Carbonate and Propylene Carbonate. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1497-1508.	1.2	28
2755	Synthesis and applications of metal-organic framework-quantum dot (QD@MOF) composites. <i>Coordination Chemistry Reviews</i> , 2016, 307, 267-291.	9.5	289

#	ARTICLE	IF	CITATIONS
2756	Mixed-phase bismuth ferrite nanoflake electrodes for supercapacitor application. Applied Nanoscience (Switzerland), 2016, 6, 511-519.	1.6	92
2757	Metal carbonates: alternative to metal oxides for supercapacitor applications? A case study of MnCO ₃ vs MnO ₂ . Journal of Solid State Electrochemistry, 2016, 20, 1877-1883.	1.2	19
2758	Nitrogen doped sublimed carbon as non-noble metal catalyst for oxygen reduction reaction. Catalysis Today, 2016, 264, 206-213.	2.2	14
2759	Injury Severity Score Inflation Resulting From Panâ€œComputed Tomography in Patients With Blunt Trauma. Annals of Emergency Medicine, 2016, 67, 71-75.e3.	0.3	8
2760	Relationship Between Subglottal Pressure and Sound Pressure Level in Untrained Voices. Journal of Voice, 2016, 30, 15-20.	0.6	41
2761	Combined Measures of Dynamic Bone Quality and Postural Balanceâ€œA Fracture Risk Assessment Approach in Osteoporosis. Journal of Clinical Densitometry, 2016, 19, 154-164.	0.5	14
2762	Enhancement of electroactivity of platinumâ€œtungsten trioxide nanocomposites with NaOH-treated carbon support toward methanol oxidation reaction. Applied Energy, 2016, 164, 1043-1051.	5.1	18
2763	Oneâ€œStep Synthesis of Graphene/Polyaniline Nanotube Composite for Supercapacitor Electrode. Chinese Journal of Chemistry, 2016, 34, 107-113.	2.6	20
2764	Nanocarbon-intercalated and Feâ€œN-codoped graphene as a highly active noble-metal-free bifunctional electrocatalyst for oxygen reduction and evolution. Journal of Materials Chemistry A, 2017, 5, 1930-1934.	5.2	88
2765	Synergistic effects in biphasic nanostructured electrocatalyst: Crystalline core versus amorphous shell. Nano Energy, 2017, 41, 788-797.	8.2	27
2766	Is there a resource constraint related to lithium ion batteries in cars?. International Journal of Life Cycle Assessment, 2017, 22, 40-53.	2.2	67
2767	Electrochemical Supercapacitor Design, Fabrication, and Operation. , 2017, , 203-246.		0
2768	Applications of Electrochemical Supercapacitors. , 2017, , 317-334.		1
2769	Perspectives and Challenges. , 2017, , 335-348.		1
2770	A Silicon-Organic Hybrid Voltage Equalizer for Supercapacitor Balancing. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2017, 7, 114-122.	2.7	10
2771	Controlled Fabrication of Hierarchically Structured Nitrogenâ€œDoped Carbon Nanotubes as a Highly Active Bifunctional Oxygen Electrocatalyst. Advanced Functional Materials, 2017, 27, 1605717.	7.8	80
2772	Introduction and Literature Background. Springer Theses, 2017, , 1-37.	0.0	1
2773	Microwaveâ€œAssisted Rapid Synthesis of Selfâ€œAssembled Taâ€œNb ₂ O ₅ Nanowires for Highâ€œEnergy Hybrid Supercapacitors. Chemistry - A European Journal, 2017, 23, 4203-4209.	1.7	53

#	ARTICLE	IF	CITATIONS
2774	A Self-Assembled Cofacial Cobalt Porphyrin Prism for Oxygen Reduction Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 1424-1427.	6.6	151
2775	Carbon-Based Functional Materials Derived from Waste for Water Remediation and Energy Storage. <i>Advanced Materials</i> , 2017, 29, 1605361.	11.1	293
2776	Experimental and Correlative Analyses of the Ageing Mechanism of Activated Carbon Based Supercapacitor. <i>Electrochimica Acta</i> , 2017, 228, 214-225.	2.6	46
2777	Excellent membranes for hydrogen purification: Dumbbell-shaped porous β -graphynes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5168-5176.	3.8	35
2778	Nonaqueous Polyelectrolyte Solutions as Liquid Electrolytes with High Lithium Ion Transference Number and Conductivity. <i>ACS Energy Letters</i> , 2017, 2, 481-487.	8.8	69
2779	All-solid-state asymmetric supercapacitors based on cobalt hexacyanoferrate-derived CoS and activated carbon. <i>RSC Advances</i> , 2017, 7, 6648-6659.	1.7	184
2780	Nitrogen-doped carbon spheres: A new high-energy-density and long-life pseudo-capacitive electrode material for electrochemical flow capacitor. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 161-166.	5.0	20
2781	Bottom-up fabrication of nitrogen-doped mesoporous carbon nanosheets as high performance oxygen reduction catalysts. <i>Journal of Colloid and Interface Science</i> , 2017, 492, 8-14.	5.0	10
2782	Hierarchically designed PEDOT encapsulated graphene-MnO ₂ nanocomposite as supercapacitors. <i>Materials Research Bulletin</i> , 2017, 88, 218-225.	2.7	18
2783	Integrated graphene systems by laser irradiation for advanced devices. <i>Nano Today</i> , 2017, 12, 14-30.	6.2	78
2784	Nanocomposite polymer electrolytes. <i>Ionics</i> , 2017, 23, 2531-2542.	1.2	21
2785	Inorganic Porous Films for Renewable Energy Storage. <i>ACS Energy Letters</i> , 2017, 2, 373-390.	8.8	68
2786	Tuneable fluidics within graphene nanogaps for water purification and energy storage. <i>Nanoscale Horizons</i> , 2017, 2, 89-98.	4.1	32
2787	Mechanical and electrical behavior of carbon fiber structural capacitors: Effects of delamination and interlaminar damage. <i>Composite Structures</i> , 2017, 166, 38-48.	3.1	13
2788	Co/N-C nanotubes with increased coupling sites by space-confined pyrolysis for high electrocatalytic activity. <i>Green Energy and Environment</i> , 2017, 2, 23-29.	4.7	10
2789	Effects of phase constitution and microstructure on energy storage properties of barium strontium titanate ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 2099-2104.	2.8	70
2790	Graphene-based Composites for Electrochemical Energy Storage. <i>Springer Theses</i> , 2017, , .	0.0	10
2791	Nanoporous metal/metal-oxide composite prepared by one-step de-alloying AlNiCoYCu metallic glasses. <i>Journal of Alloys and Compounds</i> , 2017, 703, 461-465.	2.8	21

#	ARTICLE	IF	CITATIONS
2792	Enhancing the Lithium Ion Conductivity in Lithium Superionic Conductor (LISICON) Solid Electrolytes through a Mixed Polyanion Effect. ACS Applied Materials & Interfaces, 2017, 9, 7050-7058.	4.0	147
2793	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. Chemistry - A European Journal, 2017, 23, 4435-4441.	1.7	134
2794	Potential application of Ni and Co stabilized zirconia as oxygen reduction reaction catalyst. Catalysis Communications, 2017, 93, 37-42.	1.6	5
2795	An Efficient Bifunctional Electrocatalyst for a Zinc-Air Battery Derived from Fe/N/C and Bimetallic Metal-Organic Framework Composites. ACS Applied Materials & Interfaces, 2017, 9, 5213-5221.	4.0	113
2796	Cross-linked fibrous composite separator for high performance lithium-ion batteries with enhanced safety. Journal of Membrane Science, 2017, 527, 129-136.	4.1	73
2797	Application of Ionic Liquids to Energy Storage and Conversion Materials and Devices. Chemical Reviews, 2017, 117, 7190-7239.	23.0	1,214
2798	Metal-Organic Frameworks for Energy Applications. Chem, 2017, 2, 52-80.	5.8	941
2799	Thermally Converted CoO Nanoparticles Embedded into N-Doped Carbon Layers as Highly Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Oxygen Evolution Reactions. ChemCatChem, 2017, 9, 1503-1510.	1.8	31
2800	Solar Energy Storage by a Heterostructured BiVO ₄ -PbO _x Photocapacitive Device. ACS Energy Letters, 2017, 2, 469-475.	8.8	38
2801	A report on 1D MgCo ₂ O ₄ with enhanced structural, morphological and electrochemical properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 6880-6888.	1.1	29
2802	Three-dimensional nitrogen-doped graphene derived from poly-o-phenylenediamine for high-performance supercapacitors. Journal of Electroanalytical Chemistry, 2017, 787, 103-109.	1.9	32
2803	Strained graphitic carbon nitride for hydrogen purification. Journal of Membrane Science, 2017, 528, 201-205.	4.1	23
2804	Thin films of V ₂ O ₅ /MoO ₃ and their applications in electrochromism. Journal of Solid State Electrochemistry, 2017, 21, 1509-1515.	1.2	25
2805	Synthesis and supercapacitive performance of CuO/Cu ₂ O nanosheet arrays modified by hydrothermal deposited NiOOH. Journal of Solid State Electrochemistry, 2017, 21, 1489-1497.	1.2	14
2806	Electrochemical analysis graphite/electrolyte interface in lithium-ion batteries: p-Toluenesulfonyl isocyanate as electrolyte additive. Nano Energy, 2017, 34, 131-140.	8.2	208
2807	High energy lithium ion battery electrode materials; enhanced charge storage via both alloying and insertion processes. Electrochimica Acta, 2017, 231, 247-254.	2.6	10
2808	Construction of cobalt sulfide/graphitic carbon nitride hybrid nanosheet composites for high performance supercapacitor electrodes. Journal of Alloys and Compounds, 2017, 706, 41-47.	2.8	91
2809	Elevated Temperature Lithium-Ion Batteries Containing SnO ₂ Electrodes and LiTFSI-Pip ₁₄ TFSI Ionic Liquid Electrolyte. Journal of the Electrochemical Society, 2017, 164, A701-A708.	1.3	4

#	ARTICLE	IF	CITATIONS
2810	<i>In situ</i> imaging of Li intercalation in graphite particles in an Li-ion battery. Journal of Microscopy, 2017, 266, 249-252.	0.8	1
2811	Theoretical Investigation of 2D Layered Materials as Protective Films for Lithium and Sodium Metal Anodes. Advanced Energy Materials, 2017, 7, 1602528.	10.2	196
2812	NiCo ₂ O ₄ @rGO hybrid nanostructures on Ni foam as high-performance supercapacitor electrodes. Journal of Materials Chemistry A, 2017, 5, 5912-5919.	5.2	198
2813	Novel method of preparing CoFe ₂ O ₄ /graphene by using steel rolling sludge for supercapacitor. Electrochimica Acta, 2017, 231, 565-574.	2.6	50
2814	Topochemical Reaction of Exfoliated Layered Cobalt(II) Hydroxide for the Synthesis of Ultrapure Co ₃ O ₄ as an Oxygen Reduction Catalyst. European Journal of Inorganic Chemistry, 2017, 2017, 2184-2189.	1.0	12
2815	Structural Supercapacitors with Enhanced Performance Using Carbon Nanotubes and Polyaniline. Journal of the Electrochemical Society, 2017, 164, A691-A700.	1.3	56
2816	A two-volt aqueous supercapacitor from porous dehalogenated carbon. Journal of Materials Chemistry A, 2017, 5, 6734-6739.	5.2	23
2817	A Highly Efficient Co ₃ O ₄ Nanoparticle Incorporated Mesoporous Beta Composite as a Synergistic Catalyst for Oxygen Reduction. ChemElectroChem, 2017, 4, 1279-1286.	1.7	12
2818	Review of macroporous materials as electrochemical supercapacitor electrodes. Journal of Materials Science, 2017, 52, 11201-11228.	1.7	127
2819	Biomass derived graphene-like activated and non-activated porous carbon for advanced supercapacitors. Journal of Chemical Sciences, 2017, 129, 397-404.	0.7	64
2820	High performance Li ₂ MnO ₃ /rGO composite cathode for lithium ion batteries. Journal of Power Sources, 2017, 349, 11-17.	4.0	29
2821	In situ Fe ₂ N@N-doped porous carbon hybrids as superior catalysts for oxygen reduction reaction. Nanoscale, 2017, 9, 8102-8106.	2.8	80
2822	Synthesis of Three-Dimensional Nitrogen and Sulfur Dual-Doped Graphene Aerogels as an Efficient Metal-Free Electrocatalyst for the Oxygen Reduction Reaction. ChemElectroChem, 2017, 4, 1885-1890.	1.7	21
2823	Synthesis and electrochemical performance of hydrothermally synthesized Co ₃ O ₄ nanostructured particles in presence of urea. Journal of Alloys and Compounds, 2017, 708, 628-638.	2.8	47
2824	Tuning/exploiting Strong Metal-Support Interaction (SMSI) in Heterogeneous Catalysis. Journal of the Taiwan Institute of Chemical Engineers, 2017, 74, 154-186.	2.7	238
2825	Asymmetric Supercapacitor Electrodes and Devices. Advanced Materials, 2017, 29, 1605336.	11.1	1,021
2826	Interconnected Porous Carbon: Unique Versatile Matrix for the Growth of Nanostructured Polyaniline and Its Enhanced Performance towards Electrochemical Energy Storage. ChemistrySelect, 2017, 2, 2197-2204.	0.7	2
2827	Phthalocyanine tethered iron phthalocyanine on graphitized carbon black as superior electrocatalyst for oxygen reduction reaction. Nano Energy, 2017, 34, 338-343.	8.2	113

#	ARTICLE	IF	CITATIONS
2828	Reduced Graphene Oxide/Fe ₃ O ₄ /Polyaniline Nanostructures as Electrode Materials for an All-Solid-State Hybrid Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7573-7583.	1.5	221
2829	One-step preparation of N-doped graphitic layer-encased cobalt/iron carbide nanoparticles derived from cross-linked polyphthalocyanines as highly active electrocatalysts towards the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2017, 7, 1529-1536.	2.1	18
2830	High Conductive Architecture: Bimetal Oxide with Metallic Properties @ Bimetal Hydroxide for High-performance Pseudocapacitor. <i>Electrochimica Acta</i> , 2017, 231, 487-494.	2.6	13
2831	Integrated solar capacitors for energy conversion and storage. <i>Nano Research</i> , 2017, 10, 1545-1559.	5.8	61
2832	Charge storage mechanisms of electrospun Mn ₃ O ₄ nanofibres for high-performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 9958-9963.	1.7	53
2833	Hydrothermal synthesis of pure LiMn ₂ O ₄ from nanostructured MnO ₂ precursors for aqueous hybrid supercapacitors. <i>Ionics</i> , 2017, 23, 1083-1090.	1.2	9
2834	Fast Diffusion of O ₂ on Nitrogen-Doped Graphene to Enhance Oxygen Reduction and Its Application for High-Rate Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7125-7130.	4.0	52
2835	PdAuCu Nanobranch as Self-Repairing Electrocatalyst for Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2017, 10, 1469-1474.	3.6	19
2836	Co@Pt Core@Shell nanoparticles encapsulated in porous carbon derived from zeolitic imidazolate framework 67 for oxygen electroreduction in alkaline media. <i>Journal of Power Sources</i> , 2017, 343, 458-466.	4.0	99
2837	Influence of the Nb ₂ O ₅ doping on the electrochemical properties of V ₂ O ₅ thin films. <i>Journal of Electroanalytical Chemistry</i> , 2017, 790, 50-56.	1.9	25
2838	Learning from Electrochemical Data: Simple Evaluation and Classification of LiMO ₂ -type-based Positive Electrodes for Li-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 1670-1679.	1.8	90
2839	PdCu alloy nanodendrites with tunable composition as highly active electrocatalysts for methanol oxidation. <i>RSC Advances</i> , 2017, 7, 5800-5806.	1.7	26
2840	Polyaniline silver nanoparticle coffee waste extracted porous graphene oxide nanocomposite structures as novel electrode material for rechargeable batteries. <i>Materials Research Express</i> , 2017, 4, 035501.	0.8	22
2841	Mesoporous MnO ₂ Nanosphere/Graphene Sheets as Electrodes for Supercapacitor Synthesized by a Simple and Inexpensive Reflux Reaction. <i>Electrochimica Acta</i> , 2017, 238, 30-35.	2.6	28
2842	Potential of Si-doped boron nitride nanotubes as a highly active and metal-free electrocatalyst for oxygen reduction reaction: A DFT study. <i>Synthetic Metals</i> , 2017, 226, 129-138.	2.1	16
2843	Highly uniform distribution of Pt nanoparticles on N-doped hollow carbon spheres with enhanced durability for oxygen reduction reaction. <i>RSC Advances</i> , 2017, 7, 6303-6308.	1.7	44
2844	One-pot hydrothermal synthesis of novel 3D starfish-like γ -MnO ₂ nanosheets on carbon fiber paper for high-performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 14910-14916.	1.7	32
2845	Controllable Synthesis of NiCo LDH Nanosheets for Fabrication of High-Performance Supercapacitor Electrodes. <i>Electroanalysis</i> , 2017, 29, 1286-1293.	1.5	95

#	ARTICLE	IF	CITATIONS
2846	Amorphous vanadyl phosphate/graphene composites for high performance supercapacitor electrode. <i>Journal of Power Sources</i> , 2017, 344, 185-194.	4.0	38
2847	States of water in proton exchange membranes: Part A - Influence of chemical structure and composition. <i>Polymer</i> , 2017, 111, 297-306.	1.8	20
2848	An aqueous rechargeable chloride ion battery. <i>Energy Storage Materials</i> , 2017, 7, 189-194.	9.5	90
2849	Activation of silicon towards hydrogen generation by pelletisation. <i>Journal of Alloys and Compounds</i> , 2017, 704, 146-151.	2.8	10
2850	How Do Pseudocapacitors Store Energy? Theoretical Analysis and Experimental Illustration. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8649-8658.	4.0	293
2851	Two-Dimensional Metal Oxide Nanomaterials for Next-Generation Rechargeable Batteries. <i>Advanced Materials</i> , 2017, 29, 1700176.	11.1	317
2852	Hierarchical hollow cages of Mn-Co layered double hydroxide as supercapacitor electrode materials. <i>Applied Surface Science</i> , 2017, 413, 35-40.	3.1	98
2853	Microbial fuel cells: From fundamentals to applications. A review. <i>Journal of Power Sources</i> , 2017, 356, 225-244.	4.0	1,264
2854	Heteroatom-Doped Carbon Materials for Electrocatalysis. <i>Chemistry - A European Journal</i> , 2017, 23, 10703-10713.	1.7	64
2855	Direct liquid fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10142-10157.	3.8	427
2856	Novel binder-free electrode materials for supercapacitors utilizing high surface area carbon nanofibers derived from immiscible polymer blends of PBI/6FDA-DAM:DABA. <i>RSC Advances</i> , 2017, 7, 20947-20959.	1.7	31
2857	High stability and performance of PtRu electrocatalyst derived from double polymer coatings. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 11803-11812.	3.8	15
2858	Modelling boron nitride nano-structures as catalysts in fuel cells. <i>Molecular Simulation</i> , 2017, 43, 724-728.	0.9	4
2859	Magnetic tomography for lead acid batteries. <i>Journal of Energy Storage</i> , 2017, 12, 1-10.	3.9	6
2860	Modeling and Simulation of Piezoelectrically Driven Self-Charging Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15893-15897.	4.0	19
2861	Biomass Derived N-Doped Porous Carbon Supported Single Fe Atoms as Superior Electrocatalysts for Oxygen Reduction. <i>Small</i> , 2017, 13, 1604290.	5.2	132
2862	Preparation and electrochemical performances of graphene/polypyrrole nanocomposite with anthraquinone-graphene oxide as active oxidant. <i>Carbon</i> , 2017, 119, 111-118.	5.4	80
2863	Hierarchical design of nitrogen-doped porous carbon nanorods for use in high efficiency capacitive energy storage. <i>RSC Advances</i> , 2017, 7, 22447-22453.	1.7	19

#	ARTICLE	IF	CITATIONS
2864	Effect of carbonization conditions of polyaniline on its catalytic activity towards ORR. Some insights about the nature of the active sites. Carbon, 2017, 119, 62-71.	5.4	67
2865	3D direct writing fabrication of electrodes for electrochemical storage devices. Journal of Power Sources, 2017, 354, 134-147.	4.0	164
2866	In situ hybridization of CoO _x nanoparticles on N-doped graphene through one step mineralization of co-responsive hydrogels. Dalton Transactions, 2017, 46, 6163-6167.	1.6	11
2867	Facile Growth of Caterpillar-like NiCo ₂ S ₄ Nanocrystal Arrays on Nickle Foam for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 18774-18781.	4.0	165
2868	Transition-Metal (Fe, Co, Ni) Based Metal-Organic Frameworks for Electrochemical Energy Storage. Advanced Energy Materials, 2017, 7, 1602733.	10.2	711
2869	An advanced CoSe embedded within porous carbon polyhedra hybrid for high performance lithium-ion and sodium-ion batteries. Chemical Engineering Journal, 2017, 325, 14-24.	6.6	281
2870	Retrieval of Au, Ag, Cu precious metals coupled with electric energy production via an unconventional coupled redox fuel cell reactor. Journal of Hazardous Materials, 2017, 338, 194-201.	6.5	13
2871	Conjugated Microporous Polycarbazole Networks as Precursors for Nitrogen-Enriched Microporous Carbons for CO ₂ Storage and Electrochemical Capacitors. Chemistry of Materials, 2017, 29, 4885-4893.	3.2	140
2872	An Overview of Chemical and Mechanical Stabilities of Polymer Electrolytes Membrane. , 2017, , 327-340.		1
2873	Ionic liquid-assisted synthesis of rGO wrapped three-dimensional CuS ordered nanoerythrocytes with enhanced performance for asymmetric supercapacitors. Chemical Engineering Journal, 2017, 325, 424-432.	6.6	70
2874	Review Article: Flow battery systems with solid electroactive materials. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, .	0.6	45
2875	High-Performance Flexible Supercapacitors obtained via Recycled Jute: Bio-Waste to Energy Storage Approach. Scientific Reports, 2017, 7, 1174.	1.6	122
2876	Hierarchical Nickel Cobaltate/Manganese Dioxide Core-Shell Nanowire Arrays on Graphene-Decorated Nickel Foam for High-Performance Supercapacitors. ChemElectroChem, 2017, 4, 2414-2422.	1.7	33
2877	WS ₂ nanosheets decorated by Ag nanoparticles with different content and uniform distribution for enhanced electrochemical properties. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	9
2878	Atomically thin SiC nanoparticles obtained via ultrasonic treatment to realize enhanced catalytic activity for the oxygen reduction reaction in both alkaline and acidic media. RSC Advances, 2017, 7, 22875-22881.	1.7	34
2879	In situ growth of cobalt sulfide hollow nanospheres embedded in nitrogen and sulfur co-doped graphene nanoholes as a highly active electrocatalyst for oxygen reduction and evolution. Journal of Materials Chemistry A, 2017, 5, 12354-12360.	5.2	93
2880	Electrocatalytic activity of Pt nanoparticles supported on novel functionalized reduced graphene oxide-chitosan for methanol electrooxidation. Journal of Materials Science: Materials in Electronics, 2017, 28, 12373-12382.	1.1	16
2881	Evaluating the Potential Benefits of Metal Ion Doping in SnO ₂ Negative Electrodes for Lithium Ion Batteries. Electrochimica Acta, 2017, 242, 400-407.	2.6	30

#	ARTICLE	IF	CITATIONS
2882	Nanostructured cobalt oxide and cobalt sulfide for flexible, high performance and durable supercapacitors. <i>Energy Storage Materials</i> , 2017, 8, 68-76.	9.5	84
2883	Updates on the development of nanostructured transition metal nitrides for electrochemical energy storage and water splitting. <i>Materials Today</i> , 2017, 20, 425-451.	8.3	339
2884	Electroconductive properties of zirconia/carbon nanotube aerogel composite. <i>Inorganic Materials</i> , 2017, 53, 185-189.	0.2	2
2885	Organic-Inorganic Composite Polymer Electrolyte Membranes. , 2017, , .		10
2886	Emerging 3D-Printed Electrochemical Energy Storage Devices: A Critical Review. <i>Advanced Energy Materials</i> , 2017, 7, 1700127.	10.2	300
2887	Electrochemical supercapacitive performance of potentiostatically cathodic electrodeposited nanostructured MnO ₂ films. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2393-2405.	1.2	13
2888	Facile synthesis of papillae-like polyaniline nanocones on graphene nanosheets for ultracapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11603-11608.	1.1	0
2889	A Tubular Sandwich-Structured CNT@Ni@Ni ₂ (CO ₃) ₂ (OH) ₂ with High Stability and Superior Capacity as Hybrid Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9719-9728.	1.5	39
2890	Constructing a Heterostructural LiNi _{0.4} Mn _{1.6} O ₄ Material from Concentration-Gradient Framework to Significantly Improve Its Cycling Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15822-15829.	4.0	11
2891	Sonochemically synthesized hydroxy-functionalized graphene-MnO ₂ nanocomposite for supercapacitor applications. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 789-801.	1.5	35
2892	Theoretical study of H ₂ separation performance of two-dimensional graphitic carbon oxide membrane. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 13120-13126.	3.8	17
2893	Freestanding Gold/Graphene Oxide/Manganese Oxide Microsupercapacitor Displaying High Areal Energy Density. <i>ChemSusChem</i> , 2017, 10, 2736-2741.	3.6	14
2894	Niobium oxide nanoparticle core-amorphous carbon shell structure for fast reversible lithium storage. <i>Electrochimica Acta</i> , 2017, 240, 316-322.	2.6	34
2895	Flexible symmetric and asymmetric supercapacitors based in nanocomposites of carbon cloth/polyaniline - carbon nanotubes. <i>Energy</i> , 2017, 130, 22-28.	4.5	64
2896	Heteroelement Y-doped Ni(OH) ₂ nanosheets with excellent pseudocapacitive performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10039-10047.	5.2	80
2897	Bottom-Up Design of High-Performance Pt Electrocatalysts Supported on Carbon Nanotubes with Homogeneous Ionomer Distribution. <i>ChemCatChem</i> , 2017, 9, 3307-3313.	1.8	18
2898	Synthesis of B-doped graphene quantum dots as a metal-free electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10537-10543.	5.2	178
2899	Electrochemical Analysis the influence of Propargyl Methanesulfonate as Electrolyte Additive for Spinel LTO Interface Layer. <i>Electrochimica Acta</i> , 2017, 241, 208-219.	2.6	30

#	ARTICLE	IF	CITATIONS
2900	Nitrogen and Phosphorus Codoped Mesoporous Carbon Derived from Polypyrrole as Superior Metal-Free Electrocatalyst toward the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 16236-16242.	4.0	105
2901	Electrospinning synthesis of Co ₃ O ₄ @C nanofibers as a high-performance anode for sodium ion batteries. RSC Advances, 2017, 7, 23122-23126.	1.7	22
2902	Single-step growth of pyramidally textured NiO nanostructures with improved supercapacitive properties. International Journal of Hydrogen Energy, 2017, 42, 6080-6087.	3.8	31
2903	Single Nozzle Electrospinning Synthesized MoO ₂ @C Core Shell Nanofibers with High Capacity and Long-term Stability for Lithium-ion Storage. Advanced Materials Interfaces, 2017, 4, 1600816.	1.9	73
2904	Ultrathin and Highly Crystalline Co ₃ O ₄ Nanosheets In Situ Grown on Graphene toward Enhanced Supercapacitor Performance. Advanced Materials Interfaces, 2017, 4, 1600884.	1.9	33
2905	Sb-AlC 0.75 -C composite anodes for high-performance sodium-ion batteries. Journal of Power Sources, 2017, 340, 393-400.	4.0	19
2906	Enhanced composites of V ₂ O ₅ nanowires decorating on graphene layers as ideal cathode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2017, 695, 2974-2980.	2.8	26
2907	A Multifunction Lithium-Carbon Battery System Using a Dual Electrolyte. ACS Energy Letters, 2017, 2, 36-44.	8.8	28
2908	BaMF ₄ (M = Mn, Co, Ni): New electrode materials for hybrid supercapacitor with layered polar structure. Journal of Power Sources, 2017, 359, 585-591.	4.0	15
2909	Cobalt-Based Active Species Molecularly Immobilized on Carbon Nanotubes for the Oxygen Reduction Reaction. ChemSusChem, 2017, 10, 3473-3481.	3.6	20
2910	Recent advances in the rational design of electrocatalysts towards the oxygen reduction reaction. Chinese Journal of Catalysis, 2017, 38, 951-969.	6.9	49
2912	X-ray nanotomography analysis of the microstructural evolution of LiMn ₂ O ₄ electrodes. Journal of Power Sources, 2017, 360, 460-469.	4.0	17
2914	Lithium ion, lithium metal, and alternative rechargeable battery technologies: the odyssey for high energy density. Journal of Solid State Electrochemistry, 2017, 21, 1939-1964.	1.2	787
2915	Highly active and durable nitrogen doped-reduced graphene oxide/double perovskite bifunctional hybrid catalysts. Journal of Materials Chemistry A, 2017, 5, 13019-13031.	5.2	45
2916	A durable polyvinyl butyral-CsH ₂ PO ₄ composite electrolyte for solid acid fuel cells. Journal of Power Sources, 2017, 359, 1-6.	4.0	9
2917	The synergistic effect of nitrogen doping and para-phenylenediamine functionalization on the physicochemical properties of reduced graphene oxide for electric double layer supercapacitors in organic electrolytes. Journal of Materials Chemistry A, 2017, 5, 12426-12434.	5.2	30
2918	Structural and Electrochemical Behaviour of Electro-deposited Ni Doped V ₂ O ₅ Thin Film on Quenched Stainless Steel Substrate.. Materials Today: Proceedings, 2017, 4, 3557-3564.	0.9	5
2919	Spinel-structured FeCo ₂ O ₄ mesoporous nanosheets as efficient electrode for supercapacitor applications. Microporous and Mesoporous Materials, 2017, 251, 26-33.	2.2	111

#	ARTICLE	IF	CITATIONS
2920	A Membrane-Free Neutral pH Formate Fuel Cell Enabled by a Selective Nickel Sulfide Oxygen Reduction Catalyst. <i>Angewandte Chemie</i> , 2017, 129, 7604-7607.	1.6	6
2921	A Membrane-Free Neutral pH Formate Fuel Cell Enabled by a Selective Nickel Sulfide Oxygen Reduction Catalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7496-7499.	7.2	42
2922	Lettuce-like, Hierarchically Porous and Nitrogen-Doped Carbon Catalyst: As a Superb non-Precious-Metal Oxygen Reduction Reaction Electrocatalyst in both Alkaline and Acidic Media. <i>ChemistrySelect</i> , 2017, 2, 4176-4186.	0.7	0
2923	In situ, facile synthesis of La _{0.8} Sr _{0.2} MnO ₃ /nitrogen-doped graphene: a high-performance catalyst for rechargeable Li-O ₂ batteries. <i>Ionics</i> , 2017, 23, 2241-2250.	1.2	14
2924	Electrochemical performance of 3D porous Ni-Co oxide with electrochemically exfoliated graphene for asymmetric supercapacitor applications. <i>Electrochimica Acta</i> , 2017, 246, 680-688.	2.6	31
2925	Functional flexible and wearable supercapacitors. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 273001.	1.3	31
2926	Construction of hollow Co ₃ O ₄ cubes as a high-performance anode for lithium ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 7960-7965.	1.4	28
2927	Design, Synthesis, and Characterization of Polyphosphazene Bearing Stable Nitroxide Radicals as Cathode-Active Materials in Li-Ion Batteries. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700051.	1.1	15
2928	Highly Doped Carbon Nanobelts with Ultrahigh Nitrogen Content as High-Performance Supercapacitor Materials. <i>Small</i> , 2017, 13, 1700834.	5.2	40
2929	Pseudocapacitive performance of manganese oxide coated hierarchical cobalt oxide structure prepared by hydrothermal process. <i>Ceramics International</i> , 2017, 43, S739-S746.	2.3	3
2930	Silicon Nanowire/Polymer Hybrid Solar Cell-Supercapacitor: A Self-Charging Power Unit with a Total Efficiency of 10.5%. <i>Nano Letters</i> , 2017, 17, 4240-4247.	4.5	149
2931	Simultaneous enhancements in stability and CO tolerance of Pt electrocatalyst by double poly(vinyl) Tj ETQq1 1 0.784314 rgBT / Over	1.7	14
2932	A self-convergence droop control of no communication based on double-quadrant state of charge in DC microgrid applications. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, .	0.8	12
2933	Carbon Nanomaterials for Applications on Supercapacitors. <i>MRS Advances</i> , 2017, 2, 3283-3289.	0.5	2
2934	Opening Two-Dimensional Materials for Energy Conversion and Storage: A Concept. <i>Advanced Energy Materials</i> , 2017, 7, 1602684.	10.2	304
2935	Behavior of electrical charge storage/release in polyaniline electrodes of symmetric supercapacitor. <i>Electrochimica Acta</i> , 2017, 245, 146-155.	2.6	34
2936	Effect of copper phthalocyanine (CuPc) on electrochemical hydrogen storage capacity of BaAl ₂ O ₄ /BaCO ₃ nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15308-15318.	3.8	45
2937	Multifunctional enhancement of woven carbon fiber/ZnO nanotube-based structural supercapacitor and polyester resin-domain solid-polymer electrolytes. <i>Chemical Engineering Journal</i> , 2017, 325, 672-680.	6.6	66

#	ARTICLE	IF	CITATIONS
2938	A rollable ultra-light polymer electrolyte membrane fuel cell. <i>NPG Asia Materials</i> , 2017, 9, e384-e384.	3.8	34
2939	Synthesis of rGO/PS compound with sandwich structure on Ni foam as binder-free electrode for supercapacitor. <i>Functional Materials Letters</i> , 2017, 10, 1750032.	0.7	7
2940	Fabrication and Characterization of Cross-linked Polybenzimidazole Based Membranes for High Temperature PEM Fuel Cells. <i>Electrochimica Acta</i> , 2017, 245, 1-13.	2.6	85
2941	Electrochemistry-mass spectrometry for mechanism study of oxygen reduction at water/oil interface. <i>Scientific Reports</i> , 2017, 7, 46669.	1.6	6
2942	Two-dimensional Covalent Organic Frameworks for Optoelectronics and Energy Storage. <i>ChemNanoMat</i> , 2017, 3, 373-391.	1.5	106
2943	Construct hierarchical electrode with Ni x Co 3-x S 4 nanosheet coated on NiCo 2 O 4 nanowire arrays grown on carbon fiber paper for high-performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2017, 359, 262-269.	4.0	117
2944	Preparation and characterization of N, S-codoped activated carbon-derived asphaltene used as electrode material for an electric double layer capacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 107-112.	2.3	26
2945	A flexible and portable powerpack by solid-state supercapacitor and dye-sensitized solar cell integration. <i>Journal of Power Sources</i> , 2017, 359, 311-321.	4.0	134
2946	Multiphase Porous Electrode Theory. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3291-E3310.	1.3	138
2947	Key factors improving oxygen reduction reaction activity in cobalt nanoparticles modified carbon nanotubes. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 303-312.	10.8	58
2948	Nitrogen/sulfur co-doping assisted chemical activation for synthesis of hierarchical porous carbon as an efficient electrode material for supercapacitors. <i>Electrochimica Acta</i> , 2017, 246, 59-67.	2.6	46
2949	Positron annihilation characteristics, water uptake and proton conductivity of composite Nafion membranes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15953-15961.	1.3	57
2950	Facile synthesis of NiAl layered double hydroxide nanoplates for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2017, 721, 803-812.	2.8	94
2951	Graphene-wrapped CNT@MoS ₂ hierarchical structure: synthesis, characterization and electrochemical application in supercapacitors. <i>New Journal of Chemistry</i> , 2017, 41, 7142-7150.	1.4	29
2952	Pt-doped TiO ₂ /WO ₃ bi-layer catalysts on graphite substrates with enhanced photoelectrocatalytic activity for methanol oxidation under visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 346, 70-76.	2.0	7
2953	Layered manganese-based metal-organic framework as a high capacity electrode material for supercapacitors. <i>RSC Advances</i> , 2017, 7, 29611-29617.	1.7	71
2954	Reliability of Constant Charge Method for Molecular Dynamics Simulations on EDLCs in Nanometer and Sub-nanometer Spaces. <i>ChemElectroChem</i> , 2017, 4, 2486-2493.	1.7	25
2955	Commercialized Benzoxazine Resin-Derived Porous Carbon as high Performance Electrode Materials for Supercapacitor. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017, 27, 1423-1429.	1.9	12

#	ARTICLE	IF	CITATIONS
2956	Electrode and electrolyte materials for electrochemical capacitors. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25565-25587.	3.8	93
2957	Synthesis of porous Mn ₂ O ₃ embedded in reduced graphene oxide as advanced anode materials for lithium storage. <i>New Journal of Chemistry</i> , 2017, 41, 7102-7107.	1.4	11
2958	Oxygen Reduction Reaction in Ionic Liquids: Fundamentals and Applications in Energy and Sensors. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3698-3715.	3.2	60
2959	Inkjet and Aerosol Jet Printing of Electrochemical Devices for Energy Conversion and Storage. <i>Advanced Engineering Materials</i> , 2017, 19, 1600878.	1.6	101
2960	Facile fabrication of plate-shaped hydrohausmannite as electrode material for supercapacitors. <i>Applied Surface Science</i> , 2017, 414, 68-72.	3.1	6
2961	Supercritical carbon dioxide extraction of electrolyte from spent lithium ion batteries and its characterization by gas chromatography with chemical ionization. <i>Journal of Power Sources</i> , 2017, 352, 56-63.	4.0	54
2962	Preparation of high performance supercapacitor materials by fast pyrolysis of corn gluten meal waste. <i>Sustainable Energy and Fuels</i> , 2017, 1, 891-898.	2.5	28
2963	Engineering radical polymer electrodes for electrochemical energy storage. <i>Journal of Power Sources</i> , 2017, 352, 226-244.	4.0	73
2964	An all-solid-state-supercapacitor possessing a non-aqueous gel polymer electrolyte prepared using a UV-assisted in situ polymerization strategy. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8461-8476.	5.2	83
2965	New class of two-dimensional bimetallic nanoplatelets for high energy density and electrochemically stable hybrid supercapacitors. <i>Nano Research</i> , 2017, 10, 3018-3034.	5.8	19
2966	Circuit synthesis of electrochemical supercapacitor models. <i>Journal of Energy Storage</i> , 2017, 10, 48-55.	3.9	28
2967	Ultrathin nitrogen doped carbon layer stabilized Pt electrocatalyst supported on N-doped carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10354-10362.	3.8	20
2968	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. <i>Nano Energy</i> , 2017, 35, 331-340.	8.2	324
2969	Peptide-FlgA3-Based Gold Palladium Bimetallic Nanoparticles That Catalyze the Oxygen Reduction Reaction in Alkaline Solution. <i>ChemCatChem</i> , 2017, 9, 2980-2987.	1.8	19
2970	Low-cost synthesis and electrochemical characteristics of ternary Cu-Co sulfides for high performance full-cell asymmetric supercapacitors. <i>Materials Research Bulletin</i> , 2017, 91, 68-76.	2.7	27
2971	Polymer materials for electrochemical applications: Processing in supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2017, 127, 229-246.	1.6	20
2972	2D quasi-ordered nitrogen and sulfur co-doped carbon materials from ionic liquid as metal-free electrocatalysts for ORR. <i>RSC Advances</i> , 2017, 7, 17941-17949.	1.7	22
2973	Pyridinic and graphitic nitrogen-rich graphene for high-performance supercapacitors and metal-free bifunctional electrocatalysts for ORR and OER. <i>RSC Advances</i> , 2017, 7, 17950-17958.	1.7	123

#	ARTICLE	IF	CITATIONS
2974	Formation of porous nitrogen-doped carbon-coating MnO nanospheres for advanced reversible lithium storage. <i>Nanoscale</i> , 2017, 9, 5451-5457.	2.8	65
2975	Polyaniline nanoflowers grown on vibration-isolator-mimetic polyurethane nanofibers for flexible supercapacitors with prolonged cycle life. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7933-7943.	5.2	45
2976	Shape and structural effects of R5-templated Pd nanomaterials as potent catalyst for oxygen electroreduction in alkaline media. <i>Journal of Materials Science</i> , 2017, 52, 8016-8026.	1.7	8
2977	One-pot solvothermal synthesis of ternary Ni-Co-P micro/nano-structured materials for high performance aqueous asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2017, 320, 376-388.	6.6	98
2978	Mn ₃ O ₄ /reduced graphene oxide nanocomposite electrodes with tailored morphology for high power supercapacitor applications. <i>Electrochimica Acta</i> , 2017, 236, 424-433.	2.6	57
2979	Design and simulation of a novel bipolar plate based on lung-shaped bio-inspired flow pattern for PEM fuel cell. <i>International Journal of Energy Research</i> , 2017, 41, 1730-1739.	2.2	50
2980	Composition-Dependent Pseudocapacitive Properties of Self-Supported Nickel-Based Nanobelts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7101-7107.	1.5	20
2981	Fe, Co bimetal activated N-doped graphitic carbon layers as noble metal-free electrocatalysts for high-performance oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2017, 710, 57-65.	2.8	52
2982	Multinuclear NMR Study of the Solid Electrolyte Interface Formed in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14741-14748.	4.0	47
2983	Precious Metal Catalysts for Sustainable Energy and Environmental Remediation. , 2017, , 211-251.		1
2984	Electrochemical performance of CuBi ₂ O ₄ nanoparticles synthesized via a polyacrylamide gel route. <i>International Journal of Materials Research</i> , 2017, 108, 298-307.	0.1	6
2985	Cabbage-like Ni(OH) ₂ with a good long-term cycling stability and high electrochemical performances for supercapacitor applications. <i>Chemical Physics Letters</i> , 2017, 677, 75-79.	1.2	31
2986	Nanofiber-based composite cathodes for intermediate temperature solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017, 353, 176-182.	4.0	44
2987	High-performance supercapacitors of carboxylate-modified hollow carbon nanospheres coated on flexible carbon fibre paper: Effects of oxygen-containing group contents, electrolytes and operating temperature. <i>Electrochimica Acta</i> , 2017, 238, 64-73.	2.6	23
2988	Structurally stable hollow mesoporous graphitized carbon nanofibers embedded with NiMoO ₄ nanoparticles for high performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2017, 238, 337-348.	2.6	78
2989	Self-Supported PtAuCu@Cu ₂ O/Pt Hybrid Nanobranched as a Robust Electrocatalyst for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2017, 4, 1554-1559.	1.7	11
2990	Electronic and Ionic Dynamics Coupled at Solid-Liquid Electrolyte Interfaces in Porous Nanocomposites of Carbon Black, Poly(vinylidene fluoride), and γ -Alumina. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8364-8377.	1.5	19
2991	Super-aligned carbon nanotube films with a thin metal coating as highly conductive and ultralight current collectors for lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 351, 160-168.	4.0	22

#	ARTICLE	IF	CITATIONS
2992	Tuning the electro-chemical properties by selectively substituting transition metals on carbon in Ni/Co oxide-carbon composite electrodes for supercapacitor devices. <i>New Journal of Chemistry</i> , 2017, 41, 3562-3573.	1.4	21
2993	Oxygen-incorporated MoS ₂ microspheres with tunable interiors as novel electrode materials for supercapacitors. <i>Journal of Power Sources</i> , 2017, 352, 135-142.	4.0	58
2994	Preparation of three-dimensional graphene foam for high performance supercapacitors. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 177-181.	1.8	56
2995	Synthesis of three-dimensional nitrogen-doped graphene/polyaniline hydrogels for high performance supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10674-10683.	1.1	36
2996	Synthesis and characterization of hollow V ₂ O ₅ microspheres for supercapacitor electrode with pseudocapacitance. <i>Materials Science-Poland</i> , 2017, 35, 188-196.	0.4	13
2997	Carbon nanotube supported PdAg nanoparticles for electrocatalytic oxidation of glycerol in anion exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 121-130.	10.8	110
2998	Ternary Ni-Co-Nanocrystal-Based Supercapacitors. <i>Chemistry - A European Journal</i> , 2017, 23, 6896-6904.	1.7	36
2999	Phthalonitrile-terminated sulfonated poly(arylene ether nitrile)s for direct methanol fuel cells (DMFCs) application. <i>Ionics</i> , 2017, 23, 1035-1041.	1.2	6
3000	Steam reforming of methanol over oxide decorated nanoporous gold catalysts: a combined in situ FTIR and flow reactor study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8880-8888.	1.3	37
3001	Controllable MnCo ₂ S ₄ nanostructures for high performance hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7494-7506.	5.2	198
3002	Mechanistic Evolution of Aprotic Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602934.	10.2	130
3003	Facile synthesis of cobalt hexacyanoferrate/graphene nanocomposites for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2017, 235, 114-121.	2.6	77
3004	Recent progress in layered metal dichalcogenide nanostructures as electrodes for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7667-7690.	5.2	144
3005	Efficient noble metal nanocatalysts supported on HfC(001) for O ₂ dissociation. <i>AIP Advances</i> , 2017, 7, .	0.6	6
3006	Improving biomass-derived carbon by activation with nitrogen and cobalt for supercapacitors and oxygen reduction reaction. <i>Applied Surface Science</i> , 2017, 411, 251-260.	3.1	81
3007	A new concept of charging supercapacitors based on the photovoltaic effect. <i>Chemical Communications</i> , 2017, 53, 709-712.	2.2	53
3008	Three-Dimensional Fibrous Network of Na _{0.21} MnO ₂ for Aqueous Sodium-Ion Hybrid Supercapacitors. <i>Chemistry - A European Journal</i> , 2017, 23, 2379-2386.	1.7	58
3009	Microwave assisted fabrication of a nanostructured reduced graphene oxide (rGO)/Fe ₂ O ₃ composite as a promising next generation energy storage material. <i>RSC Advances</i> , 2017, 7, 309-317.	1.7	74

#	ARTICLE	IF	CITATIONS
3010	Polypyrrole composites with carbon materials for supercapacitors. <i>Chemical Papers</i> , 2017, 71, 293-316.	1.0	49
3011	Tuning the interlayer of transition metal oxides for electrochemical energy storage. <i>Journal of Materials Research</i> , 2017, 32, 2-15.	1.2	67
3012	Facile synthesis of Ni ₃ S ₂ and Co ₉ S ₈ double-size nanoparticles decorated on rGO for high-performance supercapacitor electrode materials. <i>Electrochimica Acta</i> , 2017, 226, 69-78.	2.6	101
3013	Morphology, composition and electrochemistry of a nano-porous silicon versus bulk silicon anode for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 3670-3677.	1.7	21
3014	Facile synthesis of Co@WO ₃ /functionalized carbon nanotube nanocomposites for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5425-5434.	1.1	20
3015	Highly methanol-tolerant platinum electrocatalyst derived from poly(vinylpyrrolidone) coating. <i>Nanotechnology</i> , 2017, 28, 055404.	1.3	7
3016	Stable Electrolyte for High Voltage Electrochemical Double-Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2017, 164, A277-A283.	1.3	25
3017	Single Pd atoms supported by graphitic carbon nitride, a potential oxygen reduction reaction catalyst from theoretical perspective. <i>Carbon</i> , 2017, 114, 619-627.	5.4	78
3018	Molybdenum carbide nanoparticles embedded in nitrogen-doped porous carbon nanofibers as a dual catalyst for hydrogen evolution and oxygen reduction reactions. <i>Carbon</i> , 2017, 114, 628-634.	5.4	94
3019	Theoretical and mechanistic aspects of proton-coupled electron transfer in electrochemistry. <i>Current Opinion in Electrochemistry</i> , 2017, 1, 104-109.	2.5	20
3020	Supramolecular Nanofibers as Ambient Stable Wide Voltage Window Electrolyte for Micro-Supercapacitors. <i>ChemNanoMat</i> , 2017, 3, 39-43.	1.5	5
3021	Pt nanoparticles deposited on dihydroxy-polybenzimidazole wrapped carbon nanotubes shows a remarkable durability in methanol electro-oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 507-514.	3.8	23
3022	Synchrotron-based x-ray absorption spectroscopy for the electronic structure of Li _x Mn _{0.8} Fe _{0.2} PO ₄ mesocrystal in Li + batteries. <i>Nano Energy</i> , 2017, 31, 495-503.	8.2	28
3023	Scalable Self-Propagating High-Temperature Synthesis of Graphene for Supercapacitors with Superior Power Density and Cyclic Stability. <i>Advanced Materials</i> , 2017, 29, 1604690.	11.1	186
3024	Synthesis and Electrochemical Properties of Hierarchically Porous Zn(Co _{1-x} Mn _x) ₂ O ₄ Anodes for Li-Ion Batteries. <i>Energy Technology</i> , 2017, 5, 1526-1535.	1.8	11
3025	Materials for Electrochemical Capacitors. , 2017, , 495-561.		25
3026	A pore-expansion strategy to synthesize hierarchically porous carbon derived from metal-organic framework for enhanced oxygen reduction. <i>Carbon</i> , 2017, 114, 284-290.	5.4	92
3027	Different distribution of in-situ thin carbon layer in hollow cobalt sulfide nanocages and their application for supercapacitors. <i>Journal of Power Sources</i> , 2017, 341, 294-301.	4.0	126

#	ARTICLE	IF	CITATIONS
3028	Fe ^N -moiety-modified hierarchically porous carbons derived from porphyrin for highly effective oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1526-1532.	5.2	60
3029	Highly active and stable single iron site confined in graphene nanosheets for oxygen reduction reaction. <i>Nano Energy</i> , 2017, 32, 353-358.	8.2	234
3030	Facile approach for synthesis of doped carbon electrocatalyst from cellulose nanofibrils toward high-performance metal-free oxygen reduction and hydrogen evolution. <i>Nano Energy</i> , 2017, 32, 336-346.	8.2	132
3031	A novel high performance poly (2-methyl thioaniline) based composite electrode for supercapacitors application. <i>Carbon</i> , 2017, 115, 175-187.	5.4	19
3032	Template-free synthesis of hierarchical mixed-metal cobaltites: Electrocapacitive and Theoretical study. <i>Electrochimica Acta</i> , 2017, 225, 514-524.	2.6	26
3033	The structural and electrical properties of samarium doped ceria films formed by e-beam deposition technique. <i>Solid State Ionics</i> , 2017, 302, 107-112.	1.3	8
3034	Molybdenum-Doped PdPt@Pt Core-Shell Octahedra Supported by Ionic Block Copolymer-Functionalized Graphene as a Highly Active and Durable Oxygen Reduction Electrocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1524-1535.	4.0	49
3035	Porous cellulose/graphene oxide nanocomposite as flexible and renewable electrode material for supercapacitor. <i>Synthetic Metals</i> , 2017, 223, 94-100.	2.1	66
3036	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1601578.	10.2	120
3037	Facile preparation, optical and electrochemical properties of layer-by-layer V ₂ O ₅ quadrate structures. <i>Applied Surface Science</i> , 2017, 399, 151-159.	3.1	54
3038	Dielectric Properties of Organic Solvents in an Electric Field. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1025-1031.	1.5	47
3039	Ultrafine Co-based Nanoparticle@Mesoporous Carbon Nanospheres toward High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1746-1758.	4.0	69
3040	Energy storage through intercalation reactions: electrodes for rechargeable batteries. <i>National Science Review</i> , 2017, 4, 26-53.	4.6	122
3041	Multiscale Morphological and Electrical Characterization of Charge Transport Limitations to the Power Performance of Positive Electrode Blends for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602239.	10.2	69
3042	Mechanism and kinetics of the electrocatalytic reaction responsible for the high cost of hydrogen fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2666-2673.	1.3	43
3043	Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene. <i>Progress in Polymer Science</i> , 2017, 67, 1-47.	11.8	491
3044	An Electrodeposited NiSe for Electrocatalytic Hydrogen and Oxygen Evolution Reactions in Alkaline Solution. <i>Electrochimica Acta</i> , 2017, 224, 412-418.	2.6	130
3045	Synthesis of Cobalt Sulfide-Graphene as an Efficient Oxygen Reduction Catalyst in Alkaline Medium and Its Application in Anion Exchange Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F71-F80.	1.3	29

#	ARTICLE	IF	CITATIONS
3046	Constructing optimized three-dimensional electrochemical interface in carbon nanofiber/carbon nanotube hierarchical composites for high-energy-density supercapacitors. <i>Carbon</i> , 2017, 111, 502-512.	5.4	47
3047	Facile method to prepare 3D foam-like MnO ₂ film/multilayer graphene film/Ni foam hybrid structure for flexible supercapacitors. <i>Journal of Alloys and Compounds</i> , 2017, 696, 1159-1167.	2.8	27
3048	Energy management control strategy to improve the FC/SC dynamic behavior on hybrid electric vehicles: A frequency based distribution. <i>Renewable Energy</i> , 2017, 105, 407-418.	4.3	32
3049	Layer-structured nanohybrid MoS ₂ @rGO on 3D nickel foam for high performance energy storage applications. <i>New Journal of Chemistry</i> , 2017, 41, 1473-1482.	1.4	65
3050	Enhanced performance of sulfonated poly (ether ether ketone) membranes by blending fully aromatic polyamide for practical application in direct methanol fuel cells (DMFCs). <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28567-28577.	3.8	45
3051	Tailoring the chemistry of blend copolymers boosting the electrochemical performance of Si-based anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24159-24167.	5.2	28
3052	Hierarchically Porous Carbon Derived from PolyHIPE for Supercapacitor and Deionization Applications. <i>Langmuir</i> , 2017, 33, 13364-13375.	1.6	61
3053	Reliability of Constant Charge Method for Molecular Dynamics Simulations on EDLCs in Nanometer and Sub-Nanometer Spaces. <i>ChemElectroChem</i> , 2017, 4, 2427-2427.	1.7	1
3054	Ultraflexible and tailorable all-solid-state supercapacitors using polyacrylamide-based hydrogel electrolyte with high ionic conductivity. <i>Nanoscale</i> , 2017, 9, 18474-18481.	2.8	79
3055	Using Polymeric Ionic Liquids as an Active Binder in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3253-A3258.	1.3	7
3056	Biliquid Supercapacitors: a Simple and New Strategy to Enhance Energy Density in Asymmetric/Hybrid Devices. <i>Electrochimica Acta</i> , 2017, 254, 384-392.	2.6	16
3057	Synthesis of W ₂ N nanorods-graphene hybrid structure with enhanced oxygen reduction reaction performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25924-25932.	3.8	14
3058	Time-dependent global sensitivity analysis with active subspaces for a lithium ion battery model. <i>Statistical Analysis and Data Mining</i> , 2017, 10, 243-262.	1.4	28
3059	Relevance of the Interaction between the M-Phthalocyanines and Carbon Nanotubes in the Electroactivity toward ORR. <i>Langmuir</i> , 2017, 33, 11945-11955.	1.6	27
3060	Synthesis of ZnSb@C microflower composites and their enhanced electrochemical performance for lithium-ion and sodium-ion batteries. <i>New Journal of Chemistry</i> , 2017, 41, 13060-13066.	1.4	18
3061	Facile synthesis and characterization of rough surface V_2O_5 nanomaterials for pseudo-supercapacitor electrode material with high capacitance. <i>Bulletin of Materials Science</i> , 2017, 40, 1137-1149.	0.8	18
3062	Honeycomb-like metallic nickel selenide nanosheet arrays as binder-free electrodes for high-performance hybrid asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22527-22535.	5.2	141
3063	The electrochemical confrontation between CoP microflake and Co ₃ O ₄ microsphere via a similar synthesis process as anodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 728, 910-916.	2.8	12

#	ARTICLE	IF	CITATIONS
3064	DFT investigation of the interaction between single-walled carbon nanotubes and fluorene-based conjugated oligomers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28071-28082.	1.3	7
3065	Platinum-free, graphene based anodes and air cathodes for single chamber microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23872-23886.	5.2	45
3066	A proton-hopping charge storage mechanism of ionic one-dimensional coordination polymers for high-performance supercapacitors. <i>Chemical Communications</i> , 2017, 53, 11786-11789.	2.2	11
3067	Squid Ink-Assisted Fabricating MoS ₂ Nanosheets/Ultrafine Biocarbon Spheres Composites with an Enhanced Lithium Ion Storage Performance. <i>ChemistrySelect</i> , 2017, 2, 8643-8649.	0.7	7
3068	Preparation of N, P co-doped activated carbons derived from honeycomb as an electrode material for supercapacitors. <i>RSC Advances</i> , 2017, 7, 47448-47455.	1.7	29
3069	Self-Templated Synthesis of Porous Ni(OH) ₂ Nanocube and Its High Electrochemical Performance for Supercapacitor. <i>Langmuir</i> , 2017, 33, 12087-12094.	1.6	30
3070	Ag, Co/graphene interactions and its effect on electrocatalytic oxygen reduction in alkaline media. <i>Journal of Power Sources</i> , 2017, 370, 1-13.	4.0	19
3071	From covalent triazine-based frameworks to N-doped porous carbon/reduced graphene oxide nanosheets: efficient electrocatalysts for oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23170-23178.	5.2	60
3072	Design of 3D Graphene-Oxide Spheres and Their Derived Hierarchical Porous Structures for High Performance Supercapacitors. <i>Small</i> , 2017, 13, 1702474.	5.2	42
3073	Hierarchical porous carbon spheres constructed from coal as electrode materials for high performance supercapacitors. <i>RSC Advances</i> , 2017, 7, 45363-45368.	1.7	24
3074	Facile synthesis of CuFe ₂ O ₄ @Fe ₂ O ₃ composite for high-performance supercapacitor electrode applications. <i>Materials Research Express</i> , 2017, 4, 105501.	0.8	22
3075	Synthesis, characterization and supercapacitive performances of yttrium doped cobalt oxide films. <i>Journal of the Korean Physical Society</i> , 2017, 71, 404-407.	0.3	5
3076	Strain-controlled electrocatalysis on multimetallic nanomaterials. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	727
3077	Emerging crystalline porous materials as a multifunctional platform for electrochemical energy storage. <i>Chemical Society Reviews</i> , 2017, 46, 6927-6945.	18.7	347
3078	Ambient-Temperature Energy Storage with Polyvalent Metal-Sulfur Chemistry. <i>Small Methods</i> , 2017, 1, 1700217.	4.6	38
3079	N-doped carbon-coated TiN exhibiting excellent electrochemical performance for supercapacitors. <i>Electrochimica Acta</i> , 2017, 257, 56-63.	2.6	40
3080	Amorphous carbon coated multiwalled carbon nanotubes@transition metal sulfides composites as high performance anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2017, 257, 20-30.	2.6	53
3081	Hierarchical mesoporous Co ₃ O ₄ /C@MoS ₂ core-shell structured materials for electrochemical energy storage with high supercapacitive performance. <i>Synthetic Metals</i> , 2017, 233, 101-110.	2.1	37

#	ARTICLE	IF	CITATIONS
3082	Single-Layered Mesoporous Carbon Sandwiched Graphene Nanosheets for High Performance Ionic Liquid Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23947-23954.	1.5	12
3083	The Pine-Needle-Inspired Structure of Zinc Oxide Nanorods Grown on Electrospun Nanofibers for High-Performance Flexible Supercapacitors. <i>Small</i> , 2017, 13, 1702142.	5.2	35
3084	<i>In situ</i> nitrogen-doped mesoporous carbon nanofibers as flexible freestanding electrodes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23620-23627.	5.2	95
3085	Reduced Graphene Oxide/LiI Composite Lithium Ion Battery Cathodes. <i>Nano Letters</i> , 2017, 17, 6893-6899.	4.5	67
3086	Low-cost sonochemical synthesis of nitrogen-doped graphene metal-free electrocatalyst for the oxygen reduction reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 30330-30338.	3.8	16
3087	Facile synthesis of high-performance Ni(OH) ₂ /expanded graphite electrodes for asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18022-18030.	1.1	17
3088	Mesoporous activated carbon materials with ultrahigh mesopore volume and effective specific surface area for high performance supercapacitors. <i>Carbon</i> , 2017, 124, 64-71.	5.4	172
3089	3D printing technologies for electrochemical energy storage. <i>Nano Energy</i> , 2017, 40, 418-431.	8.2	351
3090	A Tutorial into Practical Capacity and Mass Balancing of Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2479-A2486.	1.3	143
3091	In Situ TEM Investigation of the Electrochemical Behavior in CNTs/MnO ₂ -Based Energy Storage Devices. <i>Analytical Chemistry</i> , 2017, 89, 9671-9675.	3.2	10
3092	Ultrathin petal-like NiAl layered double oxide/sulfide composites as an advanced electrode for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19687-19696.	5.2	151
3093	Current Progress on Rechargeable Magnesium-Air Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1700869.	10.2	144
3094	Stable CO anti-poisoning and high durability of a Pt electrocatalyst supported on carbon nanotubes. <i>RSC Advances</i> , 2017, 7, 39767-39772.	1.7	7
3095	Performance of MOF-Derived Spinel Type Ni ₃ Co ₃ O ₄ Nanocages in Efficient Methanol Electro-Oxidation. <i>ChemElectroChem</i> , 2017, 4, 2989-2996.	1.7	28
3096	Charge storage at the nanoscale: understanding the trends from the molecular scale perspective. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21049-21076.	5.2	58
3097	Bis(aryl) Tetrasulfides as Cathode Materials for Rechargeable Lithium Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 16941-16947.	1.7	56
3098	<i>Alfa</i> Leaf-Derived Porous Heteroatom-Doped Carbon Materials as Efficient Cathodic Catalysts in Microbial Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9766-9773.	3.2	66
3099	Assembling Hollow Cobalt Sulfide Nanocages Array on Graphene-like Manganese Dioxide Nanosheets for Superior Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35040-35047.	4.0	107

#	ARTICLE	IF	CITATIONS
3101	Two-Dimensional Graphene-Gold Interfaces Serve as Robust Templates for Dielectric Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 34213-34220.	4.0	28
3102	Electrochemical Biosensors. Bioanalysis, 2017, , 27-66.	0.1	0
3103	Enhanced electrocatalysis performance of amorphous electrolytic carbon from CO ₂ for oxygen reduction by surface modification in molten salt. Electrochimica Acta, 2017, 253, 248-256.	2.6	17
3104	Graphdiyne Nanowalls as Anode for Lithium-Ion Batteries and Capacitors Exhibit Superior Cyclic Stability. Electrochimica Acta, 2017, 253, 506-516.	2.6	68
3105	Three-Dimensional NiCo ₂ O ₄ @MnMoO ₄ Core-Shell Nanoarrays for High-Performance Asymmetric Supercapacitors. Langmuir, 2017, 33, 10446-10454.	1.6	90
3106	On the key role of Dy ³⁺ in spinel LiMn ₂ O ₄ cathodes for Li-ion rechargeable batteries. Journal of Electroanalytical Chemistry, 2017, 802, 94-99.	1.9	12
3107	An ordered structured cathode based on vertically aligned Pt nanotubes for ultra-low Pt loading passive direct methanol fuel cells. Electrochimica Acta, 2017, 252, 541-548.	2.6	24
3108	Identification of the active sites in sulfur-doped graphene for oxygen reduction reaction: The key role of dissociated O ₂ adsorption. Solid State Communications, 2017, 267, 33-38.	0.9	10
3109	PdZn nanoparticle electrocatalysts synthesized by solution combustion for methanol oxidation reaction in an alkaline medium. RSC Advances, 2017, 7, 42709-42717.	1.7	22
3110	Nanostructured binary and ternary metal sulfides: synthesis methods and their application in energy conversion and storage devices. Journal of Materials Chemistry A, 2017, 5, 22040-22094.	5.2	341
3111	Multidimensional performance optimization of conducting polymer-based supercapacitor electrodes. Sustainable Energy and Fuels, 2017, 1, 1857-1874.	2.5	133
3112	Rational Development of Neutral Aqueous Electrolytes for Zinc-Air Batteries. ChemSusChem, 2017, 10, 4735-4747.	3.6	77
3113	Synergistic Conductivity Effect in a Proton Sources-Coupled Metal-Organic Framework. ACS Energy Letters, 2017, 2, 2313-2318.	8.8	170
3114	Flexible Zn-air and Li-air batteries: recent advances, challenges, and future perspectives. Energy and Environmental Science, 2017, 10, 2056-2080.	15.6	477
3115	Atomic-layer-deposited ultrathin Co ₉ S ₈ on carbon nanotubes: an efficient bifunctional electrocatalyst for oxygen evolution/reduction reactions and rechargeable Zn-air batteries. Journal of Materials Chemistry A, 2017, 5, 21353-21361.	5.2	97
3116	Bimetallic Co-Mn Perovskite Fluorides as Highly Stable Electrode Materials for Supercapacitors. Chemistry - A European Journal, 2017, 23, 15305-15311.	1.7	51
3117	Facile Fabrication of Urchin-like Polyaniline Microspheres for Electrochemical Energy Storage. Electrochimica Acta, 2017, 254, 25-35.	2.6	34
3118	Solid state synthesis of Li _{0.33} MnO ₂ as positive electrode material for highly stable 2V aqueous hybrid supercapacitors. Electrochimica Acta, 2017, 254, 155-164.	2.6	9

#	ARTICLE	IF	CITATIONS
3119	FeNi ₂ Se ₄ —Reduced Graphene Oxide Nanocomposite: Enhancing Bifunctional Electrocatalytic Activity for Oxygen Evolution and Reduction through Synergistic Effects. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700086.	2.7	35
3120	A Facile and Versatile Electrochemical Tuning of Graphene for Oxygen Reduction Reaction in Acidic, Neutral and Alkali media. <i>ChemistrySelect</i> , 2017, 2, 8541-8552.	0.7	2
3121	Rechargeable aqueous zinc-manganese dioxide batteries with high energy and power densities. <i>Nature Communications</i> , 2017, 8, 405.	5.8	1,224
3122	Synthesis of a hierarchical cobalt sulfide/cobalt basic salt nanocomposite via a vapor-phase hydrothermal method as an electrode material for supercapacitor. <i>New Journal of Chemistry</i> , 2017, 41, 12147-12152.	1.4	11
3123	A first principles study of spinel ZnFe ₂ O ₄ for electrode materials in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26322-26329.	1.3	45
3124	Catalytic performance of hybrid Pt@ZnO NRs on carbon fibers for methanol electro-oxidation. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 1871-1876.	1.7	6
3125	CoSb ₃ alloy nanoparticles wrapped with N-doped carbon layers as a highly active bifunctional electrocatalyst for zinc-air batteries. <i>RSC Advances</i> , 2017, 7, 33012-33019.	1.7	8
3126	Edge-Abundant Porous Fe ₃ O ₄ Nanoparticles Docking in Nitrogen-Rich Graphene Aerogel as Efficient and Durable Electrocatalyst for Oxygen Reduction. <i>ChemElectroChem</i> , 2017, 4, 2442-2447.	1.7	33
3127	Nitrogen-doped 3D flower-like carbon materials derived from polyimide as high-performance anode materials for lithium-ion batteries. <i>Applied Surface Science</i> , 2017, 425, 1082-1088.	3.1	44
3128	Three-dimensional radial MnO ₂ synthesized from different redox potential for bifunctional oxygen electrocatalytic activities. <i>Journal of Power Sources</i> , 2017, 362, 332-341.	4.0	75
3129	Lithium ion battery cells under abusive discharge conditions: Electrode potential development and interactions between positive and negative electrode. <i>Journal of Power Sources</i> , 2017, 362, 278-282.	4.0	52
3130	Excellent electrocatalytic effects of tin through in situ electrodeposition on the performance of all-vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17388-17400.	5.2	62
3131	Rational Design of Three-Layered TiO ₂ @Carbon@MoS ₂ Hierarchical Nanotubes for Enhanced Lithium Storage. <i>Advanced Materials</i> , 2017, 29, 1702724.	11.1	300
3132	Formation of Single-Holed Cobalt/N-Doped Carbon Hollow Particles with Enhanced Electrocatalytic Activity toward Oxygen Reduction Reaction in Alkaline Media. <i>Advanced Science</i> , 2017, 4, 1700247.	5.6	194
3133	High Durability and Performance of a Platinum Electrocatalyst Supported on Sulfonated Macromolecules Coated Carbon Nanotubes. <i>ChemCatChem</i> , 2017, 9, 4005-4012.	1.8	5
3134	Redox Processes of Manganese Oxide in Catalyzing Oxygen Evolution and Reduction: An <i>in Situ</i> Soft X-ray Absorption Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17682-17692.	1.5	138
3135	Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layer-Structured Nanodisks beyond Graphene. <i>Advanced Materials</i> , 2017, 29, 1701704.	11.1	65
3136	Highly Nanoporous Nickel Cobaltite Hexagonal Nanostructure-Graphene Composites for the Next Generation Energy Storage/Conversion Devices. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700219.	1.9	10

#	ARTICLE	IF	CITATIONS
3137	Evaluation of poly(4-methyl-1-pentene) as a dielectric capacitor film for high-temperature energy storage applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1497-1515.	2.4	17
3138	Aluminum-based materials for advanced battery systems. <i>Science China Materials</i> , 2017, 60, 577-607.	3.5	5
3139	Assembled graphene nanotubes decorated by hierarchical MoS ₂ structures: Enhanced lithium storage and in situ TEM lithiation study. <i>Energy Storage Materials</i> , 2017, 9, 188-194.	9.5	21
3140	Nitrogen doped carbon layer coated platinum electrocatalyst supported on carbon nanotubes with enhanced stability. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16773-16781.	3.8	13
3141	TEOA-mediated formation of hollow core-shell structured CoNi ₂ S ₄ nanospheres as a high-performance electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2017, 362, 123-130.	4.0	21
3142	Synthesis of highly proton-conductive poly(arylene ether sulfone) bearing perfluoroalkyl sulfonic acids via polymer post-modification. <i>Polymer</i> , 2017, 123, 345-354.	1.8	9
3143	Layer-type palladium phosphosulphide and its reduced graphene oxide composite as electrode materials for metal-ion batteries. <i>Journal of Power Sources</i> , 2017, 362, 80-85.	4.0	12
3144	Overlapping and rate controlling electrochemical reactions for tin(IV) oxide electrodes in lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 47-60.	1.9	14
3145	Insights on the delithiation/lithiation reactions of LiMn _{0.8} Fe _{0.2} PO ₄ mesocrystals in Li ⁺ batteries by in situ techniques. <i>Nano Energy</i> , 2017, 39, 371-379.	8.2	41
3146	Elemental analysis of lithium ion batteries. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1833-1847.	1.6	46
3147	Hydrothermal Synthesis of ZnNiS Nanosheets for Hybrid Supercapacitor Applications. <i>ChemPlusChem</i> , 2017, 82, 1145-1152.	1.3	15
3148	Assembly of highly stable aqueous dispersions and flexible films of nitrogen-doped graphene for high-performance stretchable supercapacitors. <i>Journal of Materials Science</i> , 2017, 52, 12751-12760.	1.7	4
3149	In-situ synthesized ZnFe ₂ O ₄ firmly anchored to the surface of MWCNTs as a long-life anode material with high lithium storage performance. <i>Applied Surface Science</i> , 2017, 425, 978-987.	3.1	32
3150	Copper Chromite-Polyaniline Nanocomposite: An Advanced Electrode Material for High Performance Energy Storage. <i>Electrochimica Acta</i> , 2017, 248, 486-495.	2.6	8
3151	Ultra-high Ionic Conduction in Water-Stable Close-Packed Metal-Carbonate Frameworks. <i>Inorganic Chemistry</i> , 2017, 56, 9710-9715.	1.9	1
3152	Full picture discovery for mixed-fluorine anion effects on high-voltage spinel lithium nickel manganese oxide cathodes. <i>NPG Asia Materials</i> , 2017, 9, e398-e398.	3.8	22
3153	An excellent strategy for synthesis of coral-like ZnFe ₂ O ₄ particles for capacitive pseudocapacitors. <i>Journal of Alloys and Compounds</i> , 2017, 726, 154-163.	2.8	18
3154	Ultra-high cycling stability of poly(vinylphenothiazine) as a battery cathode material resulting from π-π interactions. <i>Energy and Environmental Science</i> , 2017, 10, 2334-2341.	15.6	194

#	ARTICLE	IF	CITATIONS
3155	Perovskite $\text{KNi}_{0.8}\text{Co}_{0.2}\text{F}_3$ nanocrystals for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17822-17827.	5.2	48
3156	Revealing the importance of nitrogen doping site in enhancing the oxygen reduction reaction on P^2 -graphyne. <i>Carbon</i> , 2017, 123, 415-420.	5.4	37
3157	Electrophoretic deposition of activated carbon YP-50 with ethyl cellulose binders for supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2017, 13, 206-210.	3.9	21
3158	A novel hierarchical porous nitrogen-doped carbon derived from bamboo shoot for high performance supercapacitor. <i>Scientific Reports</i> , 2017, 7, 7362.	1.6	84
3159	Battery modeling and Kalman filter-based State-of-Charge estimation for a race car application. , 2017, , .		0
3160	A Novel Phase Transformation Activation Process toward $\text{Ni}^{\text{Mn}}\text{O}$ Nanoprism Arrays for 2.4 V Ultrahigh Voltage Aqueous Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1703463.	11.1	238
3161	Electrochemical Energy Storage: Current and Emerging Technologies. , 2017, , 1695-1727.		5
3162	1,2,3-Triazole mediated Li^+ ion conductivity in poly(ethylene oxide) based electrolytes. <i>Solid State Ionics</i> , 2017, 309, 163-169.	1.3	12
3163	Enhanced tortuosity for electrolytes in microwave irradiated self-organized carbon-doped Ni/Co hydroxide nanocomposite electrodes with higher Ni/Co atomic ratio and rate capability for an asymmetric supercapacitor. <i>Nanotechnology</i> , 2017, 28, 445405.	1.3	6
3164	$\text{FeFe}(\text{CN})_6$ Nanocubes as a Bipolar Electrode Material in Aqueous Symmetric Sodium Ion Batteries. <i>ChemPlusChem</i> , 2017, 82, 1170-1173.	1.3	24
3165	Electrochemical comparison of LiFePO_4 synthesized by a solid-state method using either microwave heating or a tube furnace. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 1179-1188.	1.5	15
3166	Enabling high-rate electrochemical flow capacitors based on mesoporous carbon microspheres suspension electrodes. <i>Journal of Power Sources</i> , 2017, 364, 182-190.	4.0	19
3167	Charge storage performances and mechanisms of MnO_2 nanospheres, nanorods, nanotubes and nanosheets. <i>Nanoscale</i> , 2017, 9, 13630-13639.	2.8	74
3168	An overview of molecular layer deposition for organic and organic-inorganic hybrid materials: mechanisms, growth characteristics, and promising applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18326-18378.	5.2	187
3169	Structurally Stable Mesoporous Hierarchical NiMoO_4 Hollow Nanofibers for Asymmetric Supercapacitors with Enhanced Capacity and Improved Cycling Stability. <i>ChemElectroChem</i> , 2017, 4, 3331-3339.	1.7	29
3170	Ultrathin BiOX ($X = \text{Cl}, \text{Br}, \text{I}$) Nanosheets as Al-air Battery Catalysts. <i>Electrochimica Acta</i> , 2017, 249, 413-420.	2.6	11
3171	Co_3O_4 Nanowires on Flexible Carbon Fabric as a Binder-Free Electrode for All Solid-State Symmetric Supercapacitor. <i>ACS Omega</i> , 2017, 2, 4216-4226.	1.6	76
3172	LiFePO_4 / AC Composite Cathodes - Long Term Cycle Life Study and Capacity Sharing Analysis. <i>ECS Transactions</i> , 2017, 77, 3-18.	0.3	3

#	ARTICLE	IF	CITATIONS
3173	Highly porous carbon with large electrochemical ion absorption capability for high-performance supercapacitors and ion capacitors. <i>Nanotechnology</i> , 2017, 28, 445406.	1.3	13
3174	Metal-organic frameworks and their derived materials for electrochemical energy storage and conversion: Promises and challenges. <i>Science Advances</i> , 2017, 3, eaap9252.	4.7	824
3175	Solid polymer electrolyte based on ionic bond or covalent bond functionalized silica nanoparticles. <i>RSC Advances</i> , 2017, 7, 54986-54994.	1.7	26
3176	Bidirectional Correlation between Mechanics and Electrochemistry of Poly(vinyl alcohol)-Based Gel Polymer Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6106-6112.	2.1	7
3177	A multifunctional battery module design for electric vehicle. <i>Journal of Modern Transportation</i> , 2017, 25, 218-222.	2.5	2
3178	N-doped ordered mesoporous carbon/graphene composites with supercapacitor performances fabricated by evaporation induced self-assembly. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29820-29829.	3.8	45
3179	Tin-based materials supported on nitrogen-doped reduced graphene oxide towards their application in lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 53126-53134.	1.7	10
3180	Importance of Electrode Preparation Methodologies in Supercapacitor Applications. <i>ACS Omega</i> , 2017, 2, 8039-8050.	1.6	139
3181	Synthesis of graphene wrapped porous CoMoO ₄ nanospheres as high-performance anodes for rechargeable lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 51506-51511.	1.7	29
3182	Surface-coating synthesis of nitrogen-doped inverse opal carbon materials with ultrathin micro/mesoporous graphene-like walls for oxygen reduction and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25237-25248.	5.2	32
3183	Preparation and properties of solid polymer electrolyte based on imidazolium-based ionic liquids for structural capacitors. <i>Fibers and Polymers</i> , 2017, 18, 1452-1458.	1.1	10
3184	Effect of grain size on the electrochemical behavior of pure magnesium anode. <i>Journal of Magnesium and Alloys</i> , 2017, 5, 404-411.	5.5	55
3185	Engineered architecture of nitrogenous graphene encapsulating porous carbon with nano-channel reactors enhancing the PEM fuel cell performance. <i>Nano Energy</i> , 2017, 42, 249-256.	8.2	41
3186	Electrodeposited nickel-cobalt sulfide nanosheet on polyacrylonitrile nanofibers: a binder-free electrode for flexible supercapacitors. <i>Materials Research Express</i> , 2017, 4, 116309.	0.8	26
3187	Microwave-assisted synthesis of novel nanostructured Zn ₃ (OH) ₂ V ₂ O ₇ ·2H ₂ O and Zn ₂ V ₂ O ₇ as electrode materials for supercapacitors. <i>New Journal of Chemistry</i> , 2017, 41, 15298-15304.	1.4	39
3188	Nanostructured materials: A progressive assessment and future direction for energy device applications. <i>Coordination Chemistry Reviews</i> , 2017, 353, 113-141.	9.5	37
3189	Perovskites in catalysis and electrocatalysis. <i>Science</i> , 2017, 358, 751-756.	6.0	1,138
3190	Buffer layer enhanced stability of sodium-ion storage. <i>Journal of Power Sources</i> , 2017, 369, 138-145.	4.0	28

#	ARTICLE	IF	CITATIONS
3191	Preliminary study of dysprosium doped LiMn ₂ O ₄ spinel cathode materials. <i>Materials Today: Proceedings</i> , 2017, 4, 9365-9370.	0.9	7
3192	Synthesis of Copper Oxide/Graphite Composite for High-Performance Rechargeable Battery Anode. <i>Chemistry - A European Journal</i> , 2017, 23, 11629-11635.	1.7	8
3193	Post-Mortem Investigations of Fluorinated Flame Retardants for Lithium Ion Battery Electrolytes by Gas Chromatography with Chemical Ionization. <i>Electrochimica Acta</i> , 2017, 246, 1042-1051.	2.6	18
3194	Fabrication of Highly Flexible Hierarchical Polypyrrole/Carbon Nanotube on Eggshell Membranes for Supercapacitors. <i>ACS Omega</i> , 2017, 2, 2866-2877.	1.6	56
3195	Facile Synthesis of a Porous Pd/Cu Alloy and its Enhanced Performance toward Methanol and Formic Acid Electrooxidation. <i>ChemPlusChem</i> , 2017, 82, 1121-1128.	1.3	23
3196	Fabrication of Metal Molybdate Micro/Nanomaterials for Electrochemical Energy Storage. <i>Small</i> , 2017, 13, 1700917.	5.2	110
3197	Ternary PtPdTe Nanowires Winded Around 3D Free-Standing Carbon Foam as Electrocatalysts for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2017, 247, 426-434.	2.6	27
3198	Synthesis of nanoporous CuO/TiO ₂ /Pd-NiO composite catalysts by chemical dealloying and their performance for methanol and ethanol electro-oxidation. <i>Journal of Power Sources</i> , 2017, 362, 10-19.	4.0	56
3199	Naturally three-dimensional laminated porous carbon network structured short nano-chains bridging nanospheres for energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15759-15770.	5.2	72
3200	Insight on lithium polysulfide intermediates in a Li/S battery by density functional theory. <i>RSC Advances</i> , 2017, 7, 33373-33377.	1.7	27
3201	Zn/MnO ₂ Battery Chemistry With H ⁺ and Zn ²⁺ Coinsertion. <i>Journal of the American Chemical Society</i> , 2017, 139, 9775-9778.	6.6	1,375
3202	Molecular adsorption at electrolyte/Al ₂ O ₃ interface of aluminum electrolytic capacitor revealed by sum frequency vibrational spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 146, 194706.	1.2	0
3203	In-situ self-polymerization restriction to form core-shell LiFePO ₄ /C nanocomposite with ultrafast rate capability for high-power Li-ion batteries. <i>Nano Energy</i> , 2017, 39, 346-354.	8.2	58
3204	Nanocomposites for "nano green energy" applications. , 2017, , 421-449.		0
3205	Hysteresis effect influence on electrochemical battery modeling. <i>Electric Power Systems Research</i> , 2017, 152, 27-35.	2.1	15
3206	Chemical synthesis of polypyrrole film and its adsorption capacity for aromatic polycarboxylic acids. <i>Fibers and Polymers</i> , 2017, 18, 1064-1072.	1.1	8
3207	Synergistically enhanced activity of nitrogen-doped carbon dots/graphene composites for oxygen reduction reaction. <i>Applied Surface Science</i> , 2017, 423, 909-916.	3.1	44
3208	Enhancement of catalytic activity of a programmed gold nanoparticle superstructure modulated by supramolecular protein assembly. <i>Catalysis Today</i> , 2017, 295, 95-101.	2.2	4

#	ARTICLE	IF	CITATIONS
3209	Origin of peculiar electrochemical phenomena in direct carbon fuel cells. <i>Chemical Engineering Journal</i> , 2017, 327, 1163-1175.	6.6	6
3210	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. <i>ACS Nano</i> , 2017, 11, 6930-6941.	7.3	435
3211	3D graphene-Fe ₃ O ₄ -polyaniline, a novel ternary composite for supercapacitor electrodes with improved electrochemical properties. <i>Materials Today Energy</i> , 2017, 5, 164-172.	2.5	82
3212	A Density Functional Theory Assessment of Oxygen Evolution Reaction Mechanisms on β -NiOOH. <i>ACS Catalysis</i> , 2017, 7, 5329-5339.	5.5	110
3213	High performance and durability of polymer-coated Pt electrocatalyst supported on oxidized multi-walled in high-temperature polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16714-16721.	3.8	16
3214	Graphene Dots Embedded Phosphide Nanosheet-Assembled Tubular Arrays for Efficient and Stable Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24600-24607.	4.0	52
3215	Multilayer core-shell structured composite paper electrode consisting of copper, cuprous oxide and graphite assembled on cellulose fibers for asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2017, 361, 122-132.	4.0	47
3216	Electrospun hollow nanofibers for advanced secondary batteries. <i>Nano Energy</i> , 2017, 39, 111-139.	8.2	214
3217	Hydrogen generation properties and the hydrolysis mechanism of Zr(BH ₄) ₄ ·8NH ₃ . <i>Journal of Materials Chemistry A</i> , 2017, 5, 16630-16635.	5.2	14
3218	A cellulose fibers-supported hierarchical forest-like cuprous oxide/copper array architecture as a flexible and free-standing electrode for symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17267-17278.	5.2	61
3219	High Specific Capacitance and Energy density of Synthesized Graphene Oxide based Hierarchical Al ₂ S ₃ Nanorambutan for Supercapacitor Applications. <i>Electrochimica Acta</i> , 2017, 246, 1097-1103.	2.6	80
3220	Multi-sulfonated polyhedral oligosilsesquioxane (POSS) grafted poly(arylene ether sulfone)s for proton conductive membranes. <i>Polymer</i> , 2017, 123, 21-29.	1.8	28
3221	Carbon paper-free membrane electrode assembly fabricated from a Pt electrocatalyst supported on multi-walled carbon nanotubes. <i>Journal of Materials Science</i> , 2017, 52, 8412-8420.	1.7	4
3222	Electrospun Nanomaterials for Supercapacitor Electrodes: Designed Architectures and Electrochemical Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1601301.	10.2	334
3223	N-doped porous reduced graphene oxide as an efficient electrode material for high performance flexible solid-state supercapacitor. <i>Applied Materials Today</i> , 2017, 8, 141-149.	2.3	69
3224	KOH-assisted microwave post-treatment of activated carbon for efficient symmetrical double-layer capacitors. <i>International Journal of Energy Research</i> , 2017, 41, 728-735.	2.2	27
3225	Structural, Electrical, and Electrochemical Characteristics of LnBa _{0.5} Sr _{0.5} Co _{1.5} Fe _{0.5} O _{5+δ} (Ln=Pr, Tj) Over	1.8	28
3226	Three-Dimensional Interlocking Interface: Mechanical Nanofastener for High Interfacial Robustness of Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Materials</i> , 2017, 29, 1603056.	11.1	36

#	ARTICLE	IF	CITATIONS
3227	Theoretical insights into the energetics and electronic properties of MPt ₁₂ (M = Fe, Co, Ni, Cu, and Pd) nanoparticles supported by N-doped defective graphene. <i>Applied Surface Science</i> , 2017, 397, 199-205.	3.1	25
3228	A symmetric supercapacitor/biofuel cell hybrid device based on enzyme-modified nanoporous gold: An autonomous pulse generator. <i>Biosensors and Bioelectronics</i> , 2017, 90, 96-102.	5.3	75
3229	Meticulous insight on the state of fuel in a solid oxide carbon fuel cell. <i>Chemical Engineering Journal</i> , 2017, 308, 974-979.	6.6	6
3230	Ionic Liquid-Assisted Fabrication of Graphene-Based Electroactive Composite Materials. , 2017, , 251-290.		0
3231	Characterization of Different Conductive Salts in ACN-Based Electrolytes for Electrochemical Double-Layer Capacitors. <i>ChemElectroChem</i> , 2017, 4, 353-361.	1.7	41
3232	A review on prognostics and health monitoring of proton exchange membrane fuel cell. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 440-450.	8.2	171
3233	Ultrasound assisted formation of reduced graphene oxide-copper (II) oxide nanocomposite for energy storage applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 512, 158-170.	2.3	74
3234	Carbon Nanotubes for Electrochemical Capacitors. , 2017, , 277-321.		5
3235	Hollow metal organic frameworks-derived porous ZnO/C nanocages as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 694, 1246-1253.	2.8	90
3236	Solid-Liquid Interfaces. , 2017, , 505-525.		1
3237	Cobalt Nanoparticle-Embedded Porous Carbon Nanofibers with Inherent N- and F-Doping as Binder-Free Bifunctional Catalysts for Oxygen Reduction and Evolution Reactions. <i>ChemPhysChem</i> , 2017, 18, 223-229.	1.0	28
3238	Conducting Polymer Nanocomposite-Based Supercapacitors. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 269-304.	0.5	2
3239	Hierarchical mesoporous Ni-P@MnO ₂ composite for high performance supercapacitors. <i>Materials Letters</i> , 2017, 187, 144-147.	1.3	45
3240	Synthesis, characterization and investigation of proton exchange properties of sulfonated polytriazoles from a new semifluorinated diazide monomer. <i>Polymer Engineering and Science</i> , 2017, 57, 312-323.	1.5	22
3241	Facile one-step synthesis, structural, optical and electrochemical properties of NiCo ₂ O ₄ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 323-336.	1.1	25
3242	A high-performance BaTiO ₃ -grafted-GO-laden poly(ethylene oxide)-based membrane as an electrolyte for all-solid lithium-batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 269-277.	3.2	22
3243	Recent Advances in Multidimensional Electrode Nanoarchitecturing for Lithium-Ion and Sodium-Ion Batteries. , 2017, , 365-415.		0
3244	Simultaneous removal of phenol and dichromate from aqueous solution through a phenol-Cr(VI) coupled redox fuel cell reactor. <i>Separation and Purification Technology</i> , 2017, 172, 152-157.	3.9	15

#	ARTICLE	IF	CITATIONS
3245	Mesoporous Spinel Nanofibers and Nitrogen-Doped Carbon Nanotubes as High-Performance Electrocatalyst for Oxygen Reduction in Alkaline and Neutral Media. <i>Energy Technology</i> , 2017, 5, 283-292.	1.8	9
3246	Development of copper-stabilized conducting-polymer/polyoxometalate hybrid materials for effective electrochemical charging. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 211-222.	1.2	3
3247	Enriched Doping Level and Tuned Fiber Fractal Dimensions in Nonwoven Carbon-Doped Polyaniline for Efficient Solid-State Supercapacitors. <i>Energy Technology</i> , 2017, 5, 253-266.	1.8	13
3248	One-step synthesis of nitrogen-doped porous carbon for supercapacitors utilizing KNO ₃ as an electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 171-181.	1.2	5
3249	Solvothermal Synthesis of Mesoporous Manganese Sulfide Nanoparticles Supported on Nitrogen and Sulfur Co-Doped Graphene with Superior Lithium Storage Performance. <i>ChemElectroChem</i> , 2017, 4, 81-89.	1.7	37
3250	Oxygen-Molecule Adsorption and Dissociation on BCN Graphene: A First-Principles Study. <i>ChemPhysChem</i> , 2017, 18, 101-110.	1.0	11
3251	Graphene papers: smart architecture and specific functionalization for biomimetics, electrocatalytic sensing and energy storage. <i>Materials Chemistry Frontiers</i> , 2017, 1, 37-60.	3.2	67
3252	Pseudocapacitive Charge Storage in Thick Composite MoS ₂ Nanocrystal-Based Electrodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601283.	10.2	230
3253	Influence of texture in hybrid carbon-phosphomolybdcic acid materials on their performance as electrodes in supercapacitors. <i>Carbon</i> , 2017, 111, 74-82.	5.4	18
3254	Carbon Nanotube/Boron Nitride Nanocomposite as a Significant Bifunctional Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions. <i>Chemistry - A European Journal</i> , 2017, 23, 676-683.	1.7	61
3255	Carbon-based flexible micro-supercapacitor fabrication via mask-free ambient micro-plasma-jet etching. <i>Carbon</i> , 2017, 111, 121-127.	5.4	128
3256	Electrosynthesis and characterization of nanostructured MnO ₂ deposited on stainless steel electrode: a comparative study with commercial EMD. <i>Ionics</i> , 2017, 23, 453-460.	1.2	9
3257	Effects of Nanoporous Carbon Derived from Microalgae and Its CoO Composite on Capacitance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4362-4373.	4.0	33
3258	Hierarchically Nanostructured Electrode Materials for Lithium-Ion Batteries. , 2017, , 223-250.		0
3259	Construction of hierarchical porous graphene-carbon nanotubes hybrid with high surface area for high performance supercapacitor applications. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 563-571.	1.2	12
3260	Noble metal-based materials in high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 33-51.	3.0	151
3261	L-Glutamic acid derived PtPd@Pt core/satellite nanoassemblies as an effectively cathodic electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3774-3779.	5.2	46
3262	Fabrication of 3D lawn-shaped N-doped porous carbon matrix/polyaniline nanocomposite as the electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2017, 340, 22-31.	4.0	69

#	ARTICLE	IF	CITATIONS
3263	Hierarchical NiCo ₂ O ₄ nanosheets/nitrogen doped graphene/carbon nanotube film with ultrahigh capacitance and long cycle stability as a flexible binder-free electrode for supercapacitors. Journal of Materials Chemistry A, 2017, 5, 689-698.	5.2	131
3264	Investigation and modification of carbon buckypaper as an electrocatalyst support for oxygen reduction. Journal of Applied Electrochemistry, 2017, 47, 105-115.	1.5	4
3265	Electrochemical Performance of Morphologically Different Bi ₂ WO ₆ Nanostructures Synthesized via a Hydrothermal Route. Journal of Electronic Materials, 2017, 46, 182-187.	1.0	19
3266	The applications and prospect of fuel cells in medical field: A review. Renewable and Sustainable Energy Reviews, 2017, 67, 574-580.	8.2	85
3267	Synthesis of mesoporous reduced graphene oxide by Zn particles for electrodes of supercapacitor in ionic liquid electrolyte. Journal of Industrial and Engineering Chemistry, 2017, 45, 105-110.	2.9	32
3268	Supercapacitor to provide ancillary services. , 2017, , .		10
3269	Features of electrophoretic deposition process of nanostructured electrode materials for planar Li-ion batteries. Journal of Physics: Conference Series, 2017, 917, 092017.	0.3	0
3270	Robust linear control of storage in transmission systems, and extensions to robust network control problems. , 2017, , .		5
3271	Advances and future directions of biochar characterization methods and applications. Critical Reviews in Environmental Science and Technology, 2017, 47, 2275-2330.	6.6	194
3272	Highly porous graphitic biomass carbon as advanced electrode materials for supercapacitors. Green Chemistry, 2017, 19, 4132-4140.	4.6	861
3273	Silica-grafted ionic liquids for revealing the respective charging behaviors of cations and anions in supercapacitors. Nature Communications, 2017, 8, 2188.	5.8	103
3274	The Effect of Carbonate Precursors on the Capacitance Properties of MnCO ₃ . Materials Today: Proceedings, 2017, 4, 12407-12415.	0.9	9
3275	Haeckelite and N-Doped Haeckelite as Catalysts for Oxygen Reduction Reaction: Theoretical Studies. Journal of Physical Chemistry C, 2017, 121, 28339-28347.	1.5	8
3276	<i>In situ</i> electrochemical high-energy X-ray diffraction using a capillary working electrode cell geometry. Journal of Synchrotron Radiation, 2017, 24, 787-795.	1.0	9
3277	Multiwalled carbon nanotube based supercapacitors – Numerical approach. , 2017, , .		0
3278	Lithium tetrachloridoaluminate, LiAlCl ₄ : a new polymorph ($P6_3/mmc$ with Li ⁺ in tetrahedral interstices. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1426-1429.	0.2	4
3279	Direct synthesis of Pt-free catalyst on gas diffusion layer of fuel cell and usage of high boiling point fuels for efficient utilization of waste heat. Applied Energy, 2017, 205, 1050-1058.	5.1	20
3280	Power conversion and control of a magnetic gear integrated permanent magnet generator for wave energy generation. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
3281	Hierarchical Multicomponent Electrode with Interlaced Ni(OH) ₂ Nanoflakes Wrapped Zinc Cobalt Sulfide Nanotube Arrays for Sustainable High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2017, 7, 1701228.	10.2	162
3282	Red Seaweed Pulp as a Separator in Rechargeable Al-anode Battery. <i>Polymers and Polymer Composites</i> , 2017, 25, 521-526.	1.0	5
3283	Fabricating Core-Shell WC@C/Pt Structures and its Enhanced Performance for Methanol Electrooxidation. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 450-456.	0.6	2
3284	Synthesis of Cobaltous Nickel Oxide Core/Shell Nanowires for Supercapacitors. <i>Rare Metal Materials and Engineering</i> , 2017, 46, 3253-3259.	0.8	1
3285	Preparation of Poly(7-formylindole)/carbon Fibers Nanocomposites and Their High Capacitance Behaviors. <i>International Journal of Electrochemical Science</i> , 2017, 12, 8467-8476.	0.5	3
3286	Electrochemical Fabrication of Pseudo Platinum Foam and its Application in Methanol Electrooxidation. <i>International Journal of Electrochemical Science</i> , 2017, , 11528-11539.	0.5	3
3287	Thermodynamic Effects of Nanotechnological Augmentation of Hydrogen Fuel Cells. <i>PAM Review Energy Science & Technology</i> , 2017, 4, 76-86.	0.2	1
3288	Metal-semiconductor core-shell nanomaterials for energy applications. , 2017, , 99-132.		1
3289	Recent Development on Nanocomposites of Graphene for Supercapacitor Applications. <i>Current Graphene Science</i> , 2017, 1, .	0.5	25
3290	Nanocomposite Based on Functionalized Gold Nanoparticles and Sulfonated Poly(ether ether ketone) Membranes: Synthesis and Characterization. <i>Materials</i> , 2017, 10, 258.	1.3	9
3291	An Inexpensive Paper-Based Aluminum-Air Battery. <i>Micromachines</i> , 2017, 8, 222.	1.4	27
3292	A Review on Nanocomposite Materials for Rechargeable Li-ion Batteries. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 731.	1.3	55
3293	Structure and Capacitance of Electrical Double Layers at the Graphene-Ionic Liquid Interface. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 939.	1.3	21
3294	Cross-Linked CoMoO ₄ /rGO Nanosheets as Oxygen Reduction Catalyst. <i>Catalysts</i> , 2017, 7, 375.	1.6	7
3295	A Critical Review of Spinel Structured Iron Cobalt Oxides Based Materials for Electrochemical Energy Storage and Conversion. <i>Energies</i> , 2017, 10, 1787.	1.6	51
3296	Status of Biomass Derived Carbon Materials for Supercapacitor Application. <i>International Journal of Electrochemistry</i> , 2017, 2017, 1-14.	2.4	72
3297	Nanostructured Inorganic Materials at Work in Electrochemical Sensing and Biofuel Cells. <i>Catalysts</i> , 2017, 7, 31.	1.6	23
3298	Ethyl Methyl Sulfone-Based Electrolytes for Lithium Ion Battery Applications. <i>Energies</i> , 2017, 10, 1312.	1.6	19

#	ARTICLE	IF	CITATIONS
3299	Hierarchically encapsulated MoO ₃ @SnO ₂ nanobelts as negative electrodes of supercapacitors. , 2017, , .		0
3300	CoWO ₄ Nanoparticles Prepared in Different Solvents and Their Pseudocapacitance Performances. International Journal of Electrochemical Science, 2017, 12, 5646-5656.	0.5	11
3301	Solvothermal Synthesized Fe ³⁺ -Fe ₂ O ₃ /graphite Composite for Supercapacitor. International Journal of Electrochemical Science, 2017, 12, 6292-6303.	0.5	15
3302	Pseudocapacitive Behavior of Ag ₃ PO ₄ Nanospheres Prepared by a Sonochemical Process. Materials Transactions, 2017, 58, 298-301.	0.4	5
3303	The Role of Sub- and Supercritical CO ₂ as Processing Solvent for the Recycling and Sample Preparation of Lithium Ion Battery Electrolytes. Molecules, 2017, 22, 403.	1.7	68
3304	Electronic and Ionic Conductivity of Metal-Organic Frameworks. , 2017, , 399-423.		4
3305	Reduced Graphene Oxide/Nickel Oxide/Polyaniline: Preparation and Properties Investigation as Supercapacitor Electrode Material. International Journal of Electrochemical Science, 2017, 12, 652-662.	0.5	13
3306	Development of a Highly Efficient 3D RuPdBi/NG Electrocatalyst for Ethylene Glycol Oxidation in an Alkaline Media. International Journal of Electrochemical Science, 2017, , 11030-11041.	0.5	3
3307	Interfacial Molecular Structure and Dynamics at Solid Surface Studied by Sum Frequency Generation Spectroscopy. , 2017, , 203-241.		1
3308	Ternary PtPdCu Multicubes as a Highly Active and Durable Catalyst toward the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1345-1349.	1.7	18
3309	Diffusion-Controlled Faradaic Charge Storage in High-Performance Solid Electrolyte-Gated Zinc Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2018, 10, 9782-9791.	4.0	51
3310	Candle soot derived carbon nanodot/polyaniline hybrid materials through controlled grafting of polyaniline chains for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 6476-6492.	5.2	49
3311	Flexible Fiber and Fabric Batteries. Advanced Materials Technologies, 2018, 3, 1700302.	3.0	25
3312	Reaching Highly Stable Specific Capacity with Integrated 0.6Li ₂ MnO ₃ ∞0.4LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ Cathode Materials. ChemElectroChem, 2018, 5, 1137-1146.		22
3313	Generating Electricity on Chips: Microfluidic Biofuel Cells in Perspective. Industrial & Engineering Chemistry Research, 2018, 57, 2746-2758.	1.8	22
3314	Highly Ordered Hierarchical Pt and PtNi Nanowire Arrays for Enhanced Electrocatalytic Activity toward Methanol Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 9444-9450.	4.0	54
3315	Nitrogen-doped carbon nanotubes decorated with cobalt nanoparticles derived from zeolitic imidazolate framework-67 for highly efficient oxygen reduction reaction electrocatalysis. Carbon, 2018, 132, 580-588.	5.4	68
3316	Anchoring Mn ₃ O ₄ Nanoparticles on Oxygen Functionalized Carbon Nanotubes as Bifunctional Catalyst for Rechargeable Zinc-Air Battery. ACS Applied Energy Materials, 2018, 1, 963-969.	2.5	80

#	ARTICLE	IF	CITATIONS
3317	Multifunctional Nickel Phosphate Nano/Microflakes 3D Electrode for Electrochemical Energy Storage, Nonenzymatic Glucose, and Sweat pH Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8599-8610.	4.0	114
3318	Hollow Structural Transition Metal Oxide for Advanced Supercapacitors. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701509.	1.9	93
3319	Phosphorus and Nitrogen Centers in Doped Graphene and Carbon Nanotubes Analyzed through Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6593-6601.	1.5	40
3320	Engineering phosphorus-doped LaFeO ₃ - δ perovskite oxide as robust bifunctional oxygen electrocatalysts in alkaline solutions. <i>Nano Energy</i> , 2018, 47, 199-209.	8.2	202
3321	Hybrid NiCo ₂ O ₄ @NiCo ₂ S ₄ Nanoflakes as High-Performance Anode Materials for Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2018, 3, 2315-2320.	0.7	13
3322	Hierarchical porous carbon with high nitrogen content derived from plant waste (pomelo peel) for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7707-7717.	1.1	42
3323	The stability limits of highly active nitrogen doped carbon ORR nano-catalysts: a mechanistic study of degradation reactions. <i>Nanoscale</i> , 2018, 10, 6724-6733.	2.8	28
3324	Electrophoretic deposition of mixed copper oxide/GO as cathode and N-doped GO as anode for electrochemical energy storage. <i>Electrochimica Acta</i> , 2018, 268, 392-402.	2.6	7
3325	Synthesis of three-dimensionally ordered porous perovskite type LaMnO ₃ for Al-air battery. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1532-1537.	5.6	19
3326	A new electrochemically responsive 2D π -conjugated covalent organic framework as a high performance supercapacitor. <i>Microporous and Mesoporous Materials</i> , 2018, 266, 109-116.	2.2	84
3327	Hierarchical NiO@NiCo ₂ O ₄ Core-shell Nanosheet Arrays on Ni Foam for High-Performance Electrochemical Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6246-6256.	1.8	76
3328	Interfaces and Materials in Lithium Ion Batteries: Challenges for Theoretical Electrochemistry. <i>Topics in Current Chemistry</i> , 2018, 376, 16.	3.0	72
3329	Perovskite nanostructures for photovoltaic and energy storage devices. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9765-9798.	5.2	90
3330	Modification of anode electrode in microbial fuel cell for electrochemical recovery of energy and copper metal. <i>Electrochimica Acta</i> , 2018, 275, 8-17.	2.6	57
3331	TiO ₂ /reduced graphene oxide composite based nano-petals for supercapacitor application: effect of substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10814-10824.	1.1	22
3332	Comparison of supercapacitive behaviors of polyaniline doped with two low-molecular-weight organic acids: D-tartaric acid and citric acid. <i>Advances in Polymer Technology</i> , 2018, 37, 3038-3044.	0.8	4
3333	Zn doped γ -MnO ₂ nano flakes: An efficient electrode material for aqueous and solid state asymmetric supercapacitors. <i>Applied Surface Science</i> , 2018, 450, 209-218.	3.1	51
3334	In situ coating nickel organic complexes on free-standing nickel wire films for volumetric-energy-dense supercapacitors. <i>Nanotechnology</i> , 2018, 29, 275401.	1.3	5

#	ARTICLE	IF	CITATIONS
3335	Recent Advances in Porous Carbon Materials for Electrochemical Energy Storage. Chemistry - an Asian Journal, 2018, 13, 1518-1529.	1.7	108
3336	Oxidized Laser-Induced Graphene for Efficient Oxygen Electrocatalysis. Advanced Materials, 2018, 30, e1707319.	11.1	94
3337	Multi-Anion Intercalated Layered Double Hydroxide Nanosheet-Assembled Hollow Nanoprisms with Improved Pseudocapacitive and Electrocatalytic Properties. Chemistry - an Asian Journal, 2018, 13, 1129-1137.	1.7	24
3338	Determination of specific capacitance of modified candlenut shell based carbon as electrode material for supercapacitor. Journal of Physics: Conference Series, 2018, 979, 012024.	0.3	5
3339	Halloysite nanotubes favored facile deposition of nickel disulfide on NiMn oxides nanosheets for high-performance energy storage. Electrochimica Acta, 2018, 273, 349-357.	2.6	10
3340	Templating Synthesis of Mesoporous Fe ₃ C-Encapsulated Fe-N-Doped Carbon Hollow Nanospindles for Electrocatalysis. Langmuir, 2018, 34, 4952-4961.	1.6	43
3341	SiO ₂ decoration dramatically enhanced the stability of PtRu electrocatalysts with undetectable deterioration in fuel cell performance. Nanotechnology, 2018, 29, 245401.	1.3	6
3342	Metal-Organic Framework-Assisted Synthesis of Compact Fe ₂ O ₃ Nanotubes in Co ₃ O ₄ Host with Enhanced Lithium Storage Properties. Nano-Micro Letters, 2018, 10, 44.	14.4	93
3343	Improvement in stability of PtRu electrocatalyst by carbonization of in-situ polymerized polyaniline. International Journal of Hydrogen Energy, 2018, 43, 12730-12738.	3.8	12
3344	Recent progress in plasma-assisted synthesis and modification of 2D materials. 2D Materials, 2018, 5, 032002.	2.0	58
3345	One-step hydrothermal synthesis of flower-like CoS hierarchitectures for application in supercapacitors. Bulletin of Materials Science, 2018, 41, 1.	0.8	31
3346	Sustainable hierarchical porous biomass carbons enriched with pyridinic and pyrrolic nitrogen for asymmetric supercapacitor. Materials and Design, 2018, 149, 184-193.	3.3	63
3347	Synthesis of NiMn-LDH Nanosheet@Ni ₃ S ₂ Nanorod Hybrid Structures for Supercapacitor Electrode Materials with Ultrahigh Specific Capacitance. Scientific Reports, 2018, 8, 5246.	1.6	83
3348	Pt/Co-Au Dumbbell-Like Nanorods for Enhanced Electrocatalytic Performance of Formic Acid Electrooxidation. Particle and Particle Systems Characterization, 2018, 35, 1700379.	1.2	1
3349	Facile synthesis and properties of iron oxide spheres coated with carbon. Materials Letters, 2018, 223, 235-238.	1.3	2
3350	Ni(OH) ₂ nanoflakes supported on 3D hierarchically nanoporous gold/Ni foam as superior electrodes for supercapacitors. Science China Materials, 2018, 61, 353-362.	3.5	29
3351	Binder-free 2D titanium carbide (MXene)/carbon nanotube composites for high-performance lithium-ion capacitors. Nanoscale, 2018, 10, 5906-5913.	2.8	212
3352	Fabrication of one dimensional graphene nanoscrolls for high performance supercapacitor application. Applied Surface Science, 2018, 449, 461-467.	3.1	20

#	ARTICLE	IF	CITATIONS
3353	Functionalized crown ether assisted morphological tuning of CuO nanosheets for electrochemical supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 99-106.	1.9	34
3354	Peculiar Li-storage mechanism at graphene edges in turbostratic carbon black and their application in high energy Li-ion capacitor. <i>Journal of Power Sources</i> , 2018, 378, 628-635.	4.0	13
3355	Free-standing and flexible organic cathode based on aromatic carbonyl compound/carbon nanotube composite for lithium and sodium organic batteries. <i>Journal of Colloid and Interface Science</i> , 2018, 517, 72-79.	5.0	51
3357	Design of a novel redox-active gel polymer electrolyte with a dual-role ionic liquid for flexible supercapacitors. <i>Electrochimica Acta</i> , 2018, 268, 562-568.	2.6	92
3358	New Phosphorus-doped Perovskite Oxide as an Oxygen Reduction Reaction Electrocatalyst in an Alkaline Solution. <i>Chemistry - A European Journal</i> , 2018, 24, 6950-6957.	1.7	34
3359	High capacitance and energy density supercapacitor based on biomass-derived activated carbons with reduced graphene oxide binder. <i>Carbon</i> , 2018, 132, 16-24.	5.4	138
3360	Sustainable activated carbons from dead ginkgo leaves for supercapacitor electrode active materials. <i>Chemical Engineering Science</i> , 2018, 181, 36-45.	1.9	204
3361	Enhanced Proton Conductivity of Sulfonated Hybrid Poly(arylene ether ketone) Membranes by Incorporating an Amino-Sulfo Bifunctionalized Metal-Organic Framework for Direct Methanol Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7963-7973.	4.0	109
3362	Elektrolytadditive für Lithiummetallanoden und wiederaufladbare Lithiummetallbatterien: Fortschritte und Perspektiven. <i>Angewandte Chemie</i> , 2018, 130, 15220-15246.	1.6	54
3363	Enhancement in the supercapacitive storage performance of MnCO ₃ using SiO _x nanofluid-based electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1795-1800.	1.2	6
3364	Structural characterization, electrical conductivity and open circuit voltage studies of the nanocrystalline La ₁₀ Si ₆ O ₂₇ electrolyte material for SOFCs. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	7
3365	Activated Biomass-derived Graphene-based Carbons for Supercapacitors with High Energy and Power Density. <i>Scientific Reports</i> , 2018, 8, 1915.	1.6	79
3366	Configuring PS tetrahedral clusters in Li-excess Li ₇ P ₃ S ₁₁ solid electrolyte. <i>APL Materials</i> , 2018, 6, .	2.2	9
3367	Thermally Resistive Electrospun Composite Membranes for Low-Grade Thermal Energy Harvesting. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700482.	1.7	6
3368	Mechanisms of Degradation and Strategies for the Stabilization of Cathode-Electrolyte Interfaces in Li-Ion Batteries. <i>Accounts of Chemical Research</i> , 2018, 51, 299-308.	7.6	94
3369	One-Dimensional BiFeO ₃ Nanowire-Reduced Graphene Oxide Nanocomposite as Excellent Supercapacitor Electrode Material. <i>ACS Applied Energy Materials</i> , 2018, 1, 464-474.	2.5	130
3370	Flexible and freestanding supercapacitor based on nanostructured poly(m-aminophenol)/carbon nanofiber hybrid mats with high energy and power densities. <i>Nanotechnology</i> , 2018, 29, 165401.	1.3	23
3371	Enhanced cycling stability of hierarchical NiCo ₂ S ₄ @Ni(OH) ₂ @PPy core-shell nanotube arrays for aqueous asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2482-2493.	5.2	344

#	ARTICLE	IF	CITATIONS
3372	Nickel phosphide decorated Pt nanocatalyst with enhanced electrocatalytic properties toward common small organic molecule oxidation and hydrogen evolution reaction: A strengthened composite supporting effect. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3203-3215.	3.8	8
3373	Graphene-Based Nanomaterials for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702469.	10.2	170
3374	Wearable energy sources based on 2D materials. <i>Chemical Society Reviews</i> , 2018, 47, 3152-3188.	18.7	226
3375	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 876-882.	2.5	18
3377	Coupled s-p-d Exchange in Facet-Controlled Pd ₃ Pb Tripods Enhances Oxygen Reduction Catalysis. <i>CheM</i> , 2018, 4, 359-371.	5.8	100
3378	Ultrathin Cobalt Oxide Overlayer Promotes Catalytic Activity of Cobalt Nitride for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 4783-4791.	1.5	46
3379	Inhibition of Redox Behaviors in Hierarchically Structured Manganese Cobalt Phosphate Supercapacitor Performance by Surface Trivalent Cations. <i>ACS Omega</i> , 2018, 3, 1718-1725.	1.6	30
3380	Electrolyte Additives for Lithium Metal Anodes and Rechargeable Lithium Metal Batteries: Progress and Perspectives. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15002-15027.	7.2	551
3381	Self-Humidified Pt Electrocatalyst Fabricated from Hydrophilic Molecules Coating with Enhanced Fuel Cell Performance. <i>Energy Technology</i> , 2018, 6, 1813-1819.	1.8	1
3382	Novel CeO ₂ nanorod framework prepared by dealloying for supercapacitors applications. <i>Ionics</i> , 2018, 24, 2063-2072.	1.2	28
3383	Analysis of the control strategies for fuel saving in the hydrogen fuel cell vehicles. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10810-10821.	3.8	200
3384	Microstructures and electrical properties of V ₂ O ₅ and carbon-nanofiber composites fabricated by cold sintering process. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 025702.	0.8	15
3385	All Pseudocapacitive MXene-RuO ₂ Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2018, 8, 1703043.	10.2	757
3386	A configuration-independent modeling toolset for the analysis of small-scale electric-powered UAVs. , 2018, , .		1
3387	Low-temperature ammonia decomposition catalysts for hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 162-181.	10.8	307
3388	Galvanic exchange-formed ultra-low Pt loading on synthesized unique porous Ag-Pd nanotubes for increased active sites toward oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 263, 209-216.	2.6	22
3389	High energy density symmetric capacitor using zinc cobaltate flowers grown in situ on Ni foam. <i>Electrochimica Acta</i> , 2018, 261, 265-274.	2.6	33
3390	The role of arginine as nitrogen doping and carbon source for enhanced oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1479-1488.	3.8	7

#	ARTICLE	IF	CITATIONS
3391	In-situ sulfuration synthesis of sandwiched spherical tin sulfide/sulfur-doped graphene composite with ultra-low sulfur content. <i>Journal of Power Sources</i> , 2018, 378, 81-89.	4.0	35
3392	Reduced graphene oxide (rGO): supported NiO, Co ₃ O ₄ and NiCo ₂ O ₄ hybrid composite on carbon cloth (CC) as bi-functional electrode/catalyst for energy storage and conversion devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4869-4880.	1.1	21
3393	Electrochemically tuned cobalt hydroxide carbonate with abundant grain boundaries for highly efficient electro-oxidation of hydrazine. <i>Materials Chemistry Frontiers</i> , 2018, 2, 369-375.	3.2	10
3394	Influence of electrodeposition modes on the electrochemical performance of MnO ₂ films prepared using anionic MnO ₄ ²⁻ (Mn ⁷⁺) precursor. <i>Ceramics International</i> , 2018, 44, 5710-5718.	2.3	16
3395	Binder-free NiFe ₂ O ₄ /C nanofibers as air cathodes for Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2018, 377, 136-141.	4.0	59
3396	Multilayered Flexible Fibers with High Performance for Wearable Supercapacitor Applications. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700143.	2.7	13
3397	Cruising in ceramics—discovering new structures for all-solid-state batteries—fundamentals, materials, and performances. <i>Ionics</i> , 2018, 24, 639-660.	1.2	44
3398	Development of ionic liquid and lithium salt immobilized MCM-41 quasi solid-liquid electrolytes for lithium batteries. <i>Journal of Energy Storage</i> , 2018, 15, 283-291.	3.9	33
3399	Nitrogen and sulphur co-doped multiwalled carbon nanotubes as an efficient electrocatalyst for improved oxygen electroreduction. <i>Applied Surface Science</i> , 2018, 449, 697-704.	3.1	29
3400	Controllable synthesis of Co ₃ O ₄ nanocrystals as efficient catalysts for oxygen reduction reaction. <i>Nanotechnology</i> , 2018, 29, 105401.	1.3	8
3401	Hydrothermal Synthesis and Characterization of an Apatite-Type Lanthanum Silicate Ceramic for Solid Oxide Fuel Cell Electrolyte Applications. <i>Energy Technology</i> , 2018, 6, 1739-1746.	1.8	8
3402	Synthesis and characterization of polymer electrolyte membrane containing methylisatin moiety by polyhydroalkylation for fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5398-5404.	3.8	18
3403	Hierarchical nano-on-micro copper with enhanced catalytic activity towards electro-oxidation of hydrazine. <i>Frontiers of Materials Science</i> , 2018, 12, 45-52.	1.1	4
3404	Biowaste-Derived Three-Dimensional Porous Network Carbon and Bioseparator for High-Performance Asymmetric Supercapacitor. <i>ACS Applied Energy Materials</i> , 2018, 1, 616-622.	2.5	44
3405	Reduced graphene oxide-silver nanoparticles/nitrogen-doped carbon nanofiber composites with meso-microporous structure for high-performance symmetric supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2018, 742, 769-779.	2.8	43
3406	Graphene aerogels for efficient energy storage and conversion. <i>Energy and Environmental Science</i> , 2018, 11, 772-799.	15.6	435
3407	LiFePO ₄ /Mesoporous Carbon Hybrid Supercapacitor Based on LiTFSI/Imidazolium Ionic Liquid Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1456-1465.	1.5	30
3408	Construction of Core-Shell NiMoO ₄ @Ni-Co-S Nanorods as Advanced Electrodes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4662-4671.	4.0	195

#	ARTICLE	IF	CITATIONS
3409	Fast ion transport through ultrathin shells of metal sulfide hollow nanocolloids used for high-performance energy storage. <i>Scientific Reports</i> , 2018, 8, 30.	1.6	14
3410	Hard-template-engaged formation of $\text{Co}_2\text{V}_2\text{O}_7$ hollow prisms for lithium ion batteries. <i>RSC Advances</i> , 2018, 8, 2072-2076.	1.7	16
3411	High performance Li^+CO_2 batteries with $\text{NiO}@\text{CNT}$ cathodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2792-2796.	5.2	146
3412	Porous Iron-Cobalt Alloy/Nitrogen-Doped Carbon Cages Synthesized via Pyrolysis of Complex Metal-Organic Framework Hybrids for Oxygen Reduction. <i>Advanced Functional Materials</i> , 2018, 28, 1706738.	7.8	227
3413	Flexible supercapacitors based on carbon nanotubes. <i>Chinese Chemical Letters</i> , 2018, 29, 571-581.	4.8	88
3414	Tunable Free-Standing Ultrathin Porous Nickel Film for High Performance Flexible Nickel-Metal Hydride Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1702467.	10.2	31
3415	Core-Shell Composite Fibers for High-Performance Flexible Supercapacitor Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4041-4049.	4.0	73
3416	$\text{NiCuCo}_2\text{O}_4$ Supported Ni^+Cu Ion-Exchanged Mesoporous Zeolite Heteronano Architecture: An Efficient, Stable, and Economical Nonprecious Electrocatalyst for Methanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2023-2036.	3.2	51
3417	Poly(arylene ether nitrile) anion exchange membranes with dense flexible ionic side chain for fuel cells. <i>Journal of Membrane Science</i> , 2018, 550, 254-265.	4.1	55
3418	Rose-like Ni_3S_4 as battery-type electrode for hybrid supercapacitor with excellent charge storage performance. <i>Chemical Engineering Journal</i> , 2018, 350, 523-533.	6.6	210
3419	Poly(ionic liquid) binders as ionic conductors and polymer electrolyte interfaces for enhanced electrochemical performance of water splitting electrodes. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1446-1451.	2.5	15
3420	Rechargeable aqueous zinc-iodine batteries: pore confining mechanism and flexible device application. <i>Chemical Communications</i> , 2018, 54, 6792-6795.	2.2	116
3421	Emerging Robust Heterostructure of MoS_2 -rGO for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16588-16595.	4.0	163
3422	Nanosheet-Assembled Hierarchical Carbon Nanoframeworks Bearing a Multiactive Center for Oxygen Reduction Reaction. <i>Small Methods</i> , 2018, 2, 1800068.	4.6	28
3423	Computational predictive design for metal-decorated-graphene size-specific subnanometer to nanometer ORR catalysts. <i>Catalysis Today</i> , 2018, 312, 105-117.	2.2	13
3424	Fabrication and theoretical investigation of MoS_2 - Co_3S_4 hybrid hollow structure as electrode material for lithium-ion batteries and supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 347, 607-617.	6.6	81
3425	Nickel cobalt hydroxide/reduced graphene oxide/carbon nanotubes for high performance aqueous asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 753, 525-531.	2.8	30
3426	Research Progress in MnO_2 -Carbon Based Supercapacitor Electrode Materials. <i>Small</i> , 2018, 14, e1702883.	5.2	230

#	ARTICLE	IF	CITATIONS
3427	Carbonized cellulose beads for efficient capacitive energy storage. <i>Cellulose</i> , 2018, 25, 3545-3556.	2.4	12
3428	Chemically synthesized 3D nanostructured polypyrrole electrode for high performance supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15699-15707.	1.1	17
3429	Synthesis and characterization of GO/IrO ₂ thin film supercapacitor. <i>Journal of Alloys and Compounds</i> , 2018, 754, 14-25.	2.8	55
3430	Porous Pt ₃ Ni with enhanced activity and durability towards oxygen reduction reaction. <i>RSC Advances</i> , 2018, 8, 15344-15351.	1.7	12
3431	Evolution of silver to a better electrocatalyst: Water-assisted oxygen reduction reaction at silver chloride nanowires in alkaline solution. <i>Nano Energy</i> , 2018, 48, 134-143.	8.2	26
3432	<i>In situ</i> electrochemical electron paramagnetic resonance spectroscopy as a tool to probe electrical double layer capacitance. <i>Chemical Communications</i> , 2018, 54, 3827-3830.	2.2	22
3433	All nanocarbon Li-Ion capacitor with high energy and high power density. <i>Materials Today Energy</i> , 2018, 8, 109-117.	2.5	52
3434	Ultrahigh-Rate Supercapacitors Based on 2-Dimensional, 1T MoS ₂ Se ₂ for AC Line-Filtering Applications. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14186-14194.	1.5	29
3435	Hollow Co ₉ S ₈ from metal organic framework supported on rGO as electrode material for highly stable supercapacitors. <i>Chinese Chemical Letters</i> , 2018, 29, 612-615.	4.8	31
3436	Light-weight 3D Co-N-doped hollow carbon spheres as efficient electrocatalysts for rechargeable zinc-air batteries. <i>Nanoscale</i> , 2018, 10, 10412-10419.	2.8	73
3437	Hierarchical porous carbon materials from nanosized metal-organic complex for high-performance symmetrical supercapacitor. <i>Electrochimica Acta</i> , 2018, 269, 580-589.	2.6	47
3438	Synthesis of 1,3-dicarbonyl-functionalized reduced graphene oxide/MnO ₂ composites and their electrochemical properties as supercapacitors. <i>RSC Advances</i> , 2018, 8, 11338-11343.	1.7	6
3439	Ultrafast surface modification of Ni ₃ S ₂ nanosheet arrays with Ni-Mn bimetallic hydroxides for high-performance supercapacitors. <i>Scientific Reports</i> , 2018, 8, 4478.	1.6	22
3440	Extreme biomimetics: A carbonized 3D spongin scaffold as a novel support for nanostructured manganese oxide(IV) and its electrochemical applications. <i>Nano Research</i> , 2018, 11, 4199-4214.	5.8	51
3441	Template synthesis of C@NiCo ₂ O ₄ hollow microsphere as electrode material for supercapacitor. <i>Journal of Alloys and Compounds</i> , 2018, 749, 305-312.	2.8	56
3442	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. <i>Chemical Reviews</i> , 2018, 118, 6337-6408.	23.0	1,552
3443	Applications of KPFM-Based Approaches for Surface Potential and Electrochemical Measurements in Liquid. <i>Springer Series in Surface Sciences</i> , 2018, , 391-433.	0.3	3
3444	Porous indium oxide hollow spheres (PIOHS) for asymmetric electrochemical supercapacitor with excellent cycling stability. <i>Electrochimica Acta</i> , 2018, 270, 87-95.	2.6	28

#	ARTICLE	IF	CITATIONS
3445	Catalytic performance of ordered mesoporous carbons modified with lanthanides in dry methane reforming. <i>Catalysis Today</i> , 2018, 301, 204-216.	2.2	28
3446	Oxygen Reduction Reaction Catalyzed by Small Gold Cluster on h-BN/Au(111) Support. <i>Electrocatalysis</i> , 2018, 9, 182-188.	1.5	14
3447	Poly(3,4-ethylenedioxythiophene) electrode grown in the presence of ionic liquid and its symmetrical electrochemical supercapacitor application. <i>Polymer Bulletin</i> , 2018, 75, 1547-1562.	1.7	17
3448	Fairly improved pseudocapacitance of PTP/PANI/TiO ₂ nanohybrid composite electrode material for supercapacitor applications. <i>Ionics</i> , 2018, 24, 257-268.	1.2	38
3449	Conducting Polymeric Hydrogel Electrolyte Based on Carboxymethylcellulose and Polyacrylamide/Polyaniline for Supercapacitor Applications. <i>International Journal of Nanoscience</i> , 2018, 17, 1760003.	0.4	12
3450	In situ construction of porous NiCo ₂ O ₄ /Ni foam electrodes for high-performance energy storage applications. <i>Journal of Porous Materials</i> , 2018, 25, 565-570.	1.3	5
3451	Polymerization of graphene oxide nanosheet by using of aminoclay: Electrocatalytic activity of its platinum nanohybrids. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3894.	1.7	12
3452	Comparative study of sulfonated branched and linear poly(phenylene)s polymer electrolyte membranes for fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5374-5385.	3.8	35
3453	Fabrication of highly flexible conducting electrode based on MnS nanoparticles/graphite/scotch tape for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1636-1642.	1.1	13
3454	Triethylenediamine-assisted one-step hydrothermal synthesis of polyhedron-shaped Co ₃ S ₄ for high performance supercapacitor. <i>Ceramics International</i> , 2018, 44, 1836-1842.	2.3	17
3455	Overview of nanostructured metal oxides and pure nickel oxide (NiO) electrodes for supercapacitors: A review. <i>Journal of Alloys and Compounds</i> , 2018, 734, 89-111.	2.8	381
3456	Dendritic Core-Frame and Frame Multimetallic Rhombic Dodecahedra: A Comparison Study of Composition and Structure Effects on Electrocatalysis of Methanol Oxidation. <i>ChemNanoMat</i> , 2018, 4, 76-87.	1.5	11
3457	Nitrogen and sulfur co-doped porous carbon derived from bio-waste as a promising electrocatalyst for zinc-air battery. <i>Energy</i> , 2018, 143, 43-55.	4.5	98
3458	Mechanical activation in reduced graphite oxide/boron nitride nanocomposite electrocatalysts for significant improvement in dioxygen reduction. <i>Sustainable Energy and Fuels</i> , 2018, 2, 252-261.	2.5	16
3459	Electrospun mulberry-like hierarchical carbon fiber web for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 713-721.	5.0	33
3460	Progress in aqueous rechargeable batteries. <i>Green Energy and Environment</i> , 2018, 3, 20-41.	4.7	255
3461	Production of P, N Co-doped Graphene-Based Materials by a Solution Process and Their Electrocatalytic Performance for Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2018, 4, 118-123.	1.5	28
3462	Fabrication and application of hierarchical mesoporous MoO ₂ /Mo ₂ C/C microspheres. <i>Journal of Energy Chemistry</i> , 2018, 27, 940-948.	7.1	27

#	ARTICLE	IF	CITATIONS
3463	Recent development in hybrid conducting polymers: Synthesis, applications and future prospects. Journal of Industrial and Engineering Chemistry, 2018, 60, 53-84.	2.9	120
3464	Highly proton conducting proton-exchange membranes based on fluorinated poly(arylene ether) Tj ETQq1 1 0.784314 rgBT, /Overlo	2.5	22
3465	Nitrogen-doped and nanostructured carbons with high surface area for enhanced oxygen reduction reaction. Carbon, 2018, 126, 111-118.	5.4	63
3466	Efficient Solar-Assisted O ₂ Reduction Using a Cofacial Iron Porphyrin Dimer Catalyst Integrated into a CuBi ₂ O ₄ Photocathode. Chemistry - A European Journal, 2018, 24, 10606-10611.	1.7	10
3467	Metal (M = Co, Ni) phosphate based materials for high-performance supercapacitors. Inorganic Chemistry Frontiers, 2018, 5, 11-28.	3.0	169
3468	Understanding and controlling the rest potential of carbon nanotube-based supercapacitors for energy density enhancement. Applied Surface Science, 2018, 433, 765-771.	3.1	13
3469	Probing the activity of pure and N-doped fullerenes towards oxygen reduction reaction by density functional theory. Carbon, 2018, 126, 53-57.	5.4	76
3470	Synergistic Doping for Pseudocapacitance Sites in Alkaline Carbon Supercapacitors. ChemElectroChem, 2018, 5, 84-92.	1.7	13
3471	Facile synthesis of ZnS/MnS nanocomposites for supercapacitor applications. Journal of Solid State Electrochemistry, 2018, 22, 303-313.	1.2	69
3472	Determinant influence of the electrical conductivity versus surface area on the performance of graphene oxide-doped carbon xerogel supercapacitors. Carbon, 2018, 126, 456-463.	5.4	30
3473	Biofuel Cells. , 2018, , 161-190.		1
3474	A coordination compound featuring a supramolecular hydrogen-bonding network for proton conduction. Chinese Chemical Letters, 2018, 29, 336-338.	4.8	23
3475	Energy materials based on metal Schiff base complexes. Coordination Chemistry Reviews, 2018, 355, 180-198.	9.5	260
3476	Understanding electrochemical performance of Ni(OH) ₂ films: a study contributions to energy storage. Journal of Solid State Electrochemistry, 2018, 22, 1621-1628.	1.2	4
3477	Ion Storage in Nanoconfined Interstices Between Vertically Aligned Nanotubes in Electric Double-Layer Capacitors. Journal of Electrochemical Energy Conversion and Storage, 2018, 15, .	1.1	2
3478	An efficient electrocatalyst for oxygen reduction to water - boron nitride nanosheets decorated with small gold nanoparticles (~ 5 nm) of narrow size distribution on gold substrate. Journal of Electroanalytical Chemistry, 2018, 819, 107-113.	1.9	22
3479	Effect of molten salt synthesis temperature on TiO ₂ and Li cycling properties. Journal of Solid State Electrochemistry, 2018, 22, 429-439.	1.2	5
3480	Photobatteries and Photocapacitors. Green Chemistry and Sustainable Technology, 2018, , 281-325.	0.4	4

#	ARTICLE	IF	CITATIONS
3481	Metal-organic frameworks for electrocatalysis. <i>Coordination Chemistry Reviews</i> , 2018, 373, 22-48.	9.5	360
3482	Synthesis of poly(m-phenylenediamine)-coated hexagonal Co ₉ S ₈ for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2018, 53, 759-773.	1.7	19
3483	One-step electrodeposition of nickel cobalt sulfide nanosheets on Ni nanowire film for hybrid supercapacitor. <i>Electrochimica Acta</i> , 2018, 259, 617-625.	2.6	104
3484	Sludge decrement and electricity generation of sludge microbial fuel cell enhanced by zero valent iron. <i>Journal of Cleaner Production</i> , 2018, 174, 35-41.	4.6	30
3485	Enhancement of salt removal in capacitive deionization cell through periodically alternated oxidation of electrodes. <i>Separation and Purification Technology</i> , 2018, 194, 451-456.	3.9	21
3486	Electrochemical and electronic properties of nitrogen doped fullerene and its derivatives for lithium-ion battery applications. <i>Journal of Energy Chemistry</i> , 2018, 27, 528-534.	7.1	36
3487	An overview of engineered porous material for energy applications: a mini-review. <i>Ionics</i> , 2018, 24, 1-17.	1.2	61
3488	A new energy conversion and storage device of cobalt oxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2018, 6, 36-40.	5.2	19
3489	Graphene-Supported Cobalt(III) Complex of a Tetraamidomacrocyclic Ligand for Oxygen Reduction Reaction. <i>Catalysis Letters</i> , 2018, 148, 407-417.	1.4	4
3490	1D Nanomaterials: Design, Synthesis, and Applications in Sodium-Ion Batteries. <i>Small</i> , 2018, 14, 1703086.	5.2	184
3491	Zinc particles coated with bismuth oxide based glasses as anode material for zinc air batteries with improved electrical rechargeability. <i>Electrochimica Acta</i> , 2018, 260, 246-253.	2.6	65
3492	Interface polarization matters: Enhancing supercapacitor performance of spinel NiCo ₂ O ₄ nanowires by reduced graphene oxide coating. <i>Electrochimica Acta</i> , 2018, 260, 814-822.	2.6	94
3493	3-Dimensional MWCNT/CuO nanostructures use as an electrochemical catalyst for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2311-2317.	2.8	27
3494	PHOTOELECTROCHEMICAL TOOLS FOR THE ASSESSMENT OF ENERGY CONVERSION DEVICES. , 2018, , 361-395.		0
3495	Synergetic effects of Fe ³⁺ doped spinel Li ₄ Ti ₅ O ₁₂ nanoparticles on reduced graphene oxide for high surface electrode hybrid supercapacitors. <i>Nanoscale</i> , 2018, 10, 1877-1884.	2.8	163
3496	Self-assembly of polyoxometalate/reduced graphene oxide composites induced by ionic liquids as a high-rate cathode for batteries: "killing two birds with one stone". <i>Journal of Materials Chemistry A</i> , 2018, 6, 1743-1750.	5.2	25
3497	Bioinspired Synthesis of Melaninlike Nanoparticles for Highly N-Doped Carbons Utilized as Enhanced CO ₂ Adsorbents and Efficient Oxygen Reduction Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2324-2333.	3.2	14
3498	Embedding hollow Co ₃ O ₄ nanoboxes into a three-dimensional macroporous graphene framework for high-performance energy storage devices. <i>Nano Research</i> , 2018, 11, 2836-2846.	5.8	31

#	ARTICLE	IF	CITATIONS
3499	Modern Applications of Green Chemistry. , 2018, , 771-860.		4
3500	A bi-functional WO ₃ -based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. Energy Storage Materials, 2018, 12, 79-84.	9.5	18
3501	Group 6 transition metal dichalcogenide nanomaterials: synthesis, applications and future perspectives. Nanoscale Horizons, 2018, 3, 90-204.	4.1	309
3502	Holey 2D Nanomaterials for Electrochemical Energy Storage. Advanced Energy Materials, 2018, 8, 1702179.	10.2	293
3503	Electrochemical Properties of Boron-Doped Fullerene Derivatives for Lithium-Ion Battery Applications. ChemPhysChem, 2018, 19, 753-758.	1.0	37
3504	In Situ Synthesis of Nitrogen- and Sulfur-Enriched Hierarchical Porous Carbon for High-Performance Supercapacitor. Energy & Fuels, 2018, 32, 908-915.	2.5	37
3505	Electron transport shuttle mechanism <i>via</i> an Fe-N-C bond derived from a conjugated microporous polymer for a supercapacitor. Dalton Transactions, 2018, 47, 852-858.	1.6	30
3506	PtRu nanoparticles embedded in nitrogen doped carbon with highly stable CO tolerance and durability. Nanotechnology, 2018, 29, 055402.	1.3	8
3507	Electrochemical performances of iron-cobalt oxides nanoparticles loaded crumpled graphene for supercapacitor. Journal of Alloys and Compounds, 2018, 735, 2030-2037.	2.8	43
3508	High conductive, long-term durable, anhydrous proton conductive solid-state electrolyte based on a metal-organic framework impregnated with binary ionic liquids: Synthesis, characteristic and effect of anion. Journal of Power Sources, 2018, 376, 168-176.	4.0	106
3509	Three-dimensional nanoporous N-doped graphene/iron oxides as anode materials for high-density energy storage in asymmetric supercapacitors. Chemical Engineering Journal, 2018, 335, 467-474.	6.6	28
3510	Silver nanowires as the current collector for a flexible in-plane micro-supercapacitor via a one-step, mask-free patterning strategy. Nanotechnology, 2018, 29, 055401.	1.3	24
3511	Multi-scale porous graphene/activated carbon aerogel enables lightweight carbonaceous catalysts for oxygen reduction reaction. Journal of Materials Research, 2018, 33, 1247-1257.	1.2	7
3512	Millimeter-wave irradiation heating for operation of doped CeO ₂ electrolyte-supported single solid oxide fuel cell. Journal of Power Sources, 2018, 374, 92-96.	4.0	14
3513	Facile synthesis of N-doped carbon layer encapsulated Fe ₂ N as an efficient catalyst for oxygen reduction reaction. Carbon, 2018, 127, 636-642.	5.4	77
3514	Pristine Metal-Organic Frameworks and their Composites for Energy Storage and Conversion. Advanced Materials, 2018, 30, e1702891.	11.1	525
3515	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. Advanced Science, 2018, 5, 1700322.	5.6	1,043
3516	Prediction of electrocatalytic activity of boron nanostructures. Chemical Physics Letters, 2018, 691, 131-134.	1.2	2

#	ARTICLE	IF	CITATIONS
3517	Controlled synthesis of NiCo ₂ S ₄ hollow spheres as high-performance electrode materials for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1395-1401.	2.8	43
3518	Mechanisms of Two-Electron versus Four-Electron Reduction of Dioxygen Catalyzed by Earth-Abundant Metal Complexes. <i>ChemCatChem</i> , 2018, 10, 9-28.	1.8	82
3519	Correlation Between Calcination Temperature and Bifunctional Catalytic Activity for Oxygen Electrode Reaction of Bismuth Ruthenate Pyrochlore in KOH Solution. <i>Electrocatalysis</i> , 2018, 9, 146-152.	1.5	1
3520	Reduced graphene oxide modified activated carbon for improving power generation of air-cathode microbial fuel cells. <i>Journal of Materials Research</i> , 2018, 33, 1279-1287.	1.2	8
3521	Self-template synthesis of yolk-shelled NiCo ₂ O ₄ spheres for enhanced hybrid supercapacitors. <i>Applied Surface Science</i> , 2018, 427, 174-181.	3.1	125
3522	Supercapacitor Electrodes Based on Corn Stalk Binderless Activated Carbon. <i>Journal of Physics: Conference Series</i> , 2018, 1120, 012005.	0.3	7
3523	Fabrication and electrochemical performance of La _{0.595} V _{0.005} Sr _{0.4} MnO ₃ . <i>Turkish Journal of Chemistry</i> , 2018, 42, 1479-1498.	0.5	1
3524	A Comprehensive Review on Controlling Surface Composition of Pt-Based Bimetallic Electrocatalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1703597.	10.2	123
3525	Disposed Dry Cells as Sustainable Source for Generation of Few Layers of Graphene and Manganese Oxide for Solid-State Symmetric and Asymmetric Supercapacitor Applications. <i>ChemistrySelect</i> , 2018, 3, 13275-13283.	0.7	24
3526	Highly Flexible Environmentally friendly Printed Supercapacitors. , 2018, , .		3
3527	Impact of trace extrinsic defect formation on the local symmetry transition in spinel LiNi _{0.5} Mn _{1.5} O ₄ systems and their electrochemical characteristics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22749-22757.	5.2	10
3528	Superior cycling stability of a crystalline/amorphous Co ₃ S ₄ core-shell heterostructure for aqueous hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21350-21359.	5.2	56
3529	Laser-reduced graphene-oxide/ferrocene: a 3-D redox-active composite for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20463-20472.	5.2	43
3530	Rhodium metal-rhodium oxide (Rh ₂ O ₃) nanostructures with Pt-like or better activity towards hydrogen evolution and oxidation reactions (HER, HOR) in acid and base: correlating its HOR/HER activity with hydrogen binding energy and oxophilicity of the catalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23531-23541.	5.2	107
3531	Enhanced oxygen reduction on graphene via Y ₅ Si ₃ electride substrate: A first-principles study. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 649-654.	0.6	6
3532	Few-Layer Graphene Sheet-Passivated Porous Silicon Toward Excellent Electrochemical Double-Layer Supercapacitor Electrode. <i>Nanoscale Research Letters</i> , 2018, 13, 242.	3.1	26
3533	3D macro-micro-mesoporous Fe ₂ O ₄ /graphene hydrogel electrode for high-performance 2.5 V aqueous asymmetric supercapacitors. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 707-716.	0.6	8
3534	Ultrasml PtNi Bimetallic Nanoclusters for Oxygen Reduction Reaction in Alkaline Media. <i>International Journal of Electrochemical Science</i> , 2018, 13, 4438-4454.	0.5	5

#	ARTICLE	IF	CITATIONS
3535	Scandium Doping Effect on a Layered Perovskite Cathode for Low-Temperature Solid Oxide Fuel Cells (LT-SOFCs). Applied Sciences (Switzerland), 2018, 8, 2217.	1.3	19
3536	Nanocarbons derived from polymers for electrochemical energy conversion and storage – A review. Synthetic Metals, 2018, 246, 267-281.	2.1	17
3537	Metal oxides in fuel cells. , 2018, , 17-47.		5
3538	Synthesis of CuCo ₂ S ₄ nanosheet arrays on Ni foam as binder-free electrode for asymmetric supercapacitor. International Journal of Hydrogen Energy, 2018, 43, 23372-23381.	3.8	68
3539	Predicting accurate cathode properties of layered oxide materials using the SCAN meta-GGA density functional. Npj Computational Materials, 2018, 4, .	3.5	99
3540	Development of supercapacitor systems based on binary and ternary nanocomposites using chitosan, graphene and polyaniline. Chemical Data Collections, 2018, 17-18, 459-471.	1.1	15
3541	PAN@ZIF-67-Derived –Gypsophila–Like CNFs@Co-CoO Composite as a Cathode for LiO ₂ Batteries. Inorganic Chemistry, 2018, 57, 14476-14479.	1.9	22
3542	Nitrogen-doped graphene aerogel with an open structure assisted by in-situ hydrothermal restructuring of ZIF-8 as excellent Pt catalyst support for methanol electro-oxidation. International Journal of Hydrogen Energy, 2018, 43, 21899-21907.	3.8	22
3543	Design and Optimization of a Hyper-Branched Polyimide Proton Exchange Membrane with Ultra-High Methanol-Permeation Resistivity for Direct Methanol Fuel Cells Applications. Polymers, 2018, 10, 1175.	2.0	6
3544	Facile synthesis of an all-in-one graphene nanosheets@nickel electrode for high-power performance supercapacitor application. RSC Advances, 2018, 8, 41323-41330.	1.7	3
3545	Modelling the State of Charge of Lithium-ion batteries. , 2018, , .		2
3546	Substitution of Acetylene Black by Using Modified Flake Graphite Applied in Activated Carbon Supercapacitors. MATEC Web of Conferences, 2018, 160, 03005.	0.1	0
3547	Minimizing Reactive Current of a High Gain Dual Active Bridge Converter for Supercapacitor Based Energy Storage System Integration. , 2018, , .		4
3548	Influence of the deposition temperature on the properties of electrodeposited nickel hydroxide films: A study performed by EIS. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 238-239, 1-6.	1.7	3
3549	Carbon-Based Nanostructured Materials for Energy and Environmental Remediation Applications. Nanotechnology in the Life Sciences, 2018, , 369-392.	0.4	23
3550	Properties of Ion Complexes and Their Impact on Charge Transport in Organic Solvent-Based Electrolyte Solutions for Lithium Batteries: Insights from a Theoretical Perspective. Batteries, 2018, 4, 62.	2.1	36
3551	A Comprehensive Review of Nanomaterials Developed Using Electrophoresis Process for High-Efficiency Energy Conversion and Storage Systems. Energies, 2018, 11, 3122.	1.6	18
3552	Before Li Ion Batteries. Chemical Reviews, 2018, 118, 11433-11456.	23.0	1,492

#	ARTICLE	IF	CITATIONS
3553	Electrical system design of solar powered electrical recreational boat for Indonesian waters. E3S Web of Conferences, 2018, 67, 04011.	0.2	1
3554	Constructing Successive Active Sites for Metal-free Electrocatalyst with Boosted Electrocatalytic Activities Toward Hydrogen Evolution and Oxygen Reduction Reactions. ChemCatChem, 2018, 10, 5194-5200.	1.8	30
3555	Fabricating a Mn ₃ O ₄ /Ni(OH) ₂ Nanocomposite by Water-Boiling Treatment for Use in Asymmetric Supercapacitors as an Electrode Material. ACS Sustainable Chemistry and Engineering, 2018, 6, 15688-15696.	3.2	30
3556	Characterisations of carbon-fenced conductive silver nanowires-supported hierarchical polyaniline nanowires. Electrochimica Acta, 2018, 292, 435-445.	2.6	13
3557	High performance porous graphene nanoribbons electrodes synthesized via hydrogen plasma and modified by Pt-Ru nanoclusters for charge storage and methanol oxidation. Electrochimica Acta, 2018, 290, 616-625.	2.6	16
3558	The Recycling of Spent Lithium-Ion Batteries: a Review of Current Processes and Technologies. Electrochemical Energy Reviews, 2018, 1, 461-482.	13.1	215
3559	Amorphous aluminum-oxide supercapacitors. Europhysics Letters, 2018, 123, 58004.	0.7	10
3560	Constructing Continuous Proton-Conducting Highways within Sulfonated Poly(Arylene Ether) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 1005.	2.0	17
3561	Iron- δ -Cyanate Dichloro Quinone Primary Battery. ChemistrySelect, 2018, 3, 10281-10286.	0.7	1
3562	Advances in Flexible Supercapacitors for Portable and Wearable Smart Gadgets. , 2018, , 209-246.		5
3563	<i>in situ</i> and <i>ex situ</i> NMR for battery research. Journal of Physics Condensed Matter, 2018, 30, 463001.	0.7	35
3564	Multiscale Structural Engineering of Ni-doped CoO Nanosheets for Zinc-Air Batteries with High Power Density. Advanced Materials, 2018, 30, e1804653.	11.1	131
3565	Thermal Conversion of MOF@MOF: Synthesis of an N-doped Carbon Material with Excellent ORR Performance. ChemPlusChem, 2018, 83, 1044-1051.	1.3	18
3566	Electrochemical energy storage of silver and silver oxide thin films in an aqueous NaCl electrolyte. Journal of Electroanalytical Chemistry, 2018, 829, 59-68.	1.9	42
3567	Enhanced proton conductivity and relative selectivity of sulfonated poly(arylene ether ketone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 187 Electrochimica Acta, 2018, 291, 49-63.	2.6	16
3568	Tea-leaf-residual derived electrocatalyst: Hierarchical pore structure and self nitrogen and fluorine co-doping for efficient oxygen reduction reaction. International Journal of Hydrogen Energy, 2018, 43, 19492-19499.	3.8	33
3569	Present and Future Perspective on Electrode Materials for Rechargeable Zinc-Ion Batteries. ACS Energy Letters, 2018, 3, 2620-2640.	8.8	676
3571	Polymer Blends. Polymers and Polymeric Composites, 2018, , 1-38.	0.6	5

#	ARTICLE	IF	CITATIONS
3572	Nitrogen and sulfur Co-doped graphene inlaid with cobalt clusters for efficient oxygen reduction reaction. <i>Materials Today Energy</i> , 2018, 10, 184-190.	2.5	24
3573	TiO ₂ /MoO ₂ Nanocomposite as Anode Materials for High Power Li-ion Batteries with Exceptional Capacity. <i>International Journal of Electrochemical Science</i> , 2018, 13, 5120-5140.	0.5	6
3574	A Longâ€Cycleâ€Life Selfâ€Doped Polyaniline Cathode for Rechargeable Aqueous Zinc Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16359-16363.	7.2	346
3575	Electrochemical and Chemical Modifications of Electrode Surfaces and Interphases for Liâ€Ion Batteries. , 2018, , 680-693.		0
3576	Mechanistic Study of Pt-Catalyzed Electrooxidation of HCOOH in Acid Medium: Kinetic Considerations on the Effect of Solvation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24871-24884.	1.5	16
3577	Fabrication of Stable and Wellâ€connected Proton Path in Catalyst Layer for High Temperature Polymer Electrolyte Fuel Cells. <i>ChemCatChem</i> , 2018, 10, 5314-5322.	1.8	11
3578	A Longâ€Cycleâ€Life Selfâ€Doped Polyaniline Cathode for Rechargeable Aqueous Zinc Batteries. <i>Angewandte Chemie</i> , 2018, 130, 16597-16601.	1.6	107
3579	Boron Carbon Nitride (BCN) Nanomaterials: Structures, Synthesis and Energy Applications. <i>Current Graphene Science</i> , 2018, 2, 3-14.	0.5	7
3580	Nitrogen and Sulfur Coâ€Doped Porous Carbon Derived from Sophora Flower as an Efficient Oxygen Reduction Electrocatalyst for Zincâ€Air Battery. <i>ChemistrySelect</i> , 2018, 3, 10624-10629.	0.7	11
3581	Towards more Durable Electrochemical Capacitors by Elucidating the Ageing Mechanisms under Different Testing Procedures. <i>ChemElectroChem</i> , 2019, 6, 566-573.	1.7	21
3582	A highly selective proton exchange membrane with highly ordered, vertically aligned, and subnanosized 1D channels for redox flow batteries. <i>Journal of Power Sources</i> , 2018, 406, 35-41.	4.0	17
3583	Synthesis of Platinum Nanocrystals within Iodine Ions Mediated. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-10.	1.5	3
3584	Nitrogen-Phosphorus co-doped Porous Carbon Based on Peanut Shell for Surpercapactor. <i>International Journal of Electrochemical Science</i> , 2018, 13, 6259-6271.	0.5	11
3585	Puzzles and confusions in supercapacitor and battery: Theory and solutions. <i>Journal of Power Sources</i> , 2018, 401, 213-223.	4.0	220
3586	Chemical bath deposition of NiCo ₂ S ₄ nanostructures supported on a conductive substrate for efficient quantum-dot-sensitized solar cells and methanol oxidation. <i>New Journal of Chemistry</i> , 2018, 42, 18824-18836.	1.4	8
3587	Morphology and performance of CoOOH films synthesized via electrochemical oxidation: substrate effects. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3845-3852.	1.2	5
3588	Recent Advances in Aqueous Zinc-Ion Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2480-2501.	8.8	1,553
3590	Dualâ€Carbonâ€Confined Fe ₇ S ₈ Anodes with Enhanced Electrochemical Catalytic Conversion Process for Ultralong Lithium Storage. <i>Chemistry - A European Journal</i> , 2018, 24, 17339-17344.	1.7	39

#	ARTICLE	IF	CITATIONS
3591	Bringing Real-World Energy-Storage Research into a Second-Year Physical-Chemistry Lab Using a MnO ₂ -Based Supercapacitor. <i>Journal of Chemical Education</i> , 2018, 95, 2028-2033.	1.1	7
3592	Nanoarchitected Nitrogen-Doped Graphene/Carbon Nanotube as High Performance Electrodes for Solid State Supercapacitors, Capacitive Deionization, Li-Ion Battery, and Metal-Free Bifunctional Electrocatalysis. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	9
3593	Conducting Copper(I/II)-Metallopolymer for the Electrocatalytic Oxygen Reduction Reaction (ORR) with High Kinetic Current Density. <i>Polymers</i> , 2018, 10, 1002.	2.0	6
3594	Effect of Mn doping on the chemical synthesis of interconnected nanoflakes-like CoS thin films for high performance supercapacitor applications. <i>Ceramics International</i> , 2018, 44, 23102-23108.	2.3	41
3595	Carbon fibers surface-grown with helical carbon nanotubes and polyaniline for high-performance electrode materials and flexible supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 24-32.	1.9	30
3596	Novel Alkaline Zn/Na ^{0.44} MnO ₂ Dual-Ion Battery with a High Capacity and Long Cycle Lifespan. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34108-34115.	4.0	50
3597	Flower-Shaped Self-Assembled Ni _{0.5} Cu _{0.5} Co ₂ O ₄ Porous Architecture: A Ternary Metal Oxide as a High-Performance Charge Storage Electrode Material. <i>ACS Applied Nano Materials</i> , 2018, 1, 5812-5822.	2.4	35
3598	Graphene quantum dots as a novel conductive additive to improve the capacitive performance for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 1-10.	1.9	26
3599	Oxygen Reduction Reaction and Hydrogen Evolution Reaction Catalyzed by Pd-Ru Nanoparticles Encapsulated in Porous Carbon Nanosheets. <i>Catalysts</i> , 2018, 8, 329.	1.6	48
3600	2D-Pnictogens: alloy-based anode battery materials with ultrahigh cycling stability. <i>Chemical Society Reviews</i> , 2018, 47, 6964-6989.	18.7	100
3601	Electrochemical Oxidation of Sulphite in Neutral Media on Platinum Anode. <i>International Journal of Electrochemical Science</i> , 2018, 13, 4466-4478.	0.5	10
3602	N-doped carbon modified Pt/CNTs synthesized by atomic layer deposition with enhanced activity and stability for methanol electrooxidation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1038-1043.	6.9	12
3603	Simple synthesis of nitrogen-doped carbon spheres as a highly efficient metal-free electrocatalyst for the oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1138-1145.	6.9	11
3604	Enabling redox chemistry with hierarchically designed bilayered nanoarchitectures for pouch-type hybrid supercapacitors: A sunlight-driven rechargeable energy storage system to portable electronics. <i>Nano Energy</i> , 2018, 50, 448-461.	8.2	75
3605	Defects, Dopants and Lithium Mobility in Li ₉ V ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ . <i>Scientific Reports</i> , 2018, 8, 8140.	1.6	23
3606	Mesoporous Manganese Phosphonate Nanorods as a Prospective Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19739-19745.	4.0	38
3607	Nanoengineered Ultralight Organic Cathode Based on Aromatic Carbonyl Compound/Graphene Aerogel for Green Lithium and Sodium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8392-8399.	3.2	63
3608	Graphene-wrapped nitrogen-doped hollow carbon spheres for high-activity oxygen electroreduction. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1489-1497.	3.2	19

#	ARTICLE	IF	CITATIONS
3609	Highly efficient supercapacitor using single-walled carbon nanotube electrodes and ionic liquid incorporated solid gel electrolyte. <i>High Performance Polymers</i> , 2018, 30, 971-977.	0.8	26
3610	Polyoxotungstate@Carbon Nanocomposites As Oxygen Reduction Reaction (ORR) Electrocatalysts. <i>Langmuir</i> , 2018, 34, 6376-6387.	1.6	41
3611	Probing the electrical properties and energy storage performance of electrospun ZnMn ₂ O ₄ nanofibers. <i>Solid State Ionics</i> , 2018, 321, 75-82.	1.3	40
3612	Facile synthesis of a two-dimensional layered Ni-MOF electrode material for high performance supercapacitors. <i>RSC Advances</i> , 2018, 8, 17747-17753.	1.7	55
3613	Electrophoretically-Deposited Nano-Fe ₃ O ₄ @carbon 3D Structure on Carbon Fiber as High-Performance Supercapacitors. <i>Journal of Electronic Materials</i> , 2018, 47, 4807-4812.	1.0	14
3614	Novel porous Fe _x CyNz/N-doped CNT nanocomposites with excellent bifunctions for catalyzing oxygen reduction reaction and absorbing electromagnetic wave. <i>Applied Surface Science</i> , 2018, 453, 83-92.	3.1	22
3615	Molten salt synthesis of Mn ₂ O ₃ nanoparticle as a battery type positive electrode material for hybrid capacitor in KNO ₃ -NaNO ₂ -NaNO ₃ melts. <i>Chemical Engineering Journal</i> , 2018, 349, 613-621.	6.6	16
3616	Role of asymmetry in the physiochemical and electrochemical behaviors of perfluorinated sulfonimide anions for lithium batteries: A DFT study. <i>Electrochimica Acta</i> , 2018, 280, 290-299.	2.6	26
3617	Hybrid lithium-ion capacitor with LiFePO ₄ /AC composite cathode – Long term cycle life study, rate effect and charge sharing analysis. <i>Journal of Power Sources</i> , 2018, 392, 285-295.	4.0	55
3618	Intercalation pseudocapacitance in flexible and self-standing V ₂ O ₃ porous nanofibers for high-rate and ultra-stable K ion storage. <i>Nano Energy</i> , 2018, 50, 462-467.	8.2	177
3619	3D Interconnected Binder-Free Electrospun MnO@C Nanofibers for Supercapacitor Devices. <i>Scientific Reports</i> , 2018, 8, 7988.	1.6	113
3620	Hierarchical porous carbons from a sodium alginate/bacterial cellulose composite for high-performance supercapacitor electrodes. <i>Applied Surface Science</i> , 2018, 455, 795-807.	3.1	52
3621	Atomistic interpretation of the ac-dc crossover frequency in crystalline and glassy ionic conductors. <i>Journal of Chemical Physics</i> , 2018, 148, 204507.	1.2	5
3622	Sulfur-doped microporous carbons developed from coal for enhanced capacitive performances of supercapacitor electrodes. <i>Integrated Ferroelectrics</i> , 2018, 188, 44-56.	0.3	14
3623	Ultrathin Amorphous Iron–Nickel Boride Nanosheets for Highly Efficient Electrocatalytic Oxygen Production. <i>Chemistry - A European Journal</i> , 2018, 24, 18502-18511.	1.7	82
3624	Hybrid crumpled graphene supported Fe-Co binary oxides nanoparticles for aqueous asymmetric supercapacitors. <i>Applied Surface Science</i> , 2018, 448, 571-575.	3.1	11
3625	Microwave synthesis of mesoporous CuCo ₂ S ₄ nanoparticles for supercapacitor applications. <i>Materials Chemistry and Physics</i> , 2018, 215, 121-126.	2.0	42
3626	Oxygen Evolution Catalysts Based on Ir–Ti Mixed Oxides with Templated Mesopore Structure: Impact of Ir on Activity and Conductivity. <i>ChemSusChem</i> , 2018, 11, 2367-2374.	3.6	29

#	ARTICLE	IF	CITATIONS
3627	The properties and performance of carbon produced through the electrochemical reduction of molten carbonate: A study based on step potential electrochemical spectroscopy. <i>Electrochimica Acta</i> , 2018, 278, 340-351.	2.6	19
3628	Nitrogen, Sulfur, Phosphorous Co-doped Interconnected Porous Carbon Nanosheets with High Defect Density for Enhancing Supercapacitor and Lithium-ion Battery Properties. <i>ChemElectroChem</i> , 2018, 5, 2367-2375.	1.7	40
3629	Investigation of electrocatalytic activity on a N-doped reduced graphene oxide surface for the oxygen reduction reaction in an alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12129-12139.	3.8	33
3630	All-round utilization of biomass derived all-solid-state asymmetric carbon-based supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 528, 349-359.	5.0	70
3631	Lithium recovery from brines: A vital raw material for green energies with a potential environmental impact in its mining and processing. <i>Science of the Total Environment</i> , 2018, 639, 1188-1204.	3.9	318
3632	One-Step Fabrication of Carbon Nanotubes-decorated Sn ₄ P ₃ as a 3D Porous Intertwined Scaffold for Lithium-ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 2150-2156.	1.7	24
3633	Fabrication and electrochemical properties of activated CNF/Cu x Mn _{1-x} Fe ₂ O ₄ composite nanostructures. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	2
3634	Synthesis and Characterization of GO/V ₂ O ₅ Thin Film Supercapacitor. <i>Synthetic Metals</i> , 2018, 242, 37-48.	2.1	27
3635	A graphene oxide polymer brush based cross-linked nanocomposite proton exchange membrane for direct methanol fuel cells. <i>RSC Advances</i> , 2018, 8, 15740-15753.	1.7	34
3636	High performance supercapacitor from activated carbon derived from waste orange skin. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3
3637	A free-standing, flexible PEDOT:PSS film and its nanocomposites with graphene nanoplatelets as electrodes for quasi-solid-state supercapacitors. <i>Nanotechnology</i> , 2018, 29, 395401.	1.3	29
3638	Graphitization induced by KOH etching for the fabrication of hierarchical porous graphitic carbon sheets for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14170-14177.	5.2	66
3639	Electrochemical and Chemical Insertion for Energy Transformation and Switching. <i>Annual Review of Materials Research</i> , 2018, 48, 137-165.	4.3	36
3640	Thermally reduced graphite oxide-titanium dioxide composites for supercapacitors. <i>Chemical Physics Letters</i> , 2018, 706, 421-425.	1.2	22
3641	Rational design of a 3D MoS ₂ /dual-channel graphene framework hybrid as a free-standing electrode for enhanced lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13797-13805.	5.2	23
3642	Electrochemical Mechanism and Structure Simulation of 2D Lithium-ion Battery. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800023.	1.3	20
3643	Recent Progress on Laser Manufacturing of Microsize Energy Devices on Flexible Substrates. <i>Jom</i> , 2018, 70, 1816-1822.	0.9	6
3644	Applications of Organized Films at Solid-Liquid and Liquid-Gas Interfaces. <i>Interface Science and Technology</i> , 2018, 21, 405-425.	1.6	1

#	ARTICLE	IF	CITATIONS
3645	Mn ₃ O ₄ /RGO/SWCNT hybrid film for all-solid-state flexible supercapacitor with high energy density. <i>Electrochimica Acta</i> , 2018, 283, 174-182.	2.6	28
3646	Electrochemical energy storage devices for wearable technology: a rationale for materials selection and cell design. <i>Chemical Society Reviews</i> , 2018, 47, 5919-5945.	18.7	314
3647	Influence of the Fluorination Degree of Organophosphates on Flammability and Electrochemical Performance in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1935-A1942.	1.3	15
3648	Cross-Linked Poly(vinylbenzyl chloride) Anion Exchange Membranes with Long Flexible Multihead for Fuel Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 3479-3487.	2.5	54
3649	Additive-free electrode fabrication with reduced graphene oxide using supersonic kinetic spray for flexible lithium-ion batteries. <i>Carbon</i> , 2018, 139, 195-204.	5.4	19
3650	Host-guest electrocatalyst with cage-confined cuprous sulfide nanoparticles in etched chalcogenide semiconductor zeolite for highly efficient oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 282, 877-885.	2.6	15
3651	Truncated Octahedral High-Voltage Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials for Lithium Ion Batteries: Positive Influences of Ni/Mn Disorder and Oxygen Vacancies. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1886-A1896.	1.3	44
3652	Excellent electrochemical behavior of graphene oxide based aluminum sulfide nanowalls for supercapacitor applications. <i>Energy</i> , 2018, 159, 151-159.	4.5	36
3653	Performance tuning of lithium ion battery cells with area-oversized graphite based negative electrodes. <i>Journal of Power Sources</i> , 2018, 396, 519-526.	4.0	31
3654	Isomeric Equilibria, Nuclear Quantum Effects, and Vibrational Spectra of M ⁺ (H ₂ O) _n ⁺ Clusters, with M = Li, Na, K, Rb, and Cs, through Many-Body Representations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 5811-5821.	1.1	27
3655	Identification and isolation of carbon oxidation and charge redistribution as self-discharge mechanisms in reduced graphene oxide electrochemical capacitor electrodes. <i>Carbon</i> , 2018, 139, 299-308.	5.4	32
3656	Negatively charged boron nitride nanosheets as a potential metal-free electrocatalyst for the oxygen reduction reaction: a computational study. <i>New Journal of Chemistry</i> , 2018, 42, 12838-12844.	1.4	12
3657	Stabilizing NiCo ₂ O ₄ hybrid architectures by reduced graphene oxide interlayers for improved cycling stability of hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22106-22114.	5.2	88
3658	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. <i>Springer Series on Polymer and Composite Materials</i> , 2018, , 459-541.	0.5	1
3659	Self-discharge of a hybrid supercapacitor with incorporated galvanic cell components. <i>Energy</i> , 2018, 159, 1035-1045.	4.5	20
3660	Catalyst Support in Oxygen Electrocatalysis: A Case Study with CoFe Alloy Electrocatalyst. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15843-15852.	1.5	43
3661	Advanced Nanomaterials for Green Energy. , 2018, , 457-472.		14
3662	Ionic liquid directed construction of foam-like mesoporous boron-doped graphitic carbon nitride electrode for high-performance supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 261-271.	5.0	26

#	ARTICLE	IF	CITATIONS
3663	Exploration of the modification of carbon-based substrate surfaces in aqueous rechargeable zinc ion batteries. RSC Advances, 2018, 8, 26906-26909.	1.7	6
3664	Synthesis and Supercapacitor Performance of Polyaniline/Nitrogen-Doped Ordered Mesoporous Carbon Composites. Nanoscale Research Letters, 2018, 13, 163.	3.1	37
3665	An Extremely Simple Method for Protecting Lithium Anodes in Li ⁺ Batteries. Angewandte Chemie, 2018, 130, 12996-13000.	1.6	40
3666	Transition-Metal Oxides Anchored on Nitrogen-Enriched Carbon Ribbons for High-Performance Pseudocapacitors. Chemistry - A European Journal, 2018, 24, 16104-16112.	1.7	22
3667	Energy and environmental applications of graphene and its derivatives. , 2018, , 105-129.		3
3668	Few-layer graphdiyne doped with sp-hybridized nitrogen atoms at acetylenic sites for oxygen reduction electrocatalysis. Nature Chemistry, 2018, 10, 924-931.	6.6	558
3669	An Extremely Simple Method for Protecting Lithium Anodes in Li ⁺ Batteries. Angewandte Chemie - International Edition, 2018, 57, 12814-12818.	7.2	88
3670	Self-assembly porous metal-free electrocatalysts templated from sulfur for efficient oxygen reduction reaction. Applied Surface Science, 2018, 462, 65-72.	3.1	16
3671	Physical properties and potential applications of two-dimensional metallic transition metal dichalcogenides. Coordination Chemistry Reviews, 2018, 376, 1-19.	9.5	49
3672	Graphene/Ruthenium Active Species Aerogel as Electrode for Supercapacitor Applications. Materials, 2018, 11, 57.	1.3	21
3673	Carbon-Rich Nanomaterials: Fascinating Hydrogen and Oxygen Electrocatalysts. Advanced Materials, 2018, 30, e1800528.	11.1	135
3674	One-step cathodic electrodeposition of a cobalt hydroxide-graphene nanocomposite and its use as a high performance supercapacitor electrode material. RSC Advances, 2018, 8, 26818-26827.	1.7	23
3675	Asymmetric hybrid energy conversion and storage cell of thin Co ₃ O ₄ and N-doped reduced graphene oxide aerogel films. Electrochimica Acta, 2018, 283, 1125-1133.	2.6	4
3676	Sulfidation of NiFe-layered double hydroxides as novel negative electrodes for supercapacitors with enhanced performance. Journal of Alloys and Compounds, 2018, 768, 635-643.	2.8	37
3677	Metallic MoS ₂ for High Performance Energy Storage and Energy Conversion. Small, 2018, 14, e1800640.	5.2	218
3678	Improving energy density of supercapacitors using heteroatom-incorporated three-dimensional macro-porous graphene electrodes and organic electrolytes. Journal of Power Sources, 2018, 399, 83-88.	4.0	33
3679	Proton-Rocking-Chair-Type Redox Capacitors Based on Indium Tin Oxide Electrodes with Multilayer Films Containing Ru Complexes. ACS Applied Materials & Interfaces, 2018, 10, 26990-27000.	4.0	19
3680	Magnetic field induced electrochemical performance enhancement in reduced graphene oxide anchored Fe ₃ O ₄ nanoparticle hybrid based supercapacitor. Journal Physics D: Applied Physics, 2018, 51, 375501.	1.3	50

#	ARTICLE	IF	CITATIONS
3681	High performance carbon supercapacitor electrodes derived from a triazine-based covalent organic polymer with regular porosity. <i>Electrochimica Acta</i> , 2018, 284, 98-107.	2.6	43
3682	Cobalt and Nitrogen Co-Doped Graphene-Carbon Nanotube Aerogel as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions. <i>Catalysts</i> , 2018, 8, 275.	1.6	24
3683	High-performance direct ethanol fuel cell using nitrate reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 17265-17270.	3.8	14
3684	Review of electrical energy storage technologies, materials and systems: challenges and prospects for large-scale grid storage. <i>Energy and Environmental Science</i> , 2018, 11, 2696-2767.	15.6	1,467
3685	p-Phenylenediamine Functionalization Induced 3D Microstructure Formation of Reduced Graphene Oxide for the Improved Electrical double Layer Capacitance in Organic Electrolyte. <i>ChemistrySelect</i> , 2018, 3, 7680-7688.	0.7	13
3686	Polymer nanocomposite materials in energy storage: Properties and applications. , 2018, , 239-282.		7
3687	Pre-Lithiation Strategies for Rechargeable Energy Storage Technologies: Concepts, Promises and Challenges. <i>Batteries</i> , 2018, 4, 4.	2.1	251
3688	Oxygen Reduction Reaction Catalyzed by Noble Metal Clusters. <i>Catalysts</i> , 2018, 8, 65.	1.6	64
3689	A Roadmap for Achieving Sustainable Energy Conversion and Storage: Graphene-Based Composites Used Both as an Electrocatalyst for Oxygen Reduction Reactions and an Electrode Material for a Supercapacitor. <i>Energies</i> , 2018, 11, 167.	1.6	20
3692	Integrated Consolidated Bioprocessing for Conversion of Lignocellulosic Feedstock to Biofuels and Value-Added Bioproducts. , 2018, , 247-273.		2
3693	Hierarchical unidirectional graphene aerogel/polyaniline composite for high performance supercapacitors. <i>Journal of Power Sources</i> , 2018, 397, 189-195.	4.0	44
3694	Low cost bio-derived carbon-sprinkled manganese dioxide as an efficient sulfur host for lithium-sulfur batteries. <i>RSC Advances</i> , 2018, 8, 24261-24267.	1.7	10
3695	Hierarchical three-dimensional manganese doped cobalt phosphide nanowire decorated nanosheet cluster arrays for high-performance electrochemical pseudocapacitor electrodes. <i>Chemical Communications</i> , 2018, 54, 9234-9237.	2.2	65
3696	Printable Nanomaterials for the Fabrication of High-Performance Supercapacitors. <i>Nanomaterials</i> , 2018, 8, 528.	1.9	46
3697	Microporous/mesoporous cobalt hexacyanoferrate nanocubes for long-cycle life asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14897-14905.	1.1	17
3698	All-Solid-State Supercapacitors Based on Flexible Co ₃ O ₄ Nanoflowers/rGO Nanocomposites. <i>Journal of Electronic Materials</i> , 2018, 47, 5987-5992.	1.0	12
3699	Nb-doped rutile titanium dioxide nanorods for lithium-ion batteries. <i>Solid State Sciences</i> , 2018, 83, 115-121.	1.5	20
3700	A pseudocapacitive asymmetric supercapacitor assembled by hollow NiCo ₂ O ₄ hierarchical micro-spheres and nickel-loaded hollow VN hierarchical micro-flowers. <i>Solid State Ionics</i> , 2018, 324, 168-175.	1.3	8

#	ARTICLE	IF	CITATIONS
3701	Copper Nanoflower Assembled by Sub-2 nm Rough Nanowires for Efficient Oxygen Reduction Reaction: High Stability and Poison Resistance and Density Functional Calculations. ACS Applied Materials & Interfaces, 2018, 10, 26233-26240.	4.0	9
3702	Pt(Cu) catalyst on TiO ₂ powder support prepared by photodeposition-galvanic replacement method. Journal of Electroanalytical Chemistry, 2018, 823, 624-632.	1.9	12
3703	One-Step Controllable Synthesis of Mesoporous MgCo ₂ O ₄ Nanosheet Arrays with Ethanol on Nickel Foam as an Advanced Electrode Material for High-Performance Supercapacitors. Chemistry - A European Journal, 2018, 24, 14982-14988.	1.7	37
3704	Surface-modulated palladium-nickel icosahedra as high-performance non-platinum oxygen reduction electrocatalysts. Science Advances, 2018, 4, eaap8817.	4.7	94
3705	Biopolymer Electrolytes for Fuel Cell Applications. , 2018, , 151-166.		22
3706	Hierarchical 3D macrosheets composed of interconnected <i>in situ</i> cobalt catalyzed nitrogen doped carbon nanotubes as superior bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. Journal of Materials Chemistry A, 2018, 6, 15523-15529.	5.2	68
3707	Redox-active, pyrene-based pristine porous organic polymers for efficient energy storage with exceptional cyclic stability. Chemical Communications, 2018, 54, 6796-6799.	2.2	56
3708	One-pot synthesis of highly stable carbon-MoS ₂ nanosphere electrodes using a co-growth mechanism for supercapacitors. New Journal of Chemistry, 2018, 42, 10111-10117.	1.4	16
3709	Facilely prepared oxidized carbon Fiber@Co ₃ O ₄ @RGO as negative electrode for a novel asymmetric supercapacitor with high areal energy and power density. Applied Surface Science, 2018, 450, 66-76.	3.1	25
3710	Flower-like nanostructured V ₃ S ₄ grown on three-dimensional porous graphene aerogel for efficient oxygen reduction reaction. Applied Surface Science, 2018, 450, 348-355.	3.1	23
3711	An extra-long-life supercapacitor based on NiO/C&S composite by decomposition of Ni-based coordination complex. Materials and Design, 2018, 153, 203-210.	3.3	16
3712	Ultrafast microwave-assisted synthesis of nitrogen-doped carbons as electrocatalysts for oxygen reduction reaction. Nanotechnology, 2018, 29, 305708.	1.3	8
3713	Numerical modelling of multiwalled carbon nanotube based supercapacitors. International Journal of Applied Electromagnetics and Mechanics, 2018, 57, 201-207.	0.3	0
3714	Effect of Redox Electrolyte on the Specific Capacitance of SrRuO ₃ -Reduced Graphene Oxide Nanocomposites. Journal of Physical Chemistry C, 2018, 122, 11641-11650.	1.5	15
3715	Cell Configurations and Electrode Materials for Nonaqueous Sodium-Ion Capacitors: The Current State of the Field. Advanced Sustainable Systems, 2018, 2, 1800006.	2.7	25
3716	Metal-organic frameworks and their composites as efficient electrodes for supercapacitor applications. Coordination Chemistry Reviews, 2018, 369, 15-38.	9.5	271
3717	High-Performance Supercapacitors of N-Doped Graphene Aerogel and Its Nanocomposites with Manganese Oxide and Polyaniline. Journal of the Electrochemical Society, 2018, 165, A1430-A1439.	1.3	19
3718	Nitrogen-doped biomass-based hierarchical porous carbon with large mesoporous volume for application in energy storage. Chemical Engineering Journal, 2018, 348, 850-859.	6.6	107

#	ARTICLE	IF	CITATIONS
3719	Polypyrrole based nanocomposites for supercapacitor applications: A review. AIP Conference Proceedings, 2018, , .	0.3	11
3720	Polyaniline- β -Cyclodextrin-Graphene Nanocomposite for Energy Storage Application: Efficiency Enhancement through Radical Cation Stabilization. Journal of the Electrochemical Society, 2018, 165, A2549-A2556.	1.3	8
3721	Facile method for synthesis of Ni^{2+} -Co(OH) ₂ and their supercapacitor properties. Microelectronics International, 2018, 35, 220-230.	0.4	2
3722	Novel Hybrid Energy Conversion and Storage Cell with Photovoltaic and Supercapacitor Effects in Ionic Liquid Electrolyte. Scientific Reports, 2018, 8, 12192.	1.6	28
3723	Activated carbon monoliths derived from bacterial cellulose/polyacrylonitrile composite as new generation electrode materials in EDLC. Carbohydrate Polymers, 2018, 200, 381-390.	5.1	31
3724	Toward sustainable and systematic recycling of spent rechargeable batteries. Chemical Society Reviews, 2018, 47, 7239-7302.	18.7	624
3725	Nanoarchitected electrodes for supercapacitance energy storage. , 2018, , 215-244.		2
3726	Environmentally benign non-fluoro deep eutectic solvent and free-standing rice husk-derived bio-carbon based high-temperature supercapacitors. Electrochimica Acta, 2018, 286, 148-157.	2.6	32
3727	Ruthenium oxide nanostring clusters anchored Graphene oxide nanocomposites for high-performance supercapacitors application. Materials Research Bulletin, 2018, 107, 347-354.	2.7	31
3728	Electrospinning preparation of a large surface area, hierarchically porous, and interconnected carbon nanofibrous network using polysulfone as a sacrificial polymer for high performance supercapacitors. RSC Advances, 2018, 8, 28480-28486.	1.7	18
3729	Insight Observation of Simultaneously Enhanced CO Tolerance and Stability of Pt Electrocatalysts Decorated with Oxygen Vacancy Rich Cerium Oxide. ChemElectroChem, 2018, 5, 3236-3242.	1.7	3
3730	Single pot fabrication of N doped reduced GO (N-rGO) /ZnO-CuO nanocomposite as an efficient electrode material for supercapacitor application. Vacuum, 2018, 157, 145-154.	1.6	39
3731	rGO Functionalized with a Highly Electronegative Keplerate α -Type Polyoxometalate for High \hat{e} Energy \hat{e} Density Aqueous Asymmetric Supercapacitors. Chemistry - an Asian Journal, 2018, 13, 3304-3313.	1.7	38
3732	Hierarchical porous polyaniline supercapacitor electrode from polyaniline/silica self \hat{e} aggregates. Polymer International, 2018, 67, 1670-1676.	1.6	12
3733	Electrophoretic fabrication of proton exchange membranes in fuel cells. Journal of Membrane Science, 2018, 565, 179-185.	4.1	8
3734	The effect of an anionic surfactant on structure and supercapacitive properties of flower-like nickel oxide. Journal of Materials Science: Materials in Electronics, 2018, 29, 17722-17730.	1.1	0
3735	B-site doping effects of $\text{NdBa}_{0.75}\text{Ca}_{0.25}\text{Co}_{2}\text{O}_{5+\delta}$ double perovskite catalysts for oxygen evolution and reduction reactions. Journal of Materials Chemistry A, 2018, 6, 17807-17818.	5.2	50
3736	The Properties of Carbons Derived through the Electrolytic Reduction of Molten Carbonates under Varied Conditions: Part I. A Study Based on Step Potential Electrochemical Spectroscopy. Journal of the Electrochemical Society, 2018, 165, A2608-A2624.	1.3	13

#	ARTICLE	IF	CITATIONS
3737	Impedance Characterization of the Transport Properties of Electrolytes Contained within Porous Electrodes and Separators Useful for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2741-A2749.	1.3	37
3738	Applications of Plasma in Energy Conversion and Storage Materials. <i>Advanced Energy Materials</i> , 2018, 8, 1801804.	10.2	77
3739	Flexible hybrid yarn-shaped supercapacitors based on porous nickel cobalt sulfide nanosheet array layers on gold metalized cotton yarns. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 527-535.	5.0	25
3740	DFT Studies of Perfluorosulfonic Acid Ionomer Degradation in Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20135-20143.	1.5	15
3741	Carbon-Quantum-Derived Nanostructured MnO ₂ and Its Symmetrical Supercapacitor Performances. <i>ChemistrySelect</i> , 2018, 3, 8713-8723.	0.7	36
3742	Nanoestructura de perovskita doble La ₂ NiMnO ₆ obtenido por ruta de citrato para supercapacitores. <i>Revista Materia</i> , 2018, 23, .	0.1	8
3743	Interlayer Hydrogen-Bonded Covalent Organic Frameworks as High-Performance Supercapacitors. <i>Journal of the American Chemical Society</i> , 2018, 140, 10941-10945.	6.6	339
3744	Li ₂ SnO ₃ as a Cathode Material for Lithium-ion Batteries: Defects, Lithium Ion Diffusion and Dopants. <i>Scientific Reports</i> , 2018, 8, 12621.	1.6	34
3745	Direct Laser Writing of Supercapacitors. , 0, , .		1
3746	The progress of metal-free catalysts for the oxygen reduction reaction based on theoretical simulations. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13489-13508.	5.2	82
3747	Modeling 3D-microbatteries based on carbon foams. <i>Electrochimica Acta</i> , 2018, 281, 665-675.	2.6	4
3748	Iron-Catalyzed Graphitic Carbon Materials from Biomass Resources as Anodes for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 2776-2787.	3.6	81
3749	Carbon nitride simultaneously boosted a PtRu electrocatalyst's stability and electrocatalytic activity toward concentrated methanol. <i>Chemical Communications</i> , 2018, 54, 9282-9285.	2.2	26
3750	Solutions for the problems of silicon-carbon anode materials for lithium-ion batteries. <i>Royal Society Open Science</i> , 2018, 5, 172370.	1.1	56
3751	Capacitance response in an aqueous electrolyte of Nb ₂ O ₅ nanochannel layers anodically grown in pure molten o-H ₃ PO ₄ . <i>Electrochimica Acta</i> , 2018, 281, 725-737.	2.6	17
3752	Nitrogen-doped hierarchical porous carbon materials derived from diethylenetriaminepentaacetic acid (DTPA) for supercapacitors. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2384-2391.	5.6	14
3753	Reduced graphene oxide-poly(methyl methacrylate) nanocomposite as a supercapacitor. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46685.	1.3	5
3754	Rational design of MoSe ₂ -NiSe@carbon heteronanostructures for efficient electrocatalytic hydrogen evolution in both acidic and alkaline media. <i>Carbon</i> , 2018, 139, 1-9.	5.4	70

#	ARTICLE	IF	CITATIONS
3755	2.21 Supercapacitors. , 2018, , 663-695.		8
3756	Enabling multi-electron reaction of VOPO_4 to reach theoretical capacity for lithium-ion batteries. <i>Chemical Communications</i> , 2018, 54, 7802-7805.	2.2	51
3757	Performance of water gas shift reaction catalysts: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 549-565.	8.2	240
3758	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. <i>Journal of Power Sources</i> , 2018, 396, 182-206.	4.0	111
3759	Rational design of forest-like nickel sulfide hierarchical architectures with ultrahigh areal capacity as a binder-free cathode material for hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13178-13190.	5.2	82
3760	V_2O_5 nanorod electrode material for enhanced electrochemical properties by a facile hydrothermal method for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018, 42, 11862-11868.	1.4	68
3761	Fiber-type Solar Cells, Nanogenerators, Batteries, and Supercapacitors for Wearable Applications. <i>Advanced Science</i> , 2018, 5, 1800340.	5.6	108
3762	A Rapid One-Pot Synthesis of CuO Rice-Like Nanostructure and Its Structural, Optical and Electrochemical Performance. <i>Journal of Electronic Materials</i> , 2018, 47, 5443-5451.	1.0	7
3763	Performance Trends and Status of Microbial Fuel Cells. , 2018, , 7-24.		4
3764	Bottom-up self-assembly of nano-netting cluster microspheres as high-performance lithium storage materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13321-13330.	5.2	16
3765	Rare earth substituted nanocrystalline LaFeO_3 perovskites and their composites with reduced graphene oxide for enhanced photocatalytic and other potential applications. <i>Materials Research Express</i> , 2018, 5, 065062.	0.8	33
3766	Efficient Oxygen Reduction Reaction (ORR) Catalysts Based on Single Iron Atoms Dispersed on a Hierarchically Structured Porous Carbon Framework. <i>Angewandte Chemie</i> , 2018, 130, 9176-9181.	1.6	105
3767	Efficient Oxygen Reduction Reaction (ORR) Catalysts Based on Single Iron Atoms Dispersed on a Hierarchically Structured Porous Carbon Framework. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9038-9043.	7.2	467
3768	An extra-long-life supercapacitor based on $\text{Co}_3\text{O}_4/\text{NiCo}_2\text{O}_4/\text{NiO}/\text{C}\&\text{S}$ composite by decomposition of Co/Ni-based coordination complex. <i>Journal of Alloys and Compounds</i> , 2018, 764, 684-690.	2.8	17
3769	A novel approach for the quantification of inhomogeneous 3D current distribution in fuel cell electrodes. <i>Journal of Power Sources</i> , 2018, 396, 246-256.	4.0	15
3770	Cation Effects on the Reduction of Colloidal ZnO Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 8924-8933.	6.6	22
3771	A novel core-shell polyaniline/graphene oxide/copper nanocomposite for high performance and low-cost supercapacitors. <i>Chemical Papers</i> , 2019, 73, 119-129.	1.0	23
3772	Metal-Organic Frameworks for Energy. <i>Advanced Energy Materials</i> , 2019, 9, 1801307.	10.2	160

#	ARTICLE	IF	CITATIONS
3773	Poly(ether ether ketone) grafted with sulfoalkylamine as proton exchange membrane. High Performance Polymers, 2019, 31, 528-537.	0.8	4
3774	Improved supercapacitive performance in electrospun TiO ₂ nanofibers through Ta-doping for electrochemical capacitor applications. Catalysis Today, 2019, 325, 33-40.	2.2	27
3775	Fair Scheduling in Resonant Beam Charging for IoT Devices. IEEE Internet of Things Journal, 2019, 6, 641-653.	5.5	27
3776	Enzymatic in situ synthesis of graphene oxide/polypyrrole composites by peroxidase and their electrical capacitance. Canadian Journal of Chemical Engineering, 2019, 97, 869-875.	0.9	3
3777	Tri-high designed graphene electrodes for long cycle-life supercapacitors with high mass loading. Energy Storage Materials, 2019, 17, 349-357.	9.5	58
3778	Engineering 2D Architectures toward High-Performance Micro-Supercapacitors. Advanced Materials, 2019, 31, e1802793.	11.1	202
3779	Entrapment of polysulfides by Al ₂ O ₃ modified separator for high energy Li-S redox flow batteries. Journal of Alloys and Compounds, 2019, 770, 1229-1236.	2.8	30
3780	Nanomaterials for Electrical Energy Storage. , 2019, , 165-206.		12
3781	Low-cost AlCl ₃ /Et ₃ NHCl electrolyte for high-performance aluminum-ion battery. Energy Storage Materials, 2019, 17, 38-45.	9.5	124
3782	Enhanced ion conductivity of poly(ethylene oxide)-based single ion conductors with lithium 1,2,3-triazolate end groups. Journal of Applied Polymer Science, 2019, 136, 46949.	1.3	7
3783	Hierarchical NiCo LDH@rGO/Ni Foam Composite as Electrode Material for High-Performance Supercapacitors. Transactions of Tianjin University, 2019, 25, 266-275.	3.3	17
3784	Free-standing amorphous nanoporous nickel cobalt phosphide prepared by electrochemically delloying process as a high performance energy storage electrode material. Energy Storage Materials, 2019, 17, 300-308.	9.5	60
3785	Facile preparation of etched halloysite@polyaniline nanorods and their enhanced electrochemical capacitance performance. Electrochimica Acta, 2019, 321, 134715.	2.6	14
3786	Preparation and characterization studies of La doped CuS nanospheres by microwave irradiation for high performance supercapacitors. Physica B: Condensed Matter, 2019, 573, 92-101.	1.3	42
3787	Protic Imidazolium Polymer as Ion Conductor for Improved Oxygen Evolution Performance. Polymers, 2019, 11, 1268.	2.0	3
3788	The cube-like porous ZnO/C composites derived from metal organic framework-5 as anodic material with high electrochemical performance for Ni-Zn rechargeable battery. Journal of Power Sources, 2019, 438, 226986.	4.0	40
3789	One-Pot Synthesis of Highly Efficient Carbon-Supported Polyhedral Pt ₃ Ni Alloy Nanoparticles for Oxygen Reduction Reaction. Electrocatalysis, 2019, 10, 613-620.	1.5	12
3790	Revisited insights into charge storage mechanisms in electrochemical capacitors with Li ₂ SO ₄ -based electrolyte. Energy Storage Materials, 2019, 22, 1-14.	9.5	43

#	ARTICLE	IF	CITATIONS
3791	HZIF-based hybrids for electrochemical energy applications. <i>Nanoscale</i> , 2019, 11, 15763-15769.	2.8	18
3792	Recent Progress in the Electrolytes of Aqueous Zinc-Ion Batteries. <i>Chemistry - A European Journal</i> , 2019, 25, 14480-14494.	1.7	312
3793	Stretchable/flexible silver nanowire electrodes for energy device applications. <i>Nanoscale</i> , 2019, 11, 20356-20378.	2.8	90
3794	Mesoporous carbon nanospheres with improved conductivity for electro-catalytic reduction of O ₂ and CO ₂ . <i>Carbon</i> , 2019, 155, 88-99.	5.4	17
3795	Synergy of sp-N and sp ² -N codoping endows graphdiyne with comparable oxygen reduction reaction performance to Pt. <i>Nanoscale</i> , 2019, 11, 16599-16605.	2.8	25
3796	Self-Assembled Nanostructured MoS ₂ Quantum Dot Polyaniline Hybrid Gels for High Performance Solid State Flexible Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 6642-6654.	2.5	30
3797	Molecule-level graphdiyne coordinated transition metals as a new class of bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19651-19659.	1.3	45
3798	Iron phosphide anchored nanoporous carbon as an efficient electrode for supercapacitors and the oxygen reduction reaction. <i>RSC Advances</i> , 2019, 9, 25240-25247.	1.7	16
3799	A neural-network-like catalyst structure for the oxygen reduction reaction: carbon nanotube bridged hollow PtCo alloy nanoparticles in a MOF-like matrix for energy technologies. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19786-19792.	5.2	37
3800	Electrochemical analysis of Na-Ni bimetallic phosphate electrodes for supercapacitor applications. <i>RSC Advances</i> , 2019, 9, 25012-25021.	1.7	26
3801	Synthesis of Jointly Welded Carbon Nanotube Foam @ Ni(OH) ₂ Nanosheet-Based Core-Shell 3D Architecture for Freestanding Flexible Electrode for Supercapacitor Applications. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900670.	1.9	20
3802	Mixed molybdenum and vanadium oxide nanoparticles with excellent high-power performance as Li-ion battery negative electrodes. <i>Electrochimica Acta</i> , 2019, 322, 134695.	2.6	9
3803	Electron Paramagnetic Resonance as a Structural Tool to Study Graphene Oxide: Potential Dependence of the EPR Response. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22556-22563.	1.5	26
3804	Carbon Xerogels Hydrothermally Doped with Bimetal Oxides for Oxygen Reduction Reaction. <i>Materials</i> , 2019, 12, 2446.	1.3	12
3805	Manipulation of Heteroatom Substitution on Nitrogen and Phosphorus Co-Doped Graphene as a High Active Catalyst for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22202-22211.	1.5	29
3806	Electrospun poly(acrylonitrile-co-itaconic acid) as a porous carbon precursor for high performance supercapacitor: study of the porosity induced by <i>in situ</i> porogen activity of itaconic acid. <i>Nanotechnology</i> , 2019, 30, 435401.	1.3	12
3807	Copper-N-SiO ₂ nanoparticles catalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 22926-22935.	3.8	4
3808	MOF-Templated Synthesis of Co ₃ O ₄ @TiO ₂ Hollow Dodecahedrons for High-Storage-Density Lithium-Ion Batteries. <i>ACS Omega</i> , 2019, 4, 13241-13249.	1.6	31

#	ARTICLE	IF	CITATIONS
3809	Everlasting Living and Breathing Gyroid 3D Network in Si@SiO _x /C Nanoarchitecture for Lithium Ion Battery. ACS Nano, 2019, 13, 9607-9619.	7.3	165
3810	Theoretical analysis of oxygen reduction reaction activity on single metal (Ni, Pd, Pt, Cu, Ag, Au) atom supported on defective two-dimensional boron nitride materials. Physical Chemistry Chemical Physics, 2019, 21, 18589-18594.	1.3	29
3811	Ultra-High Surface Area Nitrogen-Doped Carbon Aerogels Derived From a Schiff-Base Porous Organic Polymer Aerogel for CO ₂ Storage and Supercapacitors. Advanced Functional Materials, 2019, 29, 1904785.	7.8	126
3812	Excellent electrochemical performance of SrZrO ₃ nanorods as supercapacitor electrode in aqueous electrolytes. Applied Surface Science, 2019, 495, 143587.	3.1	17
3813	All-solid-state supercapacitors from natural lignin-based composite film by laser direct writing. Applied Physics Letters, 2019, 115, .	1.5	46
3814	Unexpected Performance of Inkjet-Printed Membrane Electrode Assemblies for Proton Exchange Membrane Fuel Cells. Advanced Engineering Materials, 2019, 21, 1900703.	1.6	28
3815	Mutual Insight on Ferroelectrics and Hybrid Halide Perovskites: A Platform for Future Multifunctional Energy Conversion. Advanced Materials, 2019, 31, e1807376.	11.1	91
3816	Fe/N-doped carbon nanofibers with Fe ₃ O ₄ /Fe ₂ C nanocrystals enched as electrocatalysts for efficient oxygen reduction reaction. Inorganic Chemistry Frontiers, 2019, 6, 2296-2303.	3.0	15
3817	Axial heterostructure nanoarray as all-solid-state micro-supercapacitors. International Journal of Energy Research, 2019, 43, 6013-6025.	2.2	1
3818	Enhanced catalytic graphitization of resorcinol formaldehyde derived carbon xerogel to improve its anodic performance for lithium ion battery. Materials Today Communications, 2019, 20, 100569.	0.9	18
3819	Enhanced activity of highly conformal and layered tin sulfide (SnS _x) prepared by atomic layer deposition (ALD) on 3D metal scaffold towards high performance supercapacitor electrode. Scientific Reports, 2019, 9, 10225.	1.6	62
3820	Open source all-iron battery for renewable energy storage. HardwareX, 2019, 6, e00072.	1.1	13
3821	A review of oxygen reduction mechanisms for metal-free carbon-based electrocatalysts. Npj Computational Materials, 2019, 5, .	3.5	480
3822	A facile and large-scale synthesis of NiCo-LDHs@rGO composite for high performance asymmetric supercapacitors. Journal of Alloys and Compounds, 2019, 805, 1096-1105.	2.8	48
3823	Role of operando microscopy techniques on the advancement of sustainable sodium-ion battery anodes. Journal of Power Sources, 2019, 437, 226851.	4.0	16
3824	Electron beam induced synthesis of Ru-rGO and its super capacitive behavior. 2D Materials, 2019, 6, 045030.	2.0	10
3825	A review on transition metal nitrides as electrode materials for supercapacitors. Ceramics International, 2019, 45, 21062-21076.	2.3	108
3826	High lithium sulfide loading electrodes for practical Li/S cells with high specific energy. Nano Energy, 2019, 64, 103891.	8.2	7

#	ARTICLE	IF	CITATIONS
3827	Thin-Film Photoelectrode of p-Type Ni-Doped $\text{Co}_{3-x}\text{O}_{4-x}$ Nanosheets for a Single Hybrid Energy Conversion and Storage Cell. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2444-A2452.	1.3	10
3828	Confinement of Fe_2O_3 nanoparticles in the shell of N-doped carbon hollow microsphere for efficient oxygen reduction reaction. <i>Chemical Engineering Science</i> , 2019, 207, 235-246.	1.9	32
3829	One-pot solvothermal synthesis of $\text{V}_2\text{O}_5/\text{MWCNT}$ composite cathode for Li ion batteries. <i>Applied Surface Science</i> , 2019, 493, 1106-1114.	3.1	15
3830	Supercapacitor to Provide Ancillary Services With Control Coordination. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 5119-5127.	3.3	24
3831	Shape control of hierarchical lithium cobalt oxide using biotemplates for connected nanoparticles. <i>Journal of Power Sources</i> , 2019, 436, 226836.	4.0	11
3832	Carbon-Based Composites for Supercapacitor. , 0, , .		7
3833	A Bio-Fuel Power Generation System With Hybrid Energy Storage Under a Dynamic Programming Operation Strategy. <i>IEEE Access</i> , 2019, 7, 64966-64977.	2.6	7
3834	Non-Fluorinated Polymer Composite Proton Exchange Membranes for Fuel Cell Applications – A Review. <i>ChemPhysChem</i> , 2019, 20, 2016-2053.	1.0	89
3835	Carbon nanotubes: synthesis, properties and engineering applications. <i>Carbon Letters</i> , 2019, 29, 419-447.	3.3	220
3836	Systematic exploration of N, C configurational effects on the ORR performance of Fe-N doped graphene catalysts based on DFT calculations. <i>RSC Advances</i> , 2019, 9, 22656-22667.	1.7	40
3837	Off-centre charge model of the planar electric double layer for asymmetric 2:1/1:2 valencies. <i>Molecular Physics</i> , 2019, 117, 3527-3537.	0.8	5
3838	Oxygen molecule dissociation on heteroatom doped graphdiyne. <i>Applied Surface Science</i> , 2019, 494, 421-429.	3.1	16
3839	Solvothermal synthesis of hierarchical NiS particles as battery-type electrode materials for hybrid supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1068-1076.	2.8	28
3840	Hierarchical NiCo_2S_4 @ Nickel-Cobalt Layered Double Hydroxide Nanotube Arrays on Metallic Cotton Yarns for Flexible Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30384-30390.	4.0	99
3841	A pH-Tailored Anodic Deposition of Hydrous RuO_2 for Supercapacitors. <i>ChemistrySelect</i> , 2019, 4, 8122-8128.	0.7	7
3842	Chemical accuracy in modeling halide ion hydration from many-body representations. <i>Advances in Physics: X</i> , 2019, 4, 1631212.	1.5	32
3843	The application of metal-organic frameworks in electrode materials for lithium-ion and lithium-sulfur batteries. <i>Royal Society Open Science</i> , 2019, 6, 190634.	1.1	37
3844	Butyronitrile-Based Electrolytes for Fast Charging of Lithium-Ion Batteries. <i>Energies</i> , 2019, 12, 2869.	1.6	17

#	ARTICLE	IF	CITATIONS
3845	Flexible Graphene, Graphene Oxide, and Carbon Nanotube-Based Supercapacitors and Batteries. <i>Annalen Der Physik</i> , 2019, 531, 1800507.	0.9	44
3846	Effect of electrical conductivity studies for CuS nanofillers mixed magnesium ion based PVA-PVP blend polymer solid electrolyte. <i>Physica B: Condensed Matter</i> , 2019, 572, 129-138.	1.3	35
3847	Interconnected nanoporous carbon structure delivering enhanced mass transport and conductivity toward exceptional performance in supercapacitor. <i>Journal of Power Sources</i> , 2019, 435, 226811.	4.0	24
3848	Nitrogen-Doped Reduced Graphene Oxide Hydrogel Achieved via a One-Step Hydrothermal Process. <i>ChemNanoMat</i> , 2019, 5, 1144-1151.	1.5	9
3849	Scalable nanomanufacturing of inkjet-printed wearable energy storage devices. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23280-23300.	5.2	44
3850	Layered double hydroxide based on ZnCo@NiCo- nano-architecture on 3D graphene scaffold as an efficient pseudocapacitor. <i>Journal of Power Sources</i> , 2019, 435, 226812.	4.0	41
3851	Controllable Unzipping of Carbon Nanotubes as Advanced Pt Catalyst Supports for Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5446-5455.	2.5	17
3852	Recent Advances and Prospects of Cathode Materials for Rechargeable Aqueous Zinc-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900387.	1.9	169
3853	Nickel-cobalt oxide nanocages derived from cobalt-organic frameworks as electrode materials for electrochemical energy storage with redox electrolyte. <i>Electrochimica Acta</i> , 2019, 319, 31-40.	2.6	14
3854	An efficient platform for the electrooxidation of formaldehyde based on amorphous NiWO ₄ nanoparticles modified electrode for fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113270.	1.9	26
3855	Engineering 3D hybrid electrode composed of ceria nanoparticles embedded in nickel oxides for high-performance supercapacitors. <i>Journal of Applied Physics</i> , 2019, 126, 015103.	1.1	12
3856	Ultrafast, Facile, and Scalable Microwave-Assisted Synthesis Method to Prepare Nickel Sulfide Nanosheets for High Energy Density Hybrid Capacitors. <i>ChemNanoMat</i> , 2019, 5, 1216-1224.	1.5	10
3857	Highly Porous Willow Wood-Derived Activated Carbon for High-Performance Supercapacitor Electrodes. <i>ACS Omega</i> , 2019, 4, 18108-18117.	1.6	111
3858	Encapsulating V ₂ O ₃ Nanoparticles in Carbon Nanofibers with Internal Void Spaces for a Self-Supported Anode Material in Superior Lithium-Ion Capacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19483-19495.	3.2	41
3859	Seamless mode transfer control for master-slave microgrid. <i>IET Power Electronics</i> , 2019, 12, 3158-3165.	1.5	19
3860	Biomass derived carbon materials for electrochemical energy storage devices. <i>Journal of Physics: Conference Series</i> , 2019, 1259, 012013.	0.3	0
3861	Electrocatalytic Oxygen Reduction Reaction over the Au ₂₂ (L ⁸) ₆ Nanocluster with Promising Activity: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27116-27123.	1.5	19
3862	Quasifractal Networks as Current Collectors for Transparent Flexible Supercapacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1906618.	7.8	28

#	ARTICLE	IF	CITATIONS
3863	Porous MoS ₂ /CoS ₂ Nanosheets on Carbon Cloth for All-Solid-State Flexible Asymmetric Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901138.	1.9	21
3864	Study of NiO/CNSs hybrid nanostructure as an electrode material: synthesis and excellent electrochemical performance for application of supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 1181-1191.	1.5	4
3865	Facile synthesis of NiCo ₂ O ₄ /rGO microspheres with high-performance for supercapacitor. <i>Ceramics International</i> , 2019, 45, 23701-23706.	2.3	24
3866	Facile one-pot synthesis of hollow NiCoP nanospheres via thermal decomposition technique and its free-standing carbon composite for supercapacitor application. <i>Journal of Energy Storage</i> , 2019, 25, 100893.	3.9	41
3867	Measurement of Side-Reaction Currents on Electrodes of Lithium-Ion Cells Using a Battery Cycler with a High-Precision Current Source. <i>Electrochemistry</i> , 2019, 87, 188-192.	0.6	10
3868	Polyaniline/Zn-phthalocyanines nanocomposite for protecting zinc electrode in Zn-air battery. <i>Journal of Power Sources</i> , 2019, 443, 227264.	4.0	41
3869	Interrogating the impact of onion-like carbons on the supercapacitive properties of MXene (Ti ₂ CTX). <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	29
3870	Ultrahigh heating rate induced micro-explosive production of graphene for energy storage. <i>Journal of Power Sources</i> , 2019, 442, 227224.	4.0	18
3871	Efficient and methanol resistant noble metal free electrocatalyst for tetraelectronic oxygen reduction reaction. <i>Electrochimica Acta</i> , 2019, 326, 134984.	2.6	14
3872	High-rate aqueous/ionic liquid dual electrolyte supercapacitor using 3D graphene sponge with an ultrahigh pore volume. <i>Electrochimica Acta</i> , 2019, 327, 135014.	2.6	14
3873	Polyaniline based ternary composite with enhanced electrochemical properties and its use as supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2019, 26, 100975.	3.9	25
3874	Cation-Substitution-Tuned Oxygen Electrocatalyst of Spinel Cobaltite MCo ₂ O ₄ (M = Fe, Co, and Ni) Hexagonal Nanoplates for Rechargeable Zn-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3448-A3455.	1.3	8
3877	Few-Layer MoS ₂ Nanosheets Encapsulated in N-Doped Carbon Hollow Spheres as Long-Life Anode Materials for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2019, 25, 14598-14603.	1.7	25
3878	Cyanine-Assisted Exfoliation of Covalent Organic Frameworks in Nanocomposites for Highly Efficient Chemo-Photothermal Tumor Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39503-39512.	4.0	93
3879	Nitrogen-rich hierarchical porous carbon materials with interconnected channels for high stability supercapacitors. <i>New Journal of Chemistry</i> , 2019, 43, 1864-1873.	1.4	6
3880	Blue phosphorene/graphene heterostructure as a promising anode for lithium-ion batteries: a first-principles study with vibrational analysis techniques. <i>Journal of Materials Chemistry A</i> , 2019, 7, 611-620.	5.2	93
3881	Zn nanosheets coated with a ZnS subnanometer layer for effective and durable CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1418-1423.	5.2	63
3882	Nickel-Hydroxide-Nanohexagon-Based High-Performance Electrodes for Supercapacitors: A Systematic Investigation on the Influence of Six Different Carbon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29104-29115.	1.5	28

#	ARTICLE	IF	CITATIONS
3884	Polyoxometalate-based materials for sustainable and clean energy conversion and storage. <i>EnergyChem</i> , 2019, 1, 100021.	10.1	183
3885	Natural biomass derived hard carbon and activated carbons as electrochemical supercapacitor electrodes. <i>Scientific Reports</i> , 2019, 9, 16315.	1.6	209
3886	Hybrid material of polyaniline incorporated industrial waste of fly ash to enhance the electrode performance of polyaniline in supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3231-3242.	1.2	4
3888	Flexible Freestanding MoO ₃ x "Carbon Nanotubes" Nanocellulose Paper Electrodes for Charge-Storage Applications. <i>ChemSusChem</i> , 2019, 12, 5157-5163.	3.6	20
3889	PtM (M = Fe, Co, Ni) Bimetallic Nanoclusters as Active, Methanol-Tolerant, and Stable Catalysts toward the Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6541-6549.	3.2	45
3891	MnO ₂ /SWCNT buckypaper for high performance supercapacitors. <i>Journal of Energy Storage</i> , 2019, 26, 100960.	3.9	9
3892	Design Issues of Thermally Integrated Methanol Reforming Systems for the Production of Hydrogen: Effects of Channel Dimensions and Catalyst Properties. <i>Energy & Fuels</i> , 2019, 33, 12026-12040.	2.5	9
3893	Conductivity, Viscosity, Spectroscopic Properties of Organic Sulfonic Acid solutions in Ionic Liquids. <i>ChemEngineering</i> , 2019, 3, 81.	1.0	5
3894	Exploiting the Condensation Reactions of Acetophenone to Engineer Carbon-Encapsulated Nb ₂ O ₅ Nanocrystals for High-Performance Li and Na Energy Storage Systems. <i>Advanced Energy Materials</i> , 2019, 9, 1902813.	10.2	49
3895	Cotransport of graphene oxides/reduced graphene oxides with BPA in both bare and iron oxides coated quartz sand. <i>Science China Technological Sciences</i> , 2019, 62, 1896-1906.	2.0	8
3896	Tuning Surface Structure of Pd ₃ Pb/Pt _n Pb Nanocrystals for Boosting the Methanol Oxidation Reaction. <i>Advanced Science</i> , 2019, 6, 1902249.	5.6	48
3897	Core-Shell Structured Cobalt Sulfide/Cobalt Aluminum Hydroxide Nanosheet Arrays for Pseudocapacitor Application. <i>Chemistry - an Asian Journal</i> , 2019, 14, 446-453.	1.7	15
3898	Magnetic CoOx@C-Reduced graphene oxide composite with catalytic activity towards hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28163-28172.	3.8	17
3899	Electrolyte selection for supercapacitive devices: a critical review. <i>Nanoscale Advances</i> , 2019, 1, 3807-3835.	2.2	702
3900	Using Hemoglobin as a Performance Enhancer in Rechargeable Lithium-Oxygen Batteries. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23433-23438.	1.5	7
3901	Design Strategies for Vanadium-based Aqueous Zinc-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 16508-16517.	1.6	103
3902	Mechanisms of the performance fading of carbon-based electrochemical capacitors operating in a LiNO ₃ electrolyte. <i>Journal of Power Sources</i> , 2019, 438, 227029.	4.0	27
3903	Hall Effect Measurements of the Double-Layer Capacitance of the Graphene-Electrolyte Interface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22706-22710.	1.5	5

#	ARTICLE	IF	CITATIONS
3904	Untapped Potential of Polymorph MoS ₂ : Tuned Cationic Intercalation for High-Performance Symmetric Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 33955-33965.	4.0	80
3905	Holey C@ZnFe ₂ O ₄ Nanoflakes by Carbon Soot Layer Blasting Approach for High Performance Supercapacitors. ACS Applied Energy Materials, 2019, 2, 6693-6704.	2.5	14
3906	Solid waste-derived carbon as anode for high performance lithium-ion batteries. Diamond and Related Materials, 2019, 98, 107517.	1.8	21
3907	Hierarchical Vertically Aligned Titanium Carbide (MXene) Array for Flexible All-Solid-State Supercapacitor with High Volumetric Capacitance. ACS Applied Energy Materials, 2019, 2, 6834-6840.	2.5	18
3908	Porous materials of nitrogen doped graphene oxide@SnO ₂ electrode for capable supercapacitor application. Scientific Reports, 2019, 9, 12622.	1.6	48
3909	Fabrication of PANI/SnO ₂ Hybrid Nanocomposites via Interfacial Polymerization for High Performance Supercapacitors Applications. Surface Engineering and Applied Electrochemistry, 2019, 55, 463-471.	0.3	9
3910	Reduced graphene oxide/CoS ₂ porous nanoparticle hybrid electrode material for supercapacitor application. RSC Advances, 2019, 9, 26637-26645.	1.7	23
3911	Electrochemical study of graphene-NiCo ₂ O ₄ nanocomposite prepared through solvothermal approach. AIP Conference Proceedings, 2019, , .	0.3	0
3912	Breakthroughs in Designing Commercial-Level Mass-Loading Graphene Electrodes for Electrochemical Double-Layer Capacitors. Matter, 2019, 1, 596-620.	5.0	79
3913	Imidazole-Linked Crystalline Two-Dimensional Polymer with Ultrahigh Proton-Conductivity. Journal of the American Chemical Society, 2019, 141, 14950-14954.	6.6	148
3914	Synthesis of plasma treated nitrogen-doped graphite oxide for supercapacitor applications. Journal of Energy Storage, 2019, 26, 100923.	3.9	21
3915	Sn-C and Se-C Co-Bonding SnSe/Few-Layered Graphene Micro-Nano Structure: Route to a Densely Compacted and Durable Anode for Lithium/Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 36685-36696.	4.0	83
3916	Biomass derived carbon as binder-free electrode materials for supercapacitors. Carbon, 2019, 155, 706-726.	5.4	273
3917	The adsorption and activation of oxygen molecule on nickel clusters doped graphene-based support by DFT. Molecular Catalysis, 2019, 477, 110547.	1.0	12
3918	Charge storage mechanisms of cobalt hydroxide thin film in ionic liquid and KOH electrolytes for asymmetric supercapacitors with graphene aerogel. Electrochimica Acta, 2019, 324, 134854.	2.6	17
3919	Adsorption and Thermal Decomposition of Electrolytes on Nanometer Magnesium Oxide: An in Situ ¹³ C MAS NMR Study. ACS Applied Materials & Interfaces, 2019, 11, 38689-38696.	4.0	19
3920	Pseudocapacitive polycarbazole/Ag ₂ O nanocomposite for supercapacitor applications. AIP Conference Proceedings, 2019, , .	0.3	2
3921	Electrocatalysts for electrooxidation of direct alcohol fuel cell: chemistry and applications. Materials Today Chemistry, 2019, 14, 100182.	1.7	83

#	ARTICLE	IF	CITATIONS
3922	A review on polymer and organic ferroelectrics for flexible high energy storage material. AIP Conference Proceedings, 2019, . .	0.3	2
3923	Production of iron oxide and nickel oxide nanostructural particles, investigation of the supercapacitor and photocatalytic properties. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 725-731.	0.4	7
3924	One-pot synthesis of a CoS-AC electrode in a redox electrolyte for high-performance supercapacitors. Journal of Applied Electrochemistry, 2019, 49, 1069-1077.	1.5	13
3925	Salt-assisted pyrolysis of covalent organic frameworks to porous heteroatom-doped carbons for supercapacitive energy storage. Journal of Materials Chemistry A, 2019, 7, 26829-26837.	5.2	33
3926	Surface of Half-Neutralized Diamine Triflate Ionic Liquids. A Molecular Dynamics Study of Structure, Thermodynamics, and Kinetics of Water Absorption and Evaporation. Journal of Physical Chemistry B, 2019, 123, 8457-8471.	1.2	3
3927	S-Functionalized Mo ₂ C Monolayer as a Novel Electrode Material in Li-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 25052-25060.	1.5	33
3928	Multiscale Multiphase Lithiation and Delithiation Mechanisms in a Composite Electrode Unraveled by Simultaneous Operando Small-Angle and Wide-Angle X-Ray Scattering. ACS Nano, 2019, 13, 11538-11551.	7.3	40
3929	Surface functionalization to abate the irreversible capacity of hard carbons derived from grapefruit peels for sodium-ion batteries. Electrochimica Acta, 2019, 326, 134973.	2.6	30
3930	Interfacial behavior of water-in-salt electrolytes at porous electrodes and its effect on supercapacitor performance. Electrochimica Acta, 2019, 326, 134989.	2.6	59
3931	Ethylene glycol solvent induced expansion of interplanar spacing and 2H-1T phase transformation of molybdenum disulfide nanocomposites for enhanced lithium storage capability. Journal of Alloys and Compounds, 2019, 810, 151959.	2.8	9
3932	Superbending (0°–180°) and High-Voltage Operating Metal-Oxide-Based Flexible Supercapacitor. ACS Applied Materials & Interfaces, 2019, 11, 37665-37674.	4.0	38
3933	Two-Dimensional Closed Conjugated Covalent Organic Polymers for Oxygen Reduction Reaction. Frontiers in Materials, 2019, 6, .	1.2	3
3934	The impact of humic acid on metaldehyde adsorption onto powdered activated carbon in aqueous solution. RSC Advances, 2019, 9, 11-22.	1.7	13
3935	A chitosan/poly(ethylene glycol)-poly(propylene glycol) blend as an eco-benign separator and binder for quasi-solid-state supercapacitor applications. Sustainable Energy and Fuels, 2019, 3, 760-773.	2.5	35
3936	Supercapacitive retention of electrochemically active phosphotungstic acid supported poly(diphenylamine)/MnO ₂ hybrid electrode. Materials Letters, 2019, 241, 144-147.	1.3	33
3937	Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. Nature Chemistry, 2019, 11, 382-389.	6.6	180
3938	Phase evolution in calcium molybdate nanoparticles as a function of synthesis temperature and its electrochemical effect on energy storage. Nanoscale Advances, 2019, 1, 565-580.	2.2	49
3939	Functionalization of the carbon additive of a high-voltage Li-ion cathode. Journal of Materials Chemistry A, 2019, 7, 1585-1597.	5.2	21

#	ARTICLE	IF	CITATIONS
3940	Tailoring natural layered \hat{I}^2 -phase antimony into few layer antimonene for Li storage with high rate capabilities. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3238-3243.	5.2	54
3941	Designing oxygen bonding between reduced graphene oxide and multishelled Mn_3O_4 hollow spheres for enhanced performance of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6686-6694.	5.2	103
3942	Porous nitrogen-doped carbon nanofibers assembled with nickel nanoparticles for lithium-sulfur batteries. <i>Nanoscale</i> , 2019, 11, 647-655.	2.8	66
3943	An Ultra-High-Energy Density Supercapacitor; Fabrication Based on Thiol-functionalized Graphene Oxide Scrolls. <i>Nanomaterials</i> , 2019, 9, 148.	1.9	63
3944	Tailoring FeN_4 Sites with Edge Enrichment for Boosted Oxygen Reduction Performance in Proton Exchange Membrane Fuel Cell. <i>Advanced Energy Materials</i> , 2019, 9, 1803737.	10.2	148
3945	Recent Progress in Stretchable Batteries for Wearable Electronics. <i>Batteries and Supercaps</i> , 2019, 2, 181-199.	2.4	98
3946	Electrochemical activation of vertically grown graphene nanowalls synthesized by plasma-enhanced chemical vapor deposition for high-voltage supercapacitors. <i>Electrochimica Acta</i> , 2019, 300, 324-332.	2.6	19
3947	A Novel Structure for Heat Transfer Enhancement in Phase Change Composite: Rolled Graphene Film Embedded in Graphene Foam. <i>ACS Applied Energy Materials</i> , 2019, 2, 1192-1198.	2.5	24
3948	A $Ni(OH)_2$ nanopetals network for high-performance supercapacitors synthesized by immersing Ni nanofoam in water. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 281-293.	1.5	22
3949	A molecular engineering approach to pore-adjustable nanoporous carbons with narrow distribution for high-performance supercapacitors. <i>Chemical Communications</i> , 2019, 55, 2305-2308.	2.2	24
3950	Preparation of $Fe-C$ nanofiber composites by metal organic complex and potential application in supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 4665-4675.	1.1	10
3951	Review of supercapacitors: Materials and devices. <i>Journal of Energy Storage</i> , 2019, 21, 801-825.	3.9	1,268
3952	Fabrication of 9.6%V High-performance Asymmetric Supercapacitors Stack Based on Nickel Hexacyanoferrate-derived $Ni(OH)_2$ Nanosheets and Bio-derived Activated Carbon. <i>Scientific Reports</i> , 2019, 9, 1104.	1.6	105
3953	Large-scale $Co_9S_8@C$ hybrids with tunable carbon thickness for high-rate and long-term performances of an aqueous battery. <i>Nanoscale</i> , 2019, 11, 3741-3747.	2.8	5
3954	Porous nanorods of nickel-cobalt double hydroxide prepared by electrochemical co-deposition for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 15-22.	5.0	27
3955	Flexible Supercapacitors: A Materials Perspective. <i>Frontiers in Materials</i> , 2019, 5, .	1.2	125
3956	Factors influencing Li^+ migration in garnet-type ceramic electrolytes. <i>Journal of Materiomics</i> , 2019, 5, 214-220.	2.8	7
3957	Study of energy storage systems and environmental challenges of batteries. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 104, 192-208.	8.2	479

#	ARTICLE	IF	CITATIONS
3958	Theoretical simulation of the optimal relation between active material, binder and conductive additive for lithium-ion battery cathodes. <i>Energy</i> , 2019, 172, 68-78.	4.5	39
3959	A 3D walking palm-like core-shell CoMoO ₄ @NiCo ₂ S ₄ @nickel foam composite for high-performance supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 3853-3861.	1.6	103
3960	Iron oxide-based nanomaterials for supercapacitors. <i>Nanotechnology</i> , 2019, 30, 204002.	1.3	47
3961	Zwitterions for Organic/Perovskite Solar Cells, Light-Emitting Devices, and Lithium Ion Batteries: Recent Progress and Perspectives. <i>Advanced Energy Materials</i> , 2019, 9, 1803354.	10.2	68
3962	Facile Synthesis of Molybdenum Disulfide/Carbon Nanocomposites in Polyacrylic Acid Hydrogel as Anode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2019, 7, 1801147.	1.8	7
3963	Composition-dependent lithium storage performances of SnS/SnO ₂ heterostructures sandwiching between spherical graphene. <i>Electrochimica Acta</i> , 2019, 300, 253-262.	2.6	35
3964	Control of Phase Separation in Polystyrene/Ionic Liquid-Blended Films by Polymer Brush-Grafted Particles. <i>Langmuir</i> , 2019, 35, 3733-3747.	1.6	9
3965	Porous V ₂ O ₅ nanorods/reduced graphene oxide composites for high performance symmetric supercapacitors. <i>Applied Surface Science</i> , 2019, 478, 383-392.	3.1	73
3966	High-Performance Quasi-Solid-State Supercapacitor Based on CuO Nanoparticles with Commercial-Level Mass Loading on Ceramic Material La _{1-x} Sr _x CoO _{3-δ} as Cathode. <i>ACS Applied Energy Materials</i> , 2019, 2, 1480-1488.	2.5	22
3967	Defect Chemistry and Li-ion Diffusion in Li ₂ RuO ₃ . <i>Scientific Reports</i> , 2019, 9, 550.	1.6	28
3968	Multiscale honeycomb-structured activated carbon obtained from nitrogen-containing mandarin peel: high-performance supercapacitors with significant cycling stability. <i>New Journal of Chemistry</i> , 2019, 43, 3486-3492.	1.4	17
3969	Critical Review of the Use of Reference Electrodes in Li-Ion Batteries: A Diagnostic Perspective. <i>Batteries</i> , 2019, 5, 12.	2.1	103
3970	Co ₃ O ₄ nanocrystals grown on graphene nanosheets for high-performance supercapacitor with excellent rate capability. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 634-640.	1.1	3
3971	Fabrication of an Advanced Asymmetric Supercapacitor Based on Three-Dimensional Copper-Nickel-Cerium-Cobalt Quaternary Oxide and GNP for Energy Storage Application. <i>ACS Applied Electronic Materials</i> , 2019, 1, 189-197.	2.0	66
3972	Stress-Induced Crystallization of Thin Hf _{1-x} Zr _x O ₂ Films: The Origin of Enhanced Energy Density with Minimized Energy Loss for Lead-Free Electrostatic Energy Storage Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5208-5214.	4.0	28
3973	A general dual-templating approach to biomass-derived hierarchically porous heteroatom-doped carbon materials for enhanced electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2019, 12, 648-655.	15.6	318
3974	Rapid synthesis of Ni(OH) ₂ /graphene nanosheets and NiO@Ni(OH) ₂ /graphene nanosheets for supercapacitor applications. <i>New Journal of Chemistry</i> , 2019, 43, 3091-3098.	1.4	30
3975	Electrocatalytic Oxidation of Small Molecule Alcohols over Pt, Pd, and Au Catalysts: The Effect of Alcohol's Hydrogen Bond Donation Ability and Molecular Structure Properties. <i>Catalysts</i> , 2019, 9, 387.	1.6	42

#	ARTICLE	IF	CITATIONS
3976	Heteroatom-doped hollow carbon spheres made from polyaniline as an electrode material for supercapacitors. RSC Advances, 2019, 9, 15868-15873.	1.7	8
3977	Effect of Precursor on the Morphology and Supercapacitor Performance of CuCo ₂ O ₄ . International Journal of Electrochemical Science, 2019, 14, 3885-3896.	0.5	27
3978	Introduction to Nanosensors. , 2019, , 1-46.		4
3979	Engineering the volumetric effect of Polypyrrole for auto-deformable supercapacitor. Chemical Engineering Journal, 2019, 374, 59-67.	6.6	33
3980	Facile preparation of porefilled membranes based on poly(ionic liquid) with quaternary ammonium and tertiary amine head groups for AEMFCs. Solid State Ionics, 2019, 338, 58-65.	1.3	8
3981	Fabrication of an Advanced Symmetric Supercapattery Based on Nanostructured Bismuthâ€Cobaltâ€Zinc Ternary Oxide Anchored on Silicon Carbide Hybrid Composite Electrode. Energy Technology, 2019, 7, 1900387.	1.8	14
3982	Hollow MoS ₂ /rGO composites as high-performance anode materials for lithium-ion batteries. Ionics, 2019, 25, 4659-4666.	1.2	12
3983	High-performance asymmetric supercapacitor based on vanadium dioxide/activated expanded graphite composite and carbon-vanadium oxynitride nanostructures. Electrochimica Acta, 2019, 316, 19-32.	2.6	23
3984	Amorphous Rhenium Disulfide Nanosheets: A Methanol-Tolerant Transition Metal Dichalcogenide Catalyst for Oxygen Reduction Reaction. ACS Applied Nano Materials, 2019, 2, 4480-4488.	2.4	17
3985	A photocapacitor with high working voltage and energy density. Sustainable Energy and Fuels, 2019, 3, 1937-1942.	2.5	21
3986	Effective enhancement of electrochemical energy storage of cobalt-based nanocrystals by hybridization with nitrogen-doped carbon nanocages. Science China Materials, 2019, 62, 1393-1402.	3.5	8
3987	Facilely Hierarchical Growth of N-Doped Carbon-Coated NiCo ₂ O ₄ Nanowire Arrays on Ni Foam for Advanced Supercapacitor Electrodes. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	4
3988	Low-cost high-performance asymmetric supercapacitors based on ribbon-like Ni(OH) ₂ and biomass carbon nanofibers enriched with nitrogen and phosphorus. Ionics, 2019, 25, 4341-4350.	1.2	10
3989	Paper-based porous graphene/single-walled carbon nanotubes supported Pt nanoparticles as freestanding catalyst for electro-oxidation of methanol. Applied Catalysis B: Environmental, 2019, 257, 117886.	10.8	46
3990	Progress on Electrolytes Development in Dye-Sensitized Solar Cells. Materials, 2019, 12, 1998.	1.3	152
3991	Mechanistic Understanding of the Effect of Surface Composition of Ptâ€Ru Bimetallic Alloy Electrocatalysts on HCOOH Oxidation Pathways at Acid Electrochemical Interface. ChemistrySelect, 2019, 4, 7190-7199.	0.7	0
3992	Tackling the Challenges of Enzymatic (Bio)Fuel Cells. Chemical Reviews, 2019, 119, 9509-9558.	23.0	321
3993	In-situ activation endows the integrated Fe ₃ C/Fe@nitrogen-doped carbon hybrids with enhanced pseudocapacitance for electrochemical energy storage. Chemical Engineering Journal, 2019, 375, 122061.	6.6	45

#	ARTICLE	IF	CITATIONS
3994	Ragone Relations for Thermal Energy Storage Technologies. <i>Frontiers in Mechanical Engineering</i> , 2019, 5, .	0.8	10
3995	Synthesis, crystal structure and possible proton conduction of Fe(H ₂ PO ₄) ₂ F. <i>Solid State Ionics</i> , 2019, 338, 134-137.	1.3	1
3996	Cs ₃ Bi ₂ I ₉ as high-performance electrode material achieving high capacitance and stability in an economical supercapacitor. <i>JPhys Energy</i> , 2019, 1, 034001.	2.3	15
3997	Efficient oxygen reduction on sandwich-like metal@N-C composites with ultrafine Fe nanoparticles embedded in N-doped carbon nanotubes grafted on graphene sheets. <i>Nanoscale</i> , 2019, 11, 12610-12618.	2.8	26
3998	Polymer Blends. <i>Polymers and Polymeric Composites</i> , 2019, , 513-549.	0.6	4
3999	Flexible polyester yarn/Au/conductive metal-organic framework composites for yarn-shaped supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 847, 113218.	1.9	28
4000	New Directions in Metal Phosphonate and Phosphinate Chemistry. <i>Crystals</i> , 2019, 9, 270.	1.0	81
4001	Nanoporous Cu@Cu ₂ O hybrid arrays enable photo-assisted supercapacitor with enhanced capacities. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15691-15697.	5.2	66
4002	Large-Scale and Low-Cost Motivation of Nitrogen-Doped Commercial Activated Carbon for High-Energy-Density Supercapacitor. <i>ACS Applied Energy Materials</i> , 2019, 2, 4234-4243.	2.5	41
4003	Electrochemical Capacitive Charging in Porous Materials. Discriminating between Ohmic Potential Drop and Counterion Diffusion. <i>ACS Applied Energy Materials</i> , 2019, 2, 4981-4986.	2.5	11
4004	3D flower-like CoNi ₂ S ₄ /polyaniline with high performance for glycerol electrooxidation in an alkaline medium. <i>New Journal of Chemistry</i> , 2019, 43, 10366-10375.	1.4	15
4005	Cascade-Type Prelithiation Approach for Li-Ion Capacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1900078.	10.2	37
4006	Polyoxometalate/hydroquinone dual redox electrolyte for hybrid energy storage systems. <i>Energy Storage Materials</i> , 2019, 21, 427-438.	9.5	28
4007	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18103-18114.	3.8	44
4008	A Host-Guest Supercapacitor Electrode Material Based on a Mixed Hexa-Transition Metal Sandwiched Arsenotungstate Chain and Three-Dimensional Supramolecular Metal-Organic Networks with One-Dimensional Cavities. <i>Inorganic Chemistry</i> , 2019, 58, 7947-7957.	1.9	40
4009	Synergistic properties of molybdenum disulfide (MoS ₂) with electro-active materials for high-performance supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17470-17492.	3.8	45
4010	Trends in Oxygen Electrocatalysis of <i>3d</i> -Layered (Oxy)(Hydro)Oxides. <i>ChemCatChem</i> , 2019, 11, 3423-3431.	1.8	33
4011	Significantly improved cycling stability for electrochemical hydrogen storage in Ti _{1.4} V _{0.6} Ni alloy with TiN. <i>Materials Research Bulletin</i> , 2019, 118, 110509.	2.7	6

#	ARTICLE	IF	CITATIONS
4012	Nano-single crystal coalesced PtCu nanospheres as robust bifunctional catalyst for hydrogen evolution and oxygen reduction reactions. <i>Journal of Catalysis</i> , 2019, 375, 164-170.	3.1	133
4013	Recent Advances in Layer-by-Layer Assembled Conducting Polymer Based Composites for Supercapacitors. <i>Energies</i> , 2019, 12, 2107.	1.6	34
4014	Enhancement performance of carbon electrode for supercapacitors by quinone derivatives loading via solvent-free method. <i>Applied Surface Science</i> , 2019, 491, 784-791.	3.1	26
4015	Chromatographic Techniques in the Research Area of Lithium Ion Batteries: Current State-of-the-Art. <i>Separations</i> , 2019, 6, 26.	1.1	44
4016	Integrated System of Solar Cells with Hierarchical NiCo ₂ O ₄ Battery-Supercapacitor Hybrid Devices for Self-Driving Light-Emitting Diodes. <i>Nano-Micro Letters</i> , 2019, 11, 42.	14.4	67
4017	Comparative electrochemical analysis of rGO-FeVO ₄ nanocomposite and FeVO ₄ for supercapacitor application. <i>Applied Surface Science</i> , 2019, 488, 221-227.	3.1	45
4018	High cell-potential and high-rate neutral aqueous supercapacitors using activated biocarbon: In situ electrochemical gas chromatography. <i>Electrochimica Acta</i> , 2019, 313, 31-40.	2.6	9
4019	Highly Efficient Fe@N-C Electrocatalyst for Oxygen Reduction Derived from Core-Shell-Structured Fe(OH) ₃ @Zeolitic Imidazolate Framework. <i>ACS Applied Energy Materials</i> , 2019, 2, 3194-3203.	2.5	32
4020	Energy storage: pseudocapacitance in prospect. <i>Chemical Science</i> , 2019, 10, 5656-5666.	3.7	99
4021	DC-DC Converter Topologies for Electric Vehicles, Plug-in Hybrid Electric Vehicles and Fast Charging Stations: State of the Art and Future Trends. <i>Energies</i> , 2019, 12, 1569.	1.6	220
4022	Benzoic acid-assisted substrate-free synthesis of ultrathin nanosheets assembled two-dimensional porous Co ₃ O ₄ thin sheets with 3D hierarchical micro-/nano-structures and enhanced performance as battery-type materials for supercapacitors. <i>Electrochimica Acta</i> , 2019, 313, 194-204.	2.6	93
4023	Monitoring the length change of Ni@C composite electrodes during charging/discharging processes. <i>Electrochemistry Communications</i> , 2019, 103, 94-99.	2.3	9
4024	Recent advances of porous transition metal-based nanomaterials for electrochemical energy conversion and storage applications. <i>Materials Today Energy</i> , 2019, 13, 64-84.	2.5	64
4025	Highly Stable and Efficient Performance of Binder-Free Symmetric Supercapacitor Fabricated with Electroactive Polymer Synthesized via Interfacial Polymerization. <i>Materials</i> , 2019, 12, 1626.	1.3	23
4026	Composition- and shape-controlled synthesis of the PtNi alloy nanotubes with enhanced activity and durability toward oxygen reduction reaction. <i>Journal of Power Sources</i> , 2019, 429, 1-8.	4.0	19
4027	A simple method to fabricate N-doped hierarchical porous carbon for supercapacitors. <i>Clean Energy</i> , 2019, 3, 163-172.	1.5	0
4028	Calix[4]resorcinarene-based [Co ₁₆] coordination cages mediated by isomorphous auxiliary ligands for enhanced proton conduction. <i>Chemical Communications</i> , 2019, 55, 6277-6280.	2.2	31
4029	Electrochemical performance of L-tryptophan picrate as an efficient electrode material for supercapacitor application. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 11829-11838.	1.3	22

#	ARTICLE	IF	CITATIONS
4030	The effect of nanoscale architecture on ionic diffusion in rGo/aramid nanofiber structural electrodes. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	12
4031	Redox activity of selenocyanate anion in electrochemical capacitor application. <i>Synthetic Metals</i> , 2019, 253, 62-72.	2.1	22
4032	Grown Carbon Nanotubes on Electrospun Carbon Nanofibers as a 3D Carbon Nanomaterial for High Energy Storage Performance. <i>ChemistrySelect</i> , 2019, 4, 5437-5458.	0.7	15
4033	Boosting ORR/OER Activity of Graphdiyne by Simple Heteroatom Doping. <i>Small Methods</i> , 2019, 3, 1800550.	4.6	149
4034	Natural nanofibers stacked porous nitrogen-doped carbon nanosheets with promising capacitive performance. <i>Cellulose</i> , 2019, 26, 5395-5407.	2.4	2
4035	NiCo ₂ S ₄ Nanotubes Anchored 3D Nitrogen-Doped Graphene Framework as Electrode Material with Enhanced Performance for Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11157-11165.	3.2	73
4036	High-Performance Li-CO ₂ Batteries with \pm -MnO ₂ /CNT Cathodes. <i>Journal of Electronic Materials</i> , 2019, 48, 4653-4659.	1.0	27
4037	Hybrid solar energy harvesting and storage devices: The promises and challenges. <i>Materials Today Energy</i> , 2019, 13, 22-44.	2.5	71
4038	Specific Ion Effects on Hydrogen-Bond Rearrangements in the Halide \cdot Dihydrate Complexes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2823-2828.	2.1	26
4039	Advances in nanostructures fabricated <i>via</i> spray pyrolysis and their applications in energy storage and conversion. <i>Chemical Society Reviews</i> , 2019, 48, 3015-3072.	18.7	260
4040	Recent development of Supercapacitor Electrode Based on Carbon Materials. <i>Nanotechnology Reviews</i> , 2019, 8, 35-49.	2.6	88
4041	Carbon Nanotube Energy Applications. , 2019, , 695-728.		4
4042	A high surface area N-doped holey graphene aerogel with low charge transfer resistance as high performance electrode of non-flammable thermostable supercapacitors. <i>Carbon</i> , 2019, 149, 452-461.	5.4	78
4043	Fuel cell-based self-powered electrochemical sensors for biochemical detection. <i>Nano Energy</i> , 2019, 61, 173-193.	8.2	121
4044	Enhanced reversible capability of a macroporous ZnMn ₂ O ₄ /C microsphere anode with a water-soluble binder for long-life and high-rate lithium-ion storage. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1535-1545.	3.0	22
4045	Coiled Spring-Like Hard Carbon as an Anode Material for Lithium-ion Batteries. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3336-3349.	0.5	1
4046	Synthesis of Metallic and Metal Oxide Particles. <i>Nanoscience and Technology</i> , 2019, , 3-27.	1.5	3
4047	Low-Cost Rapid Template-Free Synthesis of Nanoscale Zinc Spinel for Energy Storage and Electrocatalytic Applications. <i>ACS Applied Energy Materials</i> , 2019, 2, 3211-3219.	2.5	17

#	ARTICLE	IF	CITATIONS
4048	Enhanced pseudocapacitance of amorphous oxy-hydroxides epitaxially grown on intermetallics nanofoam. <i>Journal of Alloys and Compounds</i> , 2019, 788, 961-966.	2.8	2
4049	Pseudo-capacitance of silver oxide thin film electrodes in ionic liquid for electrochemical energy applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 213-222.	1.5	12
4050	A planar supercapacitor made of supramolecular nanofibre based solid electrolyte exhibiting 8 V window. <i>Nano Energy</i> , 2019, 61, 259-266.	8.2	23
4052	Formation of ultra-small Mn ₃ O ₄ nanoparticles trapped in nanochannels of hollow carbon spheres by nanoconfinement with excellent supercapacitor performance. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13675-13683.	3.8	17
4053	Rapid design of a core-shell-like metal hydroxide/oxide composite and activated carbon from biomass for high-performance supercapattery applications. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1707-1720.	3.0	19
4054	Design Strategies for Vanadium-based Aqueous Zinc-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16358-16367.	7.2	538
4055	Synthesis, Characterization and Electrochemical Study of Carbon Nanotube/Chitosan-Ferrocene Nanocomposite Electrode as Supercapacitor Material. <i>Journal of Electronic Materials</i> , 2019, 48, 4573-4581.	1.0	30
4056	Preinserted Li metal porous carbon nanotubes with high Coulombic efficiency for lithium-ion battery anodes. <i>Chemical Engineering Journal</i> , 2019, 373, 78-85.	6.6	19
4057	Polyaniline-manganese dioxide-carbon nanofiber ternary composites with enhanced electrochemical performance for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 843, 22-30.	1.9	24
4058	Recent development of carbon based materials for energy storage devices. <i>Materials Science for Energy Technologies</i> , 2019, 2, 417-428.	1.0	69
4059	Sol-gel synthesis of manganese oxide supercapacitor from manganese recycled from spent Zn-MnO ₂ batteries using organic acid as a leaching agent. <i>Ionics</i> , 2019, 25, 4381-4392.	1.2	22
4060	Planar Ni ₃ as a reversible anode material with high storage capacity for lithium-ion and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13356-13363.	5.2	47
4061	Mechanism of Catalytic O ₂ Reduction by Iron Tetraphenylporphyrin. <i>Journal of the American Chemical Society</i> , 2019, 141, 8315-8326.	6.6	99
4062	Boosting CO tolerance and stability of Pt electrocatalyst supported on sulfonated carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29671-29679.	3.8	4
4063	Nickel Oxide Nanoparticles Supported on Graphitized Carbon for Ethanol Oxidation in NaOH Solution. <i>Journal of Cluster Science</i> , 2019, 30, 1003-1016.	1.7	3
4064	Facile synthesis of ZnWO ₄ @WS ₂ cauliflower-like structures for supercapacitors with enhanced electrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , 2019, 841, 86-93.	1.9	47
4065	Facile synthesis of ternary graphene nanocomposites with doped metal oxide and conductive polymers as electrode materials for high performance supercapacitors. <i>Scientific Reports</i> , 2019, 9, 5974.	1.6	84
4066	Multivalent metal ion hybrid capacitors: a review with a focus on zinc-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13810-13832.	5.2	312

#	ARTICLE	IF	CITATIONS
4067	Preparation of $\text{Fe}_2\text{O}_3/\text{rGO}$ composites toward supercapacitor applications. <i>RSC Advances</i> , 2019, 9, 12793-12800.	1.7	53
4068	Effect of activating agents on the structure and capacitance performance of tofu derived porous carbon. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10274-10283.	1.1	10
4069	Hierarchically Porous MgMn_2O_4 Microspheres Assembled with Nanosheets as High Oxygen Reduction Catalyst. <i>Catalysis Letters</i> , 2019, 149, 1903-1910.	1.4	3
4070	Highly Conductive Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Vinyl Addition Polymerization. <i>ACS Applied Energy Materials</i> , 2019, 2, 2447-2457.	2.5	117
4071	Synthesis Metal-free Nitrogen-doped Porous Carbon by Removing Al from Al-MOFs as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>International Journal of Electrochemical Science</i> , 2019, 14, 3024-3034.	0.5	2
4072	Recent Research on Strategies to Improve Ion Conduction in Alkali Metal-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 403-427.	2.4	32
4073	Electrochemical performance of MOF-5 derived carbon nanocomposites with 1D, 2D and 3D carbon structures. <i>Electrochimica Acta</i> , 2019, 307, 582-594.	2.6	29
4074	On the study of mixing and drying on electrochemical performance of spinel LiMn_2O_4 cathodes. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, 014104.	0.8	3
4075	An Integrated Approach Toward Renewable Energy Storage Using Rechargeable $\text{Ag}@Ni_{0.67}\text{Co}_{0.33}\text{S}_x$ -Based Hybrid Supercapacitors. <i>Small</i> , 2019, 15, e1805418.	5.2	101
4076	Carbon Quantum Dot-Anchored Bismuth Oxide Composites as Potential Electrode for Lithium-Ion Battery and Supercapacitor Applications. <i>ACS Omega</i> , 2019, 4, 4943-4954.	1.6	85
4077	Importance of Electrocatalyst Morphology for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019, 6, 2600-2614.	1.7	45
4078	Biomass-derived ultrathin mesoporous graphitic carbon nanoflakes as stable electrode material for high-performance supercapacitors. <i>Materials and Design</i> , 2019, 169, 107688.	3.3	117
4079	Cobalt oxide-based nanoarchitectures for electrochemical energy applications. <i>Progress in Materials Science</i> , 2019, 103, 596-677.	16.0	166
4080	Bending-durable membrane-electrode assembly using metal nanowires for bendable polymer electrolyte membrane fuel cell. <i>Energy</i> , 2019, 172, 874-880.	4.5	14
4082	Modulating the energy storage of supercapacitors by mixing close-to-ideal and far-from-ideal capacitive carbon nanofibers. <i>Electrochimica Acta</i> , 2019, 301, 465-471.	2.6	6
4083	Preparation and Characterization of Electrospun Gelatin Nanofibers for Use as Nonaqueous Electrolyte in Electric Double-Layer Capacitor. <i>Journal of Nanotechnology</i> , 2019, 2019, 1-11.	1.5	27
4084	High-Loading Carbon Nanotubes on Polymer Nanofibers as Stand-Alone Anode Materials for Li-Ion Batteries. <i>ACS Omega</i> , 2019, 4, 4129-4137.	1.6	14
4085	Graphene Oxide Decorated Nanometal-Poly(Anilino-Dodecylbenzene Sulfonic Acid) for Application in High Performance Supercapacitors. <i>Micromachines</i> , 2019, 10, 115.	1.4	23

#	ARTICLE	IF	CITATIONS
4086	Well-dispersed Nickel and Zinc Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1807771.	11.1	216
4087	Manifesto on the Thermochemistry of Nanoscale Redox Reactions for Energy Conversion. <i>ACS Energy Letters</i> , 2019, 4, 866-872.	8.8	20
4088	Ion-mediated hydrogen-bond rearrangement through tunnelling in the iodide dihydrate complex. <i>Nature Chemistry</i> , 2019, 11, 367-374.	6.6	55
4091	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8330-8335.	7.2	60
4092	Multidimensional nanostructured membrane electrode assemblies for proton exchange membrane fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9447-9477.	5.2	56
4093	Sodium Cobalt Metaphosphate as an Efficient Oxygen Evolution Reaction Catalyst in Alkaline Solution. <i>Angewandte Chemie</i> , 2019, 131, 8418-8423.	1.6	1
4094	Mechanical-to-Electrical Energy Conversion with Variable Electric Double Layers. <i>Energy Technology</i> , 2019, 7, 1801007.	1.8	8
4095	Hierarchical Biocarbons with Controlled Micropores and Mesopores Derived from Kapok Fruit Peels for High-Performance Supercapacitor Electrodes. <i>ACS Omega</i> , 2019, 4, 5991-5999.	1.6	19
4096	Symmetric Supercapacitors Based on MnOOH-Coated Nanoporous Carbon toward High Energy Storage Performance. <i>ChemElectroChem</i> , 2019, 6, 2302-2307.	1.7	11
4097	Designing Carbon/Oxygen Ratios of Graphene Oxide Membranes for Proton Exchange Membrane Fuel Cells. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-9.	1.5	18
4098	Hybridization design of materials and devices for flexible electrochemical energy storage. <i>Energy Storage Materials</i> , 2019, 19, 212-241.	9.5	163
4099	Metal-organic framework composites and their electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7301-7327.	5.2	284
4100	Composition effect of Co/Ni on the morphology and electrochemical properties of $\text{NH}_4\text{Co}_{1-x}\text{Ni}_x\text{PO}_4 \cdot \text{H}_2\text{O}$ nanocrystallites prepared by a facile hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 7794-7807.	1.1	2
4101	V ₂ O ₅ hollow spheres as high rate and long life cathode for aqueous rechargeable zinc ion batteries. <i>Electrochimica Acta</i> , 2019, 306, 307-316.	2.6	167
4102	Halide Ion Microhydration: Structure, Energetics, and Spectroscopy of Small Halide-Water Clusters. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2843-2852.	1.1	35
4103	Efficient Bioelectrochemical Conversion of Industrial Wastewater by Specific Strain Isolation and Community Adaptation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 23.	2.0	4
4105	A simple and practical hybrid ionic liquid/aqueous dual electrolyte configuration for safe and ion-exchange membrane-free high cell potential supercapacitor. <i>Electrochimica Acta</i> , 2019, 305, 443-451.	2.6	10
4106	Fast coprecipitation of nickel-cobalt oxide in a micro-impinging stream reactor for the construction of high-performance asymmetric supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 792, 314-327.	2.8	27

#	ARTICLE	IF	CITATIONS
4107	Rare earth incorporated electrode materials for advanced energy storage. <i>Coordination Chemistry Reviews</i> , 2019, 390, 32-49.	9.5	126
4108	Smartly tailored Co(OH) ₂ -Ni(OH) ₂ heterostructure on nickel foam as binder-free electrode for high-energy hybrid capacitors. <i>Electrochimica Acta</i> , 2019, 309, 140-147.	2.6	27
4109	N-doped reduced graphene oxide decorated NiSe ₂ nanoparticles for high-performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2019, 425, 60-68.	4.0	196
4110	Technology generation and international collaboration in the Global Value Chain of Lithium Batteries. <i>Resources, Conservation and Recycling</i> , 2019, 146, 232-243.	5.3	19
4111	Molecular Catalysts Immobilized on Semiconductor Photosensitizers for Proton Reduction toward Visible-Light-Driven Overall Water Splitting. <i>ChemSusChem</i> , 2019, 12, 1807-1824.	3.6	25
4112	High-conductivity reduced-graphene-oxide/copper aerogel for energy storage. <i>Nano Energy</i> , 2019, 60, 760-767.	8.2	42
4113	Aqueous Al-Ion Supercapacitor with V ₂ O ₅ Mesoporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15573-15580.	4.0	64
4114	Model Based Design of Composite Carbonaceous Anode for Li-Ion Battery for Fast Charging Applications. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1185-A1196.	1.3	7
4115	Understanding of oxygen reduction reaction by examining carbon-oxygen gasification reaction and carbon active sites on metal and heteroatoms free carbon materials of different porosities and structures. <i>Carbon</i> , 2019, 148, 430-440.	5.4	28
4116	Ta ₄ C ₃ MXene as supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2019, 792, 1230-1238.	2.8	103
4117	Hierarchically Porous Carbons Derived from Metal-Organic Framework/Chitosan Composites for High-Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3583-3589.	1.7	19
4118	Nitrogen-doped CNT on CNT hybrid fiber as a current collector for high-performance Li-ion capacitors. <i>Carbon</i> , 2019, 149, 407-418.	5.4	18
4119	Mesoporous carbon nanotube microspheres supported microporous pyrolytic carbon for high-performance supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 423-429.	1.9	9
4120	CoS _x /C hierarchical hollow nanocages from a metal-organic framework as a positive electrode with enhancing performance for aqueous supercapacitors. <i>RSC Advances</i> , 2019, 9, 11253-11262.	1.7	18
4121	The Effect of Surface Reconstruction on the Oxygen Reduction Reaction Properties of LaMnO ₃ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 11621-11627.	1.5	19
4122	Density functional calculations of efficient H ₂ separation from impurity gases (H) Tj ETQq1 1 0.784314 rgBT /Overlock 10 bilayer g-C ₃ N. <i>Chinese Physics B</i> , 2019, 28, 048102.	0.7	14
4123	Evaluation of Nanoporous Carbon Synthesized from Direct Carbonization of a Metal-Organic Complex as a Highly Effective Dye Adsorbent and Supercapacitor. <i>Nanomaterials</i> , 2019, 9, 601.	1.9	15
4124	NiCo ₂ O ₄ bricks as anode materials with high lithium storage property. <i>MRS Advances</i> , 2019, 4, 1861-1868.	0.5	1

#	ARTICLE	IF	CITATIONS
4125	Approaches for measuring the surface areas of metal oxide electrocatalysts for determining their intrinsic electrocatalytic activity. <i>Chemical Society Reviews</i> , 2019, 48, 2518-2534.	18.7	483
4126	Synthesis, structural and electrochemical characterization of Zn doped iron oxide/grapheneoxide/chitosan nanocomposite for supercapacitor application. <i>Vacuum</i> , 2019, 164, 396-404.	1.6	32
4127	First principles study of H ₂ adsorption on Ni-decorated silicene. <i>Materials Research Express</i> , 2019, 6, 055509.	0.8	12
4128	Hollow TiO ₂ submicrospheres assembled by tiny nanocrystals as superior anode for lithium ion battery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23733-23738.	5.2	15
4129	Sol-gel-assisted preparation of SiO ₂ @Co ₃ O ₄ heterostructure from laboratory glass waste as a potential anode for lithium-ion battery. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 676-684.	1.1	12
4130	Impact of designed asymmetries on the effective bandwidth of a backfolded piezoelectric energy harvester. <i>Sensors and Actuators A: Physical</i> , 2019, 292, 77-89.	2.0	4
4131	Electrochemically Activated Nickel-Carbon Composite as Ultrastable Cathodes for Rechargeable Nickel-Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14854-14861.	4.0	47
4132	Synthesis of nitrogen-doped plasma treated graphite for supercapacitor applications. <i>Chemical Physics Letters</i> , 2019, 725, 31-37.	1.2	23
4133	Electrochemical, bonding network and electrical properties of reduced graphene oxide-Fe ₂ O ₃ nanocomposite for supercapacitor electrodes applications. <i>Journal of Alloys and Compounds</i> , 2019, 792, 250-259.	2.8	59
4135	Preparation of polymer electrolyte membranes based on poly(phenylene oxide) with different side chain lengths of phosphonic acid. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1180-1188.	2.5	17
4136	Systematic Comparison of Graphene Materials for Supercapacitor Electrodes. <i>ChemistryOpen</i> , 2019, 8, 418-428.	0.9	36
4137	MOF-derived hierarchical nanosheet arrays constructed by interconnected NiCo-alloy@NiCo-sulfide core-shell nanoparticles for high-performance asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 370, 666-676.	6.6	158
4138	Unique MOF-derived hierarchical MnO ₂ nanotubes@NiCo-LDH/Co ₂ nanocage materials as high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12018-12028.	5.2	207
4139	Yolk-shell Nb ₂ O ₅ microspheres as intercalation pseudocapacitive anode materials for high-energy Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11234-11240.	5.2	80
4140	Review of carbon-based electrode materials for supercapacitor energy storage. <i>Ionics</i> , 2019, 25, 1419-1445.	1.2	318
4141	Recent Advances in Rational Electrode Designs for High-Performance Alkaline Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1807847.	7.8	152
4142	Multiscale Graphene-Based Materials for Applications in Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803342.	10.2	215
4143	Layer-Based Heterostructured Cathodes for Lithium-ion and Sodium-ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1808522.	7.8	82

#	ARTICLE	IF	CITATIONS
4144	From Atoms to Lives: The Evolution of Nanoparticle Assemblies. <i>Advanced Functional Materials</i> , 2019, 29, 1807658.	7.8	44
4145	Suppressing Manganese Dissolution in Potassium Manganate with Rich Oxygen Defects Engaged High-Energy Density and Durable Aqueous Zinc-Ion Battery. <i>Advanced Functional Materials</i> , 2019, 29, 1808375.	7.8	568
4146	Preparation and properties of manipulated carbon nanotube composites and applications. , 2019, , 489-520.		17
4147	Current Scenario of Nanocomposite Materials for Fuel Cell Applications. , 2019, , 557-592.		1
4148	In situ growth of Co ₃ O ₄ nanoflakes on reduced graphene oxide-wrapped Ni-foam as high performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , 2019, 302, 327-337.	2.6	79
4149	Construction of polyaniline/lignin composite with interpenetrating fibrous networks and its improved electrochemical capacitance performances. <i>Synthetic Metals</i> , 2019, 249, 40-46.	2.1	20
4150	1T-MoS ₂ nanosheets confined among TiO ₂ nanotube arrays for high performance supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 366, 163-171.	6.6	105
4151	Effect of polydopamine-modified reduced graphene oxides on the catalytic activity of Pt nanoparticles catalysts for fuel cell electrodes. <i>Carbon Letters</i> , 2019, 29, 47-55.	3.3	10
4152	Biomass-derived porous carbon supported Co CoO yolk-shell nanoparticles as enhanced multifunctional electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6525-6534.	3.8	33
4153	Nanomaterials With Different Dimensions for Electrocatalysis. , 2019, , 435-464.		10
4154	Hydrothermal synthesis of well-standing γ-MnO ₂ nanoplatelets on nitrogen-doped reduced graphene oxide for high-performance supercapacitor. <i>Journal of Alloys and Compounds</i> , 2019, 787, 309-317.	2.8	19
4155	Formation of one dimensional nanorods with microsphere of MnCO ₃ using Ag as dopant to enhance the performance of pseudocapacitors. <i>Materials Chemistry and Physics</i> , 2019, 228, 1-8.	2.0	42
4156	Copper ferrite synthesis from spent Li-ion batteries for multifunctional application as catalyst in photo Fenton process and as electrochemical pseudocapacitor. <i>Materials Research Bulletin</i> , 2019, 113, 231-240.	2.7	27
4157	Unraveling the role of structural water in bilayer V ₂ O ₅ during Zn ²⁺ -intercalation: insights from DFT calculations. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5612-5620.	5.2	132
4158	Heat Generation and Thermal Transport in Lithium-Ion Batteries: A Scale-Bridging Perspective. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2019, 23, 128-156.	1.4	43
4159	Novel dealloying-fabricated NiCo ₂ S ₄ nanoparticles with excellent cycling performance for supercapacitors. <i>Nanotechnology</i> , 2019, 30, 235402.	1.3	13
4160	Multifunctional Ternary Nanocomposites of Ni/Polypyrrole/Reduced Graphene Oxide as Supercapacitor and Electrocatalyst in Methanol Oxidation. <i>ChemistrySelect</i> , 2019, 4, 2529-2537.	0.7	28
4161	A single-atom catalyst of cobalt supported on a defective two-dimensional boron nitride material as a promising electrocatalyst for the oxygen reduction reaction: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6900-6907.	1.3	61

#	ARTICLE	IF	CITATIONS
4162	A nanocomposite of CoFe ₂ O ₄ -carbon microspheres for electrochemical energy storage applications. International Journal of Green Energy, 2019, 16, 476-482.	2.1	16
4163	Covalent organic framework with high capacity for the lithium ion battery anode: insight into intercalation of Li from first-principles calculations. Journal of Physics Condensed Matter, 2019, 31, 205502.	0.7	19
4164	Synergistic Effect of Co-Ni Hybrid Phosphide Nanocages for Ultrahigh Capacity Fast Energy Storage. Advanced Science, 2019, 6, 1802005.	5.6	130
4165	One pot solvothermal synthesis of novel solid state N-Doped TiO ₂ /n-Gr for efficient energy storage devices. Vacuum, 2019, 164, 88-97.	1.6	11
4166	A facile in-situ activation of protonated histidine-derived porous carbon for electrochemical capacitive energy storage. Journal of Industrial and Engineering Chemistry, 2019, 73, 316-327.	2.9	6
4167	Metal-organic framework-derived core-shell-structured nitrogen-doped CoC _x /FeCo@C hybrid supported by reduced graphene oxide sheets as high performance bifunctional electrocatalysts for ORR and OER. Journal of Catalysis, 2019, 371, 185-195.	3.1	78
4168	Gravity-Induced Self-Charging in Carbon Nanotube/Polymer Supercapacitors. Journal of Physical Chemistry C, 2019, 123, 5249-5254.	1.5	21
4169	Hydrothermally Tailored Three-Dimensional Ni-V Layered Double Hydroxide Nanosheets as High-Performance Hybrid Supercapacitor Applications. ACS Omega, 2019, 4, 3257-3267.	1.6	69
4170	Fabric-Integrated, Ionic Liquid-Based Supercapacitor as a Tunable and Flexible Power Source. , 2019, , .		0
4171	Simulation of a fuel cell-battery-ultra capacitor-hybrid-powered electric golf cart. , 2019, , .		1
4172	Amorphous titanium-oxide supercapacitors with high capacitance. Europhysics Letters, 2019, 128, 58001.	0.7	4
4173	Flexible Fractional Supercapacitor Model Analyzed in Time Domain. IEEE Access, 2019, 7, 122626-122633.	2.6	16
4174	Electrochemically active binary anion compounds with tailored oxygen vacancy for energy storage system. Journal of Power Sources, 2019, 444, 227301.	4.0	2
4175	Oscillatory Current Behavior in Energy Storage Electrode Materials. Journal of the Electrochemical Society, 2019, 166, A3620-A3630.	1.3	4
4176	Melamine-assisted synthesis of paper mill sludge-based carbon nanotube/nanoporous carbon nanocomposite for enhanced electrocatalytic oxygen reduction activity. International Journal of Hydrogen Energy, 2019, 44, 31094-31103.	3.8	14
4177	High energy density and high working voltage of a quasi-solid-state supercapacitor with a redox-active ionic liquid added gel polymer electrolyte. New Journal of Chemistry, 2019, 43, 18935-18942.	1.4	29
4178	A hierarchical NiCo ₂ S ₄ honeycomb/NiCo ₂ S ₄ nanosheet core-shell structure for supercapacitor applications. RSC Advances, 2019, 9, 32338-32347.	1.7	6
4179	Fabrication and Characterization of Electrospun Aligned Porous PAN/Graphene Composite Nanofibers. Nanomaterials, 2019, 9, 1782.	1.9	14

#	ARTICLE	IF	CITATIONS
4180	Li ₄ Ti ₅ O ₁₂ /AC Hybrid Supercapacitor combining High Power of Supercapacitor and High Energy of Li-ion battery. <i>Materials Today: Proceedings</i> , 2019, 18, 2625-2631.	0.9	5
4181	Effects of temperatures and carbon dioxide nanobubbles on superior electric storage for anodically oxidized films of AlY10 amorphous alloy. <i>AIP Advances</i> , 2019, 9, 095202.	0.6	6
4182	Atomic layer deposition of ultra-trace Pt catalysts onto a titanium nitride nanowire array for electrocatalytic methanol oxidation. <i>Chemical Communications</i> , 2019, 55, 13283-13286.	2.2	8
4183	<i>In situ</i> ⁷ Li-NMR analysis of lithium metal surface deposits with varying electrolyte compositions and concentrations. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26084-26094.	1.3	41
4184	Characterization and Application of Agave salmiana Cuticle as Bio-Membrane in Low-Temperature Electrolyzer and Fuel Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4461.	1.3	3
4185	PEDOT@Cellulose Gas Diffusion Electrodes for Disposable Fuel Cells. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900097.	2.7	3
4186	Insights into the electrochemical capacitor performance of transition metal@vertical graphene nanosheet hybrid electrodes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25196-25205.	1.3	20
4187	Carbon-Supported Organic Electrode Materials for Aqueous Rechargeable Lithium-Ion Batteries. <i>ChemistrySelect</i> , 2019, 4, 12942-12949.	0.7	1
4188	@CeAl@In@Oe@integrated ultrathin SnS ₂ @3D multichannel carbon matrix power high@areal@capacity lithium battery anode. , 2019, 1, 276-288.		47
4189	Three-dimensional ZnS/reduced graphene oxide/polypyrrole composite for high-performance supercapacitors and lithium-ion battery electrode material. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 3419-3428.	1.2	17
4190	Recrystallization-induced capacity fading of birnessite-type MnO ₂ nanosheets for pseudocapacitors. <i>Materials Research Express</i> , 2019, 6, 126002.	0.8	0
4191	CMK-5-Based High Energy Density Electrical Double Layer Capacitor for AC Line Filtering. <i>ACS Omega</i> , 2019, 4, 18900-18907.	1.6	19
4192	Theoretical investigation of the ORR on boron@silicon nanotubes (B@SiNTs) as acceptable catalysts in fuel cells. <i>RSC Advances</i> , 2019, 9, 31572-31582.	1.7	4
4193	Investigation of Cu doped flake-NiO as an anode material for lithium ion batteries. <i>RSC Advances</i> , 2019, 9, 35948-35956.	1.7	12
4194	Perovskite solar cell-hybrid devices: thermoelectrically, electrochemically, and piezoelectrically connected power packs. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26661-26692.	5.2	24
4195	Adaptation and improvement of an elemental mapping method for lithium ion battery electrodes and separators by means of laser ablation-inductively coupled plasma-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 581-589.	1.9	17
4196	Electrically conductive hydrogels for flexible energy storage systems. <i>Progress in Polymer Science</i> , 2019, 88, 220-240.	11.8	260
4197	Facile electrochemical phosphatization of Mn ₃ O ₄ nanosheet arrays for supercapacitor with enhanced performance. <i>Journal of Materials Science</i> , 2019, 54, 625-637.	1.7	18

#	ARTICLE	IF	CITATIONS
4198	Utilization of nutrient rich duckweed to create N, P Co-doped porous carbons for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 771, 1009-1017.	2.8	31
4199	Flexible supercapacitor electrodes fabricated by dealloying nanocrystallized Al-Ni-Co-Y-Cu metallic glasses. <i>Journal of Alloys and Compounds</i> , 2019, 772, 164-172.	2.8	26
4200	Nickel-based materials for supercapacitors. <i>Materials Today</i> , 2019, 25, 35-65.	8.3	247
4201	Phospho-oxynitride Layer Protected Cobalt Phosphonitride Nanowire Arrays for High-Rate and Stable Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 616-626.	2.5	16
4202	Development of the applications of titanium nitride in fuel cells. <i>Materials Today Chemistry</i> , 2019, 11, 42-59.	1.7	17
4203	Robust 3D Zn Sponges Enable High-Power, Energy-Dense Alkaline Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 212-216.	2.5	69
4204	Cobalt vanadate nanoparticles as bifunctional oxygen electrocatalysts for rechargeable seawater batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 250-254.	2.9	19
4205	One-pot synthesis of unprotected PtPd nanoclusters with enhanced catalytic activity, durability, and methanol-tolerance for oxygen reduction reaction. <i>Applied Surface Science</i> , 2019, 473, 318-325.	3.1	29
4206	Sustainable and Atomically Dispersed Iron Electrocatalysts Derived from Nitrogen- and Phosphorus-Modified Woody Biomass for Efficient Oxygen Reduction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801623.	1.9	22
4207	Swallow-Nest-Inspired Strategy towards Ultralight Functional Multiwall Carbon-Nanotube-Based Aerogels for Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 1661-1667.	1.7	1
4208	Printed Functionalities on Paper Substrates Towards Fulfilment of the ASSURED Criteria. , 2019, , 123-170.		0
4209	Scalable microfabrication of three-dimensional porous interconnected graphene scaffolds with carbon spheres for high-performance all carbon-based micro-supercapacitors. <i>Journal of Materiomics</i> , 2019, 5, 303-312.	2.8	13
4210	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells. <i>Progress in Materials Science</i> , 2019, 102, 1-71.	16.0	129
4211	Anisotropic Water-Mediated Proton Conductivity in Large Iron(II) Metal-Organic Framework Single Crystals for Proton-Exchange Membrane Fuel Cells. <i>ACS Applied Nano Materials</i> , 2019, 2, 291-298.	2.4	39
4212	A flour-based one-stop supercapacitor with intrinsic self-healability and stretchability after self-healing and biodegradability. <i>Energy Storage Materials</i> , 2019, 21, 174-179.	9.5	48
4213	Sulfurized poly(acrylonitrile) wrapped carbon sulfur composite cathode material for high performance rechargeable lithium sulfur batteries. <i>Journal of Power Sources</i> , 2019, 412, 670-676.	4.0	38
4214	Facile solvothermal synthesis and high supercapacitor performance of NiCo ₂ O ₄ nanorods. <i>Journal of Alloys and Compounds</i> , 2019, 781, 1013-1020.	2.8	132
4215	Carbon captured from vehicle exhaust by triboelectric particular filter as materials for energy storage. <i>Nano Energy</i> , 2019, 56, 792-798.	8.2	21

#	ARTICLE	IF	CITATIONS
4216	Background, fundamental understanding and progress in electrochemical capacitors. Journal of Solid State Electrochemistry, 2019, 23, 667-692.	1.2	62
4217	Porous PAN micro/nanofiber membranes with potential application as Lithium-ion battery separators: physical, morphological and thermal properties. Journal of Polymer Research, 2019, 26, 1.	1.2	9
4218	Construction of 3D hierarchical porous NiCo ₂ O ₄ /graphene hydrogel/Ni foam electrode for high-performance supercapacitor. Electrochimica Acta, 2019, 299, 116-124.	2.6	50
4219	Hybrid energy storage devices: Advanced electrode materials and matching principles. Energy Storage Materials, 2019, 21, 22-40.	9.5	160
4220	Use of Polarization Curves and Impedance Analyses to Optimize the "Triple-Phase Boundary" in O ₂ Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2925-2934.	4.0	10
4222	Synthesis of hollow carbon spheres from polydopamine for electric double layered capacitors application. Diamond and Related Materials, 2019, 92, 32-40.	1.8	23
4223	Nanostructuring of silver nanoparticles anchored 1D zinc antimonate electrode material by ultrasonication assisted chemical reduction approach for supercapacitors. Materials Chemistry and Physics, 2019, 224, 334-348.	2.0	8
4224	Theoretical versus Practical Energy: A Plea for More Transparency in the Energy Calculation of Different Rechargeable Battery Systems. Advanced Energy Materials, 2019, 9, 1803170.	10.2	276
4225	V ₂ O ₅ and its Carbon-Based Nanocomposites for Supercapacitor Applications. ChemElectroChem, 2019, 6, 1623-1648.	1.7	100
4226	Fluorinated carbonaceous nanoparticles as active material in primary lithium battery. Journal of Fluorine Chemistry, 2019, 219, 1-9.	0.9	9
4227	Unveiling the enhanced performance of non-platinum based hybrid nanocomposites for selective electrocatalytic oxygen reduction. Materials Letters, 2019, 239, 184-191.	1.3	7
4228	H ₂ -release from alcohols, diols, and compounds with amino functionality promoted by titanium(II) sandwich complex, [Cp ₂ Ti]: a theoretical approach. Structural Chemistry, 2019, 30, 681-690.	1.0	3
4229	High tap-density graphene cathode material for lithium-ion capacitors via a mass-scalable synthesis method. Chemical Engineering Journal, 2019, 360, 1233-1240.	6.6	15
4230	Synthesis and characterization of ferrocene-functionalized reduced graphene oxide nanocomposite as a supercapacitor electrode material. Journal of Organometallic Chemistry, 2019, 880, 355-362.	0.8	46
4231	Review of the Selected Carbon-Based Materials for Symmetric Supercapacitor Application. Journal of Electronic Materials, 2019, 48, 717-744.	1.0	54
4232	A facile approach for the fabrication of loading-controlled Ag/C foam catalyst. Ionics, 2019, 25, 361-365.	1.2	0
4233	Iron-doping as an effective strategy to enhance supercapacitive properties of nickel molybdate. Electrochimica Acta, 2019, 296, 608-616.	2.6	11
4234	Fe-porphyrin carbon matrix as a bifunctional catalyst for oxygen reduction and CO ₂ reduction from theoretical perspective. Molecular Physics, 2019, 117, 1805-1812.	0.8	12

#	ARTICLE	IF	CITATIONS
4235	Biomass-Derived Multilayer-Graphene-Encapsulated Cobalt Nanoparticles as Efficient Electrocatalyst for Versatile Renewable Energy Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1137-1145.	3.2	31
4236	An updated review of energy storage systems: Classification and applications in distributed generation power systems incorporating renewable energy resources. <i>International Journal of Energy Research</i> , 2019, 43, 6171-6210.	2.2	169
4237	Novel Keplerate type polyoxometalate-surfactant-graphene hybrids as advanced electrode materials for supercapacitors. <i>Energy Storage Materials</i> , 2019, 17, 186-193.	9.5	34
4238	Functional nanocomposites from sustainable regenerated cellulose aerogels: A review. <i>Chemical Engineering Journal</i> , 2019, 359, 459-475.	6.6	177
4239	The Absence and Importance of Operando Techniques for Metal-Free Catalysts. <i>Advanced Materials</i> , 2019, 31, e1805609.	11.1	25
4240	Hollow SnO ₂ nanospheres with single-shelled structure and the application for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 779, 728-734.	2.8	39
4241	A review on porous polymer composite materials for multifunctional electronic applications. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1253-1294.	0.6	19
4242	Probing the Electrochemical Properties of Flower Like Mesoporous MoS ₂ in Different Aqueous Electrolytes. <i>Journal of Electronic Materials</i> , 2019, 48, 904-915.	1.0	11
4243	Supercapacitor Energy Storage Device Using Biowastes: A Sustainable Approach to Green Energy. <i>Sustainability</i> , 2019, 11, 414.	1.6	163
4244	Facile Synthesis of Porous Carbon Via Self-Activation of Potassium Acetate for High-Performance Supercapacitor Electrodes with Excellent Cyclic Stability. <i>Energy Technology</i> , 2019, 7, 1801090.	1.8	13
4245	Superior catalytic performance and CO tolerance of Ru@Pt/C-TiO ₂ electrocatalyst toward methanol oxidation reaction. <i>Applied Surface Science</i> , 2019, 473, 943-950.	3.1	47
4246	Fabricating a high-energy-density supercapacitor with asymmetric aqueous redox additive electrolytes and free-standing activated-carbon-felt electrodes. <i>Chemical Engineering Journal</i> , 2019, 363, 183-191.	6.6	48
4247	From biomass-derived wastes (bagasse, wheat straw and shavings) to activated carbon with three-dimensional connected architecture and porous structure for Li-ion batteries. <i>Chemical Physics</i> , 2019, 521, 108-114.	0.9	30
4248	Ni(II)-Dimeric Complex-Derived Nitrogen-Doped Graphitized Carbon-Encapsulated Nickel Nanoparticles: Efficient Trifunctional Electrocatalyst for Oxygen Reduction Reaction, Oxygen Evolution Reaction, and Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2187-2199.	3.2	52
4249	Fabrication of bimodal micro-mesoporous amorphous carbon-graphitic carbon-reduced graphene oxide composite microspheres prepared by pilot-scale spray drying and their application in supercapacitors. <i>Carbon</i> , 2019, 144, 591-600.	5.4	24
4250	Bifunctional phosphorization synthesis of mesoporous networked Ni-Co-P/phosphorus doped carbon for ultra-stable asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2019, 299, 346-356.	2.6	56
4251	First-Principles Study of the Structural Stability and Dynamic Properties of Li ₂ MSiO ₄ (M = Mn, Co, Ni) Polymorphs. <i>Energies</i> , 2019, 12, 224.	1.6	7
4252	Mesoporous Ce ₂ Zr ₂ O ₇ /PbS Nanocomposite with an Excellent Supercapacitor Electrode Performance and Cyclic Stability. <i>ChemistrySelect</i> , 2019, 4, 655-661.	0.7	17

#	ARTICLE	IF	CITATIONS
4254	Vertically Grown Few-Layer MoS ₂ Nanosheets on Hierarchical Carbon Nanocages for Pseudocapacitive Lithium Storage with Ultrahigh-Rate Capability and Long-Term Recyclability. Chemistry - A European Journal, 2019, 25, 3843-3848.	1.7	11
4255	Functional Electrocatalysts Derived from Prussian Blue and its Analogues for Metal-Air Batteries: Progress and Prospects. Batteries and Supercaps, 2019, 2, 290-310.	2.4	36
4256	Cobalt Sulfide/Reduced Graphene Oxide Nanocomposite with Enhanced Performance for Supercapacitors. Journal of Electronic Materials, 2019, 48, 1531-1539.	1.0	31
4257	Anti-poisoned oxygen reduction by the interface modulated Pd@NiO core@shell. Nano Energy, 2019, 58, 234-243.	8.2	38
4258	Ultrastable and High-Performance Zn/VO ₂ Battery Based on a Reversible Single-Phase Reaction. Chemistry of Materials, 2019, 31, 699-706.	3.2	227
4259	Carbon/Sulfur Composites Stabilized with Nano-TiNi for High-Performance Li-S Battery Cathodes. ACS Applied Energy Materials, 2019, 2, 1537-1543.	2.5	9
4260	Nanostructured Cementite/Ferrous Sulfide Encapsulated Carbon with Heteroatoms for Oxygen Reduction in Alkaline Environment. ACS Sustainable Chemistry and Engineering, 2019, 7, 3185-3194.	3.2	16
4261	Two new control strategies: For hydrogen fuel saving and extend the life cycle in the hydrogen fuel cell vehicles. International Journal of Hydrogen Energy, 2019, 44, 18967-18980.	3.8	64
4262	Fluoro-functionalized graphene oxide/polyaniline composite electrode material for supercapacitors. Polymers and Polymer Composites, 2019, 27, 76-81.	1.0	6
4263	Green synthesis of NiFe LDH/Ni foam at room temperature for highly efficient electrocatalytic oxygen evolution reaction. Science China Materials, 2019, 62, 681-689.	3.5	70
4264	Preparation of oxygen-enriched hierarchically porous carbon by KMnO ₄ one-pot oxidation and activation: Mechanism and capacitive energy storage. Electrochimica Acta, 2019, 294, 398-405.	2.6	77
4265	Construction of nanoporous gold/g-C ₃ N ₄ heterostructure for electrochemical supercapacitor. Electrochimica Acta, 2019, 294, 260-267.	2.6	39
4266	Progress in Rechargeable Aqueous Zinc and Aluminum-Ion Battery Electrodes: Challenges and Outlook. Advanced Sustainable Systems, 2019, 3, 1800111.	2.7	147
4267	Low-cost nitrogen-doped activated carbon prepared by polyethylenimine (PEI) with a convenient method for supercapacitor application. Electrochimica Acta, 2019, 294, 183-191.	2.6	78
4268	Active Sites and Mechanism of Oxygen Reduction Reaction Electrocatalysis on Nitrogen-Doped Carbon Materials. Advanced Materials, 2019, 31, e1804297.	11.1	459
4269	Recent Advances in Metal-Organic Framework Derivatives as Oxygen Catalysts for Zinc-Air Batteries. Batteries and Supercaps, 2019, 2, 272-289.	2.4	121
4270	Novel Propulsion Systems for Micro Aerial Vehicles. Journal of Propulsion and Power, 2019, 35, 243-267.	1.3	3
4271	Anodic oxidization of Al-Y amorphous alloy ribbons and their capacitive properties. Journal of Alloys and Compounds, 2019, 776, 757-762.	2.8	11

#	ARTICLE	IF	CITATIONS
4272	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 373-380.	10.8	39
4273	Unique hierarchical flower-like PtNi alloy nanocrystals with enhanced oxygen reduction properties. <i>Electrochimica Acta</i> , 2019, 294, 406-412.	2.6	14
4274	Ionic Liquids as Environmentally Benign Electrolytes for High-Performance Supercapacitors. <i>Global Challenges</i> , 2019, 3, 1800023.	1.8	50
4275	Application of RGO/CNT nanocomposite as cathode material in lithium-air battery. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 165-173.	1.9	16
4276	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. <i>Nano Energy</i> , 2019, 55, 234-259.	8.2	71
4277	Surface-controlled Nb ₂ O ₅ nanoparticle networks for fast Li transport and storage. <i>Journal of Materials Science</i> , 2019, 54, 2493-2500.	1.7	17
4278	Hierarchical NiSe@Co ₂ (CO ₃)(OH) ₂ heterogeneous nanowire arrays on nickel foam as electrode with high areal capacitance for hybrid supercapacitors. <i>Electrochimica Acta</i> , 2019, 294, 325-336.	2.6	55
4279	Novel Lithium-Ion Capacitor Based on TiSb ₂ as Negative Electrode: The Role of Mass Ratio towards High Energy-Power Densities and Long Cyclability. <i>Batteries and Supercaps</i> , 2019, 2, 153-159.	2.4	12
4280	Pt nanoparticle-supported carbon nanowalls electrode with improved durability for fuel cell applications using C ₂ F ₆ /H ₂ plasma-enhanced chemical vapor deposition. <i>Applied Physics Express</i> , 2019, 12, 015001.	1.1	6
4281	Paper-based Diagnostics. , 2019, , .		6
4282	Electrochemical Investigations of Magnetic Co ₃ O ₄ Nanoparticles as an Active Electrode for Supercapacitor Applications. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 2427-2436.	0.8	58
4283	Flexible, biodegradable and recyclable solar cells: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 951-974.	1.1	48
4284	Unprotected Pt nanoclusters anchored on ordered mesoporous carbon as an efficient and stable catalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2019, 297, 539-544.	2.6	22
4285	Pristine Transition-Metal-Based Metal-Organic Frameworks for Electrocatalysis. <i>ChemElectroChem</i> , 2019, 6, 1273-1299.	1.7	78
4286	Fused Aromatic Network Structures as a Platform for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2019, 31, e1805062.	11.1	31
4287	Puffing Up Energetic Metal-Organic Frameworks to Large Carbon Networks with Hierarchical Porosity and Atomically Dispersed Metal Sites. <i>Angewandte Chemie</i> , 2019, 131, 1997-2001.	1.6	64
4288	Puffing Up Energetic Metal-Organic Frameworks to Large Carbon Networks with Hierarchical Porosity and Atomically Dispersed Metal Sites. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1975-1979.	7.2	237
4289	Synergistic Cu@CoO _x core-cage structure on carbon layers as highly active and durable electrocatalysts for methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 795-801.	10.8	42

#	ARTICLE	IF	CITATIONS
4290	Synthesis of B doped graphene/polyaniline hybrids for high-performance supercapacitor application. Journal of Materials Science: Materials in Electronics, 2019, 30, 2316-2326.	1.1	17
4291	Understanding of Anion Transport in Polymer Electrolytes for Supercapacitors. Advanced Theory and Simulations, 2019, 2, 1800140.	1.3	2
4292	Electrochemical and dielectric behavior in poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 667 Td (alcohol)/poly(3,4-ethylenedioxythiophene) applications. Polymer Bulletin, 2019, 76, 4735-4752.	1.7	12
4293	Solid-state energy storage devices based on two-dimensional nano-materials. Energy Storage Materials, 2019, 20, 269-290.	9.5	50
4294	Molybdenum Oxide Nanosheets with Tunable Plasmonic Resonance: Aqueous Exfoliation Synthesis and Charge Storage Applications. Advanced Functional Materials, 2019, 29, 1806699.	7.8	55
4295	Enhanced electrochemical properties of Mn ₃ O ₄ /graphene nanocomposite as efficient anode material for lithium ion batteries. Journal of Alloys and Compounds, 2019, 780, 588-596.	2.8	52
4296	On the technical challenges affecting the performance of direct internal reforming biogas solid oxide fuel cells. Renewable and Sustainable Energy Reviews, 2019, 101, 361-375.	8.2	121
4297	Fabricating hierarchically porous and Fe ₃ C-embedded nitrogen-rich carbon nanofibers as exceptional electrocatalysts for oxygen reduction. Carbon, 2019, 142, 115-122.	5.4	57
4298	Preparation and electrochemical performance of modified Ti ₃ C ₂ T _x /polypyrrole composites. Journal of Applied Polymer Science, 2019, 136, 47003.	1.3	12
4299	Electrochemical performance of poly(3, 4-ethylenedioxythiophene)/nanocrystalline cellulose (PEDOT/NCC) film for supercapacitor. Carbohydrate Polymers, 2019, 203, 128-138.	5.1	51
4300	Tri-doped ceria (M _{0.2} Ce _{0.8} O _{2-δ} , M= Sm _{0.1} , Ca _{0.05} , Gd _{0.05}) electrolyte for hydrogen and ethanol-based fuel cells. Journal of Alloys and Compounds, 2019, 773, 548-554.	2.8	15
4301	High-performance nitrogen-doped hierarchical porous carbon derived from cauliflower for advanced supercapacitors. Journal of Materials Science, 2019, 54, 2446-2457.	1.7	43
4302	Nitrogen-doped porous carbon via ammonothermal carbonization for supercapacitors. Journal of Sol-Gel Science and Technology, 2019, 89, 101-110.	1.1	7
4303	Influence of heat treatment temperature of carbon fiber felt substrate on polyaniline electrosynthesis and its properties. Journal of Solid State Electrochemistry, 2019, 23, 33-52.	1.2	8
4304	A facile synthesis of bis-(pththalimidoethyl)-amine functionalized graphene oxide and its dual performance as a supercapacitor electrode and fluorescence sensor. Materials Chemistry and Physics, 2019, 222, 45-54.	2.0	24
4305	Design of Hollow Nanostructures for Energy Storage, Conversion and Production. Advanced Materials, 2019, 31, e1801993.	11.1	313
4306	Effects of proton irradiation on graphene-based supercapacitors. Materials Research Express, 2019, 6, 015605.	0.8	5
4307	Facile synthesis of ZnMn ₂ O ₄ nanosheets via cathodic electrodeposition: characterization and supercapacitor behavior studies. Ionics, 2019, 25, 275-285.	1.2	16

#	ARTICLE	IF	CITATIONS
4308	Nature of extra capacity in MoS ₂ electrodes: Molybdenum atoms accommodate with lithium. <i>Energy Storage Materials</i> , 2019, 16, 37-45.	9.5	218
4309	Biomass-derived nanoporous carbons as electrocatalysts for oxygen reduction reaction. <i>Catalysis Today</i> , 2020, 357, 269-278.	2.2	18
4310	Microbial Fuel Cell (MFC): An Innovative Technology for Wastewater Treatment and Power Generation. , 2020, , 215-235.		11
4311	Performance dependence of electrochemical capacitor on surface morphology for vertically aligned graphene nanosheets. <i>Ionics</i> , 2020, 26, 981-990.	1.2	11
4312	Ion dynamics in Al-Stabilized Li ₇ La ₃ Zr ₂ O ₁₂ single crystals – Macroscopic transport and the elementary steps of ion hopping. <i>Energy Storage Materials</i> , 2020, 24, 220-228.	9.5	37
4313	In-situ growth of hierarchical Ni-Co LDH/CoMoO ₄ nanosheets arrays on Ni foam for pseudocapacitors with robust cycle stability. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152421.	2.8	26
4314	Test factors affecting the performance of zinc-air battery. <i>Journal of Energy Chemistry</i> , 2020, 44, 1-7.	7.1	41
4315	Facile synthesis of a novel Fe ₃ O ₄ -rGO-MoO ₃ ternary nano-composite for high-performance hybrid energy storage applications. <i>Ceramics International</i> , 2020, 46, 3124-3131.	2.3	21
4316	Uncovering the underlying science behind dimensionality in the potassium battery regime. <i>Energy Storage Materials</i> , 2020, 25, 416-425.	9.5	30
4317	Proton exchange membranes with cross-linked interpenetrating network of sulfonated polyvinyl alcohol and poly(2-acrylamido-2-methyl-1-propanesulfonic acid): Excellent relative selectivity. <i>Journal of Membrane Science</i> , 2020, 595, 117511.	4.1	42
4318	TM-CmHm organometallics (TM=Fe, Co, Ni, Cu, Zn and m=4, 5, 6) for highly efficient Pt-free catalytic activation of O ₂ molecule. <i>Journal of Molecular Structure</i> , 2020, 1200, 127008.	1.8	5
4319	Nickel-zinc sulfide nanocomposite thin film as an efficient cathode material for high-performance hybrid supercapacitors. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104709.	1.9	29
4320	Cobalt-Doped Tungsten Sulfides as Stable and Efficient Air Electrodes for Rechargeable Zinc-Air Batteries. <i>ChemElectroChem</i> , 2020, 7, 148-154.	1.7	17
4321	Intermetallic PtBi Nanoplates Boost Oxygen Reduction Catalysis with Superior Tolerance over Chemical Fuels. <i>Advanced Science</i> , 2020, 7, 1800178.	5.6	55
4322	Relative Efficacy of Co ^X Embedded Graphene (X=N, S, B, and P) Electrocatalysts towards Hydrogen Evolution Reaction: Is Nitrogen Really the Best Choice?. <i>ChemCatChem</i> , 2020, 12, 536-543.	1.8	32
4323	A Review of the Value-Added Chemicals and Materials From Bio-Based Lignin Feedstocks. , 2020, , 187-200.		2
4324	The Importance of Water Transport in High Conductivity and High-Power Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 054501.	1.3	132
4325	Hierarchical NiCo layered double hydroxide on reduced graphene oxide-coated commercial conductive textile for flexible high-performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2020, 445, 227342.	4.0	56

#	ARTICLE	IF	CITATIONS
4326	A Game Changer: Functional Nano/Micromaterials for Smart Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1902499.	7.8	41
4327	Hydroxide ion conducting polymer electrolytes and their applications in solid supercapacitors: A review. <i>Energy Storage Materials</i> , 2020, 24, 6-21.	9.5	108
4328	Strategies for Development of High-Performance Graphene-Based Supercapacitor. <i>Current Graphene Science</i> , 2020, 3, 2-10.	0.5	0
4329	Designing heterostructured metal sulfide core-shell nanoneedle films as battery-type electrodes for hybrid supercapacitors. <i>Energy Storage Materials</i> , 2020, 24, 541-549.	9.5	160
4330	A facile one step hydrothermal induced hexagonal shaped CuS/rGO nanocomposites for asymmetric supercapacitors. <i>Materials Today: Proceedings</i> , 2020, 26, 3507-3513.	0.9	30
4331	The influence of activated carbon as an additive in anode materials for low temperature solid oxide fuel cells. <i>Ceramics International</i> , 2020, 46, 592-597.	2.3	7
4332	A sustainable platform of lignin: From bioresources to materials and their applications in rechargeable batteries and supercapacitors. <i>Progress in Energy and Combustion Science</i> , 2020, 76, 100788.	15.8	191
4333	Pseudocapacitive properties of nickel oxide nanoparticles synthesized via ultrasonication approach. <i>Ionics</i> , 2020, 26, 953-960.	1.2	17
4334	Phosphate ion functionalized Co ₃ O ₄ nanosheets/RGO with improved electrochemical performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124232.	2.3	5
4335	Synthesis of a novel hybrid anode nanoarchitecture of Bi ₂ O ₃ /porous-RGO nanosheets for high-performance asymmetric supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113489.	1.9	20
4336	Graphenyleneâ€“1 membrane: An excellent candidate for hydrogen purification and helium separation. <i>Carbon</i> , 2020, 157, 779-787.	5.4	28
4337	Efficient oxygen reduction activity on layered palladium phosphosulphide and its application in alkaline fuel cells. <i>Journal of Power Sources</i> , 2020, 445, 227280.	4.0	15
4338	Electrochemical Characterization of Low-Temperature Direct Ethanol Fuel Cells using Direct and Alternate Current Methods. <i>Electrocatalysis</i> , 2020, 11, 121-132.	1.5	10
4339	Improved CO ₂ Uptake and Supercapacitive Energy Storage Using Heteroatomâ€“Rich Porous Carbons Derived from Conjugated Microporous Polyaminoanthraquinone Networks. <i>ChemNanoMat</i> , 2020, 6, 58-63.	1.5	8
4340	Technological change in fuel cell technologies. , 2020, , 3-41.		4
4341	Fabrication of a Hierarchical Ni(OH) ₂ @Ni ₃ S ₂ /Ni Foam Electrode from a Prussian Blue Analogueâ€“Based Composite with Enhanced Electrochemical Capacitive and Electrocatalytic Properties. <i>Chemistry - A European Journal</i> , 2020, 26, 1111-1116.	1.7	6
4342	Embedded coral reef sponge like structured Al(OH) ₃ /FeOOH composite for flexible solid-state symmetric supercapacitor. <i>Journal of Power Sources</i> , 2020, 445, 227304.	4.0	29
4343	Consumers, prosumers, and the smart grids. , 2020, , 191-238.		1

#	ARTICLE	IF	CITATIONS
4344	A review on multifunctional attributes of zinc antimonate nanostructures towards energy and environmental applications. <i>Chemical Papers</i> , 2020, 74, 55-75.	1.0	12
4345	Continuous Flow Routes toward Designer Metal Nanocatalysts. <i>Advanced Energy Materials</i> , 2020, 10, 1902051.	10.2	13
4346	Principles of solar energy storage. <i>Energy Storage</i> , 2020, 2, e96.	2.3	13
4347	Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries. <i>Advanced Materials</i> , 2020, 32, e1902779.	11.1	142
4348	Graphene oxide supported Pd-Fe nanohybrid as an efficient electrocatalyst for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18704-18715.	3.8	10
4349	Effect of addition of rice husk on the fate and speciation of heavy metals in the bottom ash during dyeing sludge incineration. <i>Journal of Cleaner Production</i> , 2020, 244, 118851.	4.6	30
4350	Sustainable recycling of waste polystyrene into hierarchical porous carbon nanosheets with potential applications in supercapacitors. <i>Nanotechnology</i> , 2020, 31, 035402.	1.3	42
4351	Bioelectrochemical systems for a circular bioeconomy. <i>Bioresource Technology</i> , 2020, 300, 122748.	4.8	72
4352	A Review of Non-Soil Biochar Applications. <i>Materials</i> , 2020, 13, 261.	1.3	79
4353	Construction of advanced 3D Co ₃ S ₄ @PPy nanowire anchored on nickel foam for high-performance electrochemical energy storage. <i>Electrochimica Acta</i> , 2020, 334, 135635.	2.6	16
4354	N-doping induced tensile-strained Pt nanoparticles ensuring an excellent durability of the oxygen reduction reaction. <i>Journal of Catalysis</i> , 2020, 382, 247-255.	3.1	61
4355	Complementary behaviour of EDL and HER activity in functionalized graphene nanoplatelets. <i>Nanoscale</i> , 2020, 12, 1790-1800.	2.8	10
4356	Nitrogen and phosphorus modification to enhance the catalytic activity of biomass-derived carbon toward the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2707-2717.	2.5	32
4357	Strategies for the deposition of LaFeO ₃ photocathodes: improving the photocurrent with a polymer template. <i>Sustainable Energy and Fuels</i> , 2020, 4, 884-894.	2.5	15
4358	A stable and high-energy hybrid supercapacitor using porous Cu ₂ O@Cu _{1.8} S nanowire arrays. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1920-1928.	5.2	29
4359	Experimental study of a metal "hydrogen reactor's behavior under the action of an external magnetostatic field during absorption and desorption. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4673-4684.	3.8	8
4360	Flexible 3D carbon cloth as a high-performing electrode for energy storage and conversion. <i>Nanoscale</i> , 2020, 12, 5261-5285.	2.8	81
4361	Charge-compensated co-doping of graphdiyne with boron and nitrogen to form metal-free electrocatalysts for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1493-1501.	1.3	32

#	ARTICLE	IF	CITATIONS
4362	Boosting supercapacitor and capacitive deionization performance of hierarchically porous carbon by polar surface and structural engineering. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2505-2517.	5.2	103
4363	Electrochemical Performance of Nanocrystalline Vanadium Pentoxide Thin Films Grown by RF Magnetron Sputtering. <i>Journal of Electronic Materials</i> , 2020, 49, 1922-1934.	1.0	8
4364	Nitrogen-doped hierarchical porous carbon derived from ZIF-8 supported on carbon aerogels with advanced performance for supercapacitor. <i>Applied Surface Science</i> , 2020, 507, 145166.	3.1	62
4365	Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2773-2782.	4.0	17
4366	PANOA/MnO ₂ /MWCNT nanocomposite: Synthesis, characterization, and electrochemical performance as efficient electrode materials for supercapacitors. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2020, 57, 1-8.	1.2	5
4367	Biopolymer Electrolyte Membranes (BioPEMs) for Sustainable Primary Redox Batteries. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900110.	2.7	5
4368	Highly conductive Mn ₃ O ₄ /MnS heterostructures building multi-shelled hollow microspheres for high-performance supercapacitors. <i>Chemical Engineering Journal</i> , 2020, 392, 123890.	6.6	54
4369	Porous Î ² -Mo ₂ C nanoparticle clusters supported on walnut shell powders derived carbon matrix for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2020, 563, 104-111.	5.0	28
4370	Synthesis, structural and electrochemical properties of Mn-MoO ₄ /graphene nanocomposite electrode material with improved performance for supercapacitor application. <i>Journal of Energy Storage</i> , 2020, 27, 101069.	3.9	36
4371	Recent Progress of Metal Carbides Encapsulated in Carbon-Based Materials for Electrocatalysis of Oxygen Reduction Reaction. <i>Small Methods</i> , 2020, 4, 1900575.	4.6	59
4372	Good practice guide for papers on supercapacitors and related hybrid capacitors for the Journal of Power Sources. <i>Journal of Power Sources</i> , 2020, 450, 227636.	4.0	41
4373	Boron based layered electrode materials for metal-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 709-715.	1.3	9
4374	Pomelo peel-derived, N-doped biochar microspheres as an efficient and durable metal-free ORR catalyst in microbial fuel cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1642-1653.	2.5	59
4375	Renewable low cost green functional mesoporous electrodes from <i>Solanum lycopersicum</i> leaves for supercapacitors. <i>Journal of Energy Storage</i> , 2020, 27, 101149.	3.9	34
4376	Lithium metal anodes: Present and future. <i>Journal of Energy Chemistry</i> , 2020, 48, 145-159.	7.1	311
4377	Layered Cathode Materials for Lithium-Ion Batteries: Review of Computational Studies on LiNi _{1-x} Co _x Mn _y O ₂ and LiNi _{1-x} Co _x Al _y O ₂ . <i>Chemistry of Materials</i> , 2020, 32, 915-952.	3.2	196
4378	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. <i>Chemical Communications</i> , 2020, 56, 1883-1886.	2.2	31
4379	Graphitic Carbon Nitride Doped Copper-Manganese Alloy as High-Performance Electrode Material in Supercapacitor for Energy Storage. <i>Nanomaterials</i> , 2020, 10, 2.	1.9	59

#	ARTICLE	IF	CITATIONS
4380	Bimetallic PdZn nanoparticles for oxygen reduction reaction in alkaline medium: The effects of surface structure. <i>Journal of Catalysis</i> , 2020, 382, 181-191.	3.1	30
4381	Electrical and electronic applications of layered double-hydroxide polymer nanocomposites. , 2020, , 565-597.		2
4382	Template synthesis of structure-controlled 3D hollow nickel-cobalt phosphides microcubes for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 23-31.	5.0	50
4383	The influence of facile pre-reaction on the morphology and electrochemical performance of MnO(OH)/Co(OH) ₂ composite for supercapacitor. <i>Ionics</i> , 2020, 26, 2071-2079.	1.2	2
4384	Synthesis of hybrid ZIF-derived binary ZnS/CoS composite as high areal-capacitance supercapacitor. <i>Synthetic Metals</i> , 2020, 260, 116262.	2.1	45
4385	Optimized Electrolytic Carbon and Electrolyte Systems for Electrochemical Capacitors. <i>ChemElectroChem</i> , 2020, 7, 266-282.	1.7	11
4386	Synthesis and Characterization of Reduced Graphene Oxide for Supercapacitor Application with a Biodegradable Electrolyte. <i>Journal of Electronic Materials</i> , 2020, 49, 985-994.	1.0	19
4387	Materials and Fabrication Methods for Electrochemical Supercapacitors: Overview. <i>Electrochemical Energy Reviews</i> , 2020, 3, 155-186.	13.1	163
4388	The growth pattern of Pt _n (n = 1-6) clusters on pentagonal B ₂ C monolayer support: A computational study. <i>Applied Surface Science</i> , 2020, 507, 145076.	3.1	20
4389	Rational Design of Novel Efficient Palladium Electrode Embellished 3D Hierarchical Graphene/Polyimide Foam for Hydrogen Peroxide Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 934-944.	4.0	27
4390	K ⁺ Ion Storage Enhancement in Sb ₂ O ₃ /Reduced Graphene Oxide Using Ether-Based Electrolyte. <i>Advanced Energy Materials</i> , 2020, 10, 1903455.	10.2	113
4391	Microwave Synthesis of Zinc Ammonium Phosphate/Reduced Graphene Oxide Hybrid Composite for High Energy Density Supercapacitors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900736.	0.8	14
4392	Self-standing Substrates. <i>Engineering Materials</i> , 2020, , .	0.3	2
4393	Heavy Water Enables High-Voltage Aqueous Electrochemistry via the Deuterium Isotope Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 303-310.	2.1	14
4394	Boosting the energy storage performance of cobalt molybdate microspheres constructed from urotropin-induced ultrathin nanosheets. <i>International Journal of Energy Research</i> , 2020, 44, 2196-2207.	2.2	6
4395	Electrodeposition of zinc and reduced graphene oxide on porous nickel electrodes for high performance supercapacitors. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 138, 109307.	1.9	11
4396	High energy density and low self-discharge of a quasi-solid-state supercapacitor with carbon nanotubes incorporated redox-active ionic liquid-based gel polymer electrolyte. <i>Electrochimica Acta</i> , 2020, 331, 135425.	2.6	119
4397	Aqueous metal-air batteries: Fundamentals and applications. <i>Energy Storage Materials</i> , 2020, 27, 478-505.	9.5	221

#	ARTICLE	IF	CITATIONS
4398	Reviewing the fundamentals of supercapacitors and the difficulties involving the analysis of the electrochemical findings obtained for porous electrode materials. <i>Energy Storage Materials</i> , 2020, 27, 555-590.	9.5	179
4399	Oxygen vacancies enhance the lithium ion intercalation pseudocapacitive properties of orthorhombic niobium pentoxide. <i>Journal of Colloid and Interface Science</i> , 2020, 562, 193-203.	5.0	46
4400	Polymer Chemistry for Improving Lithium Metal Anodes. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 1900379.	1.1	11
4401	Ceramics for electrochemical storage. , 2020, , 549-709.		21
4402	Power Ready for Driving Catalysis and Sensing: Nanomaterials Designed for Renewable Energy Storage. , 2020, , 307-346.		3
4403	MnO ₂ encapsulated electrospun TiO ₂ nanofibers as electrodes for asymmetric supercapacitors. <i>Nanotechnology</i> , 2020, 31, 125401.	1.3	31
4404	Hierarchically porous carbon derived from the activation of waste chestnut shells by potassium bicarbonate (KHCO ₃) for high-performance supercapacitor electrode. <i>International Journal of Energy Research</i> , 2020, 44, 988-999.	2.2	42
4405	Intercalation pseudo-capacitance behavior of few-layered molybdenum sulfide in various electrolytes. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 117-126.	5.0	14
4406	Detrimental effect of Ce ⁴⁺ ion on the Pt/C catalyst in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2020, 448, 227447.	4.0	16
4407	Monolithic carbon nanosheets with rich pores for high-capacitance supercapacitor. <i>Journal of Porous Materials</i> , 2020, 27, 487-494.	1.3	6
4408	Enlarging Surface/Bulk Ratios of NiO Nanoparticles toward High Utilization and Rate Capability for Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900344.	1.2	7
4409	Electrochemically anchored manganese hexacyanoferrate nanocubes on three-dimensional porous graphene scaffold: Towards a potential application in high-performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2020, 449, 227510.	4.0	33
4410	Maximized Energy Density of RuO ₂ /RuO ₂ Supercapacitors through Potential Dependence of Specific Capacitance. <i>ChemElectroChem</i> , 2020, 7, 928-936.	1.7	16
4411	K ₂ Ti ₆ O ₁₃ Nanoparticle-Loaded Porous rGO Crumples for Supercapacitors. <i>Nano-Micro Letters</i> , 2020, 12, 10.	14.4	6
4412	Energy storage devices in electrified railway systems: A review. <i>Transportation Safety and Environment</i> , 2020, 2, 183-201.	1.1	52
4413	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. <i>ACS Omega</i> , 2020, 5, 26287-26294.	1.6	22
4414	Mayenite Electrifies and Their Doped Forms for Oxygen Reduction Reaction in Solid Oxide Fuel Cells. <i>Energies</i> , 2020, 13, 4978.	1.6	0
4415	Building sandwich-like carbon coated Si@CNTs composites as high-performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2020, 364, 137278.	2.6	33

#	ARTICLE	IF	CITATIONS
4416	Facile Synthesis of MOF-derived Mn ₃ O ₄ @N-doped Carbon with Efficient Oxygen Reduction. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1426-1431.	0.6	8
4417	Ionic conductance and viscous drag in water-in-salt electrolytes for lithium and sodium ion batteries and supercapacitors. <i>Materials Today Communications</i> , 2020, 25, 101588.	0.9	18
4418	Graphene Quantum Dots as Flourishing Nanomaterials for Bio-Imaging, Therapy Development, and Micro-Supercapacitors. <i>Micromachines</i> , 2020, 11, 866.	1.4	52
4419	Metal framework as a novel approach for the fabrication of electric double layer capacitor device with high energy density using plasticized Poly(vinyl alcohol): Ammonium thiocyanate based polymer electrolyte. <i>Arabian Journal of Chemistry</i> , 2020, 13, 7247-7263.	2.3	35
4420	Three-Dimensional Cathodes for Electrochemical Reduction of CO ₂ : From Macro- to Nano-Engineering. <i>Nanomaterials</i> , 2020, 10, 1884.	1.9	23
4421	Current Research of Graphene-Based Nanocomposites and Their Application for Supercapacitors. <i>Nanomaterials</i> , 2020, 10, 2046.	1.9	38
4422	Silicon anode design for Li ion batteries: Synergic effects of Ag nanoparticles and ionic liquid electrolytes. <i>Chemical Engineering Journal Advances</i> , 2020, 4, 100037.	2.4	4
4423	Durable Supercapattery Film with Dual-Branched Dense Hexagonal Fe(II)-Based Coordination Nanosheets for Flexible Power Sources. <i>ACS Applied Energy Materials</i> , 2020, 3, 10653-10659.	2.5	8
4424	Achieving High Conductivity at Low Ion Exchange Capacity for Anion Exchange Membranes with Electrospun Polyelectrolyte Nanofibers. <i>ACS Applied Energy Materials</i> , 2020, 3, 10660-10668.	2.5	15
4425	On the Capacities of Freestanding Vanadium Pentoxide@Carbon Nanotube@Nanocellulose Paper Electrodes for Charge Storage Applications. <i>Energy Technology</i> , 2020, 8, 2000731.	1.8	4
4426	Interconnected NiCo ₂ S ₄ - coated NiO nanosheet arrays as electrode materials for high-performance supercapacitors. <i>Journal of Energy Storage</i> , 2020, 32, 101886.	3.9	21
4427	Hierarchical Nylon-6/reduced graphene oxide/polyaniline nanocomposites with enhanced dielectric properties for energy storage applications. <i>Journal of Energy Storage</i> , 2020, 32, 101821.	3.9	30
4428	Recent Progress in Engineering the Atomic and Electronic Structure of Electrocatalysts via Cation Exchange Reactions. <i>Advanced Materials</i> , 2020, 32, e2001866.	11.1	101
4429	Fabrication and characterization of supercapacitor electrodes using chemically synthesized CuO nanostructure and activated charcoal (AC) based nanocomposite. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	12
4430	Conductivity/Electrochemical Study of Polyvinyl pyrrolidone-Poly(vinyl alcohol)/I ₃ ⁺ Thin Film Electrolyte for Integrated Dye-Sensitized Solar Cells and Supercapacitors. <i>Journal of Electronic Materials</i> , 2020, 49, 6325-6335.	1.0	10
4431	Flexible quasi-solid-state aqueous Zn-based batteries: rational electrode designs for high-performance and mechanical flexibility. <i>Materials Today Energy</i> , 2020, 18, 100523.	2.5	42
4432	Synergistic effects of nanocarbon spheres sheathed on a binderless CoMoO ₄ electrode for high-performance asymmetric supercapacitor. <i>Dalton Transactions</i> , 2020, 49, 14506-14519.	1.6	22
4433	Structural and thermodynamic properties of the electrical double layer in slit nanopores: A Monte Carlo study. <i>Journal of Chemical Physics</i> , 2020, 153, 134703.	1.2	4

#	ARTICLE	IF	CITATIONS
4434	Phosphorous incorporation in Pd ₂ Sn alloys for electrocatalytic ethanol oxidation. <i>Nano Energy</i> , 2020, 77, 105116.	8.2	48
4435	Facile synthesis of SnO ₂ nanoparticle intercalated unzipped multi-walled carbon nanotubes via an ultrasound-assisted route for symmetric supercapacitor devices. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5120-5131.	2.5	4
4436	Effect of temperature on irreversible and reversible heat generation rates in ionic liquid-based electric double layer capacitors. <i>Electrochimica Acta</i> , 2020, 338, 135802.	2.6	16
4437	Laser-Assisted Fabrication of Nanostructured Substrate Supported Electrodes for Highly Active Supercapacitors. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	6
4438	One-pot synthesis of three-dimensional Pt nanodendrites with enhanced methanol oxidation reaction and oxygen reduction reaction activities. <i>Nanotechnology</i> , 2020, 31, 435403.	1.3	6
4439	Impact of polypyrrole incorporation on nickel oxide@multi walled carbon nanotube composite for application in supercapacitors. <i>Polymer Testing</i> , 2020, 89, 106727.	2.3	29
4440	Hierarchical Nanocomposites by Oligomer-Initiated Controlled Polymerization of Aniline on Graphene Oxide Sheets for Energy Storage. <i>ACS Applied Nano Materials</i> , 2020, 3, 1693-1705.	2.4	20
4441	A pH-Neutral, Aqueous Redox Flow Battery with a 3600-Cycle Lifetime: Micellization-Enabled High Stability and Crossover Suppression. <i>ChemSusChem</i> , 2020, 13, 4069-4077.	3.6	25
4442	On the challenge of large energy storage by electrochemical devices. <i>Electrochimica Acta</i> , 2020, 354, 136771.	2.6	62
4443	Simple pyrolysis of alginate-based hydrogel cross-linked by bivalent ions into highly porous carbons for energy storage. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 265-274.	3.6	25
4444	Monolithic Nanoporous Zn Anode for Rechargeable Alkaline Batteries. <i>ACS Nano</i> , 2020, 14, 2404-2411.	7.3	64
4445	An intuitive review of supercapacitors with recent progress and novel device applications. <i>Journal of Energy Storage</i> , 2020, 31, 101652.	3.9	160
4446	High stable zinc tungstate electrode for electrochemical supercapacitor. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
4447	Inkjet Printed Double-Layered Cathodes for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124503.	1.3	3
4448	Electrocatalytic properties of two-dimensional transition metal dichalcogenides and their hetrostructures in energy applications. , 2020, , 215-241.		6
4449	Ferrites for electrocatalytic water splitting applications. , 2020, , 123-145.		2
4450	Recovery and Regeneration of Spent Lithium-Ion Batteries From New Energy Vehicles. <i>Frontiers in Chemistry</i> , 2020, 8, 807.	1.8	21
4451	Effect of different aqueous electrolytes on electrochemical performance of activated carbon anchored by multiwalled carbon nanotubes for supercapacitor applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	3

#	ARTICLE	IF	CITATIONS
4452	Heterostructured Titanium Oxynitride-Manganese Cobalt Oxide Nanorods as High-Performance Electrode Materials for Supercapacitor Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54524-54536.	4.0	20
4453	Design of a redox-active "water-in-salt" hydrogel polymer electrolyte for superior-performance quasi-solid-state supercapacitors. <i>New Journal of Chemistry</i> , 2020, 44, 17070-17078.	1.4	13
4454	Waffle-Like Carbons Combined with Enriched Mesopores and Highly Heteroatom-Doped Derived from Sandwiched MOF/LDH/MOF for High-Rate Supercapacitor. <i>Nanomaterials</i> , 2020, 10, 2388.	1.9	17
4455	Facilitating Oxygen Redox on Manganese Oxide Nanosheets by Tuning Active Species and Oxygen Defects for Zinc-Air Batteries. <i>ChemElectroChem</i> , 2020, 7, 4949-4955.	1.7	23
4456	Cobalt Oxide Nanograins and Silver Nanoparticles Decorated Fibrous Polyaniline Nanocomposite as Battery-Type Electrode for High Performance Supercapattery. <i>Polymers</i> , 2020, 12, 2816.	2.0	22
4457	Advances in understanding Li battery mechanisms using impedance spectroscopy - Review. <i>Journal of Electrochemical Science and Engineering</i> , 2020, 10, 79-93.	1.6	11
4458	Advanced energy materials for flexible batteries in energy storage: A review. <i>SmartMat</i> , 2020, 1, .	6.4	186
4459	High-Performance Supercapacitor Electrode Obtained by Directly Bonding 2D Materials: Hierarchal MoS ₂ on Reduced Graphene Oxide. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	35
4460	Halide Perovskite Materials for Energy Storage Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2003653.	7.8	63
4461	Preparation of N, S co-decorated carbon supported iron species for oxygen reduction and zinc air batteries. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156367.	2.8	17
4462	Multi-dimensional materials with layered structures for supercapacitors: Advanced synthesis, supercapacitor performance and functional mechanism. <i>Nano Energy</i> , 2020, 78, 105193.	8.2	58
4463	Electropolymerization Triggered <i>in Situ</i> Surface Modification of Electrode Interphases: Alleviating First-Cycle Lithium Loss in Silicon Anode Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12788-12798.	3.2	13
4464	A Mn(ⁱⁱ)-MOF with inherent missing metal-ion defects based on an imidazole-tetrazole tripodal ligand and its application in supercapacitors. <i>Dalton Transactions</i> , 2020, 49, 12150-12155.	1.6	11
4465	Application of Biomass-Derived Nitrogen-Doped Carbon Aerogels in Electrocatalysis and Supercapacitors. <i>ChemElectroChem</i> , 2020, 7, 3695-3712.	1.7	52
4466	Understanding and Breaking the Scaling Relations in the Oxygen Reduction Reaction on PdxCu _{4-x} Subnanoclusters Supported by Defective Two-Dimensional Boron Nitride Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19530-19537.	1.5	7
4467	Vanadium-Based Materials: Next Generation Electrodes Powering the Battery Revolution?. <i>Accounts of Chemical Research</i> , 2020, 53, 1660-1671.	7.6	89
4468	Modular theory for DC-biased electrochemical impedance response of supercapacitor. <i>Journal of Power Sources</i> , 2020, 473, 228467.	4.0	33
4469	Green route synthesis of nanoporous copper oxide for efficient supercapacitor and capacitive deionization performances. <i>International Journal of Energy Research</i> , 2020, 44, 10682-10694.	2.2	24

#	ARTICLE	IF	CITATIONS
4470	Binder-free heterostructure (g-C ₃ N ₄ /PPy) based thin film on semi-flexible nickel foam via hybrid spray technique for energy storage application. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 298-307.	1.8	11
4471	Fabrication of a poly(o-toluidine-co-aniline)/SiO ₂ nanocomposite for an electrochemical supercapacitor application. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 1019-1035.	1.5	9
4472	Lithium Recovery from Brines Including Seawater, Salt Lake Brine, Underground Water and Geothermal Water. , 0, , .		12
4473	An In Situ Cross-Linked Nonaqueous Polymer Electrolyte for Zinc-Metal Polymer Batteries and Hybrid Supercapacitors. <i>Small</i> , 2020, 16, e2002528.	5.2	24
4474	An Electrochemical Neutralization Cell for Spontaneous Water Desalination. <i>Joule</i> , 2020, 4, 1730-1742.	11.7	35
4475	High Electrochemical Performance of Bi ₂ WO ₆ /Carbon Nano-Onion Composites as Electrode Materials for Pseudocapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 577.	1.8	11
4476	Fuel Cell Thermodynamics. , 0, , .		5
4477	Iron oxide encapsulated in nitrogen-rich carbon enabling high-performance lithium-ion capacitor. <i>Science China Materials</i> , 2020, 63, 2289-2302.	3.5	13
4478	Continuous durability study of a high temperature polymer electrolyte membrane fuel cell stack. <i>Applied Energy</i> , 2020, 277, 115588.	5.1	14
4479	Uniformizing the electric field distribution and ion migration during zinc plating/stripping <i>via</i> a binary polymer blend artificial interphase. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17725-17731.	5.2	71
4480	N,N-bis(sulfopropyl)aminyl-4-phenyl polysulfone and O ²⁻ -bis(sulfopropyl)resorcinol-5-yl-4-phenyl polysulfone composite membrane for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 23490-23503.	3.8	13
4481	Cationic Covalent-Organic Framework as Efficient Redox Motor for High-Performance Lithium-Sulfur Batteries. <i>Small</i> , 2020, 16, e2002932.	5.2	64
4482	Traditional salt-in-water electrolyte <i>vs.</i> water-in-salt electrolyte with binary metal oxide for symmetric supercapacitors: capacitive <i>vs.</i> faradaic. <i>Dalton Transactions</i> , 2020, 49, 11743-11755.	1.6	35
4483	Poly(norbornene) anion conductive membranes: homopolymer, block copolymer and random copolymer properties and performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17568-17578.	5.2	105
4484	Development of Proton Exchange Membranes Based on Chitosan Blended with Poly (2-Acrylamido-2-Methylpropane Sulfonic Acid) for Fuel Cells applications. <i>Materials Today Communications</i> , 2020, 25, 101536.	0.9	15
4485	<i>In Situ</i> Synthesis of Trifluoroacetic Acid-Doped Polyaniline/Reduced Graphene Oxide Composites for High-Performance All-Solid-State Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 8774-8785.	2.5	29
4486	The Role of Space Charge at Metal/Oxide Interfaces in Proton Ceramic Electrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20827-20833.	1.5	4
4487	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. <i>Chemical Reviews</i> , 2020, 120, 12217-12314.	23.0	563

#	ARTICLE	IF	CITATIONS
4488	Understanding activity origin for the oxygen reduction reaction on bi-atom catalysts by DFT studies and machine-learning. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24563-24571.	5.2	71
4489	In-situ pyrolysis of MnO ₂ /PVDF composites on carbon cloths and their enhanced electrochemical performances. <i>Solid State Sciences</i> , 2020, 109, 106403.	1.5	0
4490	2D/3D heterostructure of h-BN/reduced graphite oxide as a remarkable electrode Material for supercapacitor. <i>Journal of Power Sources</i> , 2020, 479, 229092.	4.0	34
4491	Ru and Ni—Privileged Metal Combination for Environmental Nanocatalysis. <i>Catalysts</i> , 2020, 10, 992.	1.6	10
4492	Self-Assembly/Sacrificial Synthesis of Highly Capacitive Hierarchical Porous Carbon from Longan Pulp Biomass. <i>ChemElectroChem</i> , 2020, 7, 4606-4613.	1.7	11
4493	Diffusivity and Structure of Room Temperature Ionic Liquid in Various Organic Solvents. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9931-9937.	1.2	18
4494	Triple perovskite oxide as an advanced pseudocapacitive material: multifarious element approach with an ordered structure. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24013-24023.	5.2	17
4496	Covalent Organic Frameworks as Negative Electrodes for High-Performance Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 2001673.	10.2	107
4497	Core-shell crystalline ZIF-67@amorphous ZIF for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020, 55, 16360-16373.	1.7	39
4498	Carbon Encapsulated Ternary Mn—Ni—Co Oxide Nanoparticles as Electrode Materials for Energy Storage Applications. <i>Electroanalysis</i> , 2020, 32, 2926-2935.	1.5	9
4499	Direct Observation of Carbon Dioxide Electroreduction on Gold: Site Blocking by the Stern Layer Controls CO ₂ Adsorption Kinetics. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8307-8313.	2.1	21
4500	Phosphorus-Induced Activation of Ruthenium for Boosting Hydrogen Oxidation and Evolution Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 11751-11757.	5.5	124
4501	Between Liquid and All Solid: A Prospect on Electrolyte Future in Lithium-Ion Batteries for Electric Vehicles. <i>Energy Technology</i> , 2020, 8, 2000580.	1.8	48
4502	Electrodeposited Films of Graphene, Carbon Nanotubes, and Their Mixtures for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 10003-10013.	2.4	17
4503	Li-rich cathodes for rechargeable Li-based batteries: reaction mechanisms and advanced characterization techniques. <i>Energy and Environmental Science</i> , 2020, 13, 4450-4497.	15.6	219
4504	Aqueous Supercapacitor with Ultrahigh Voltage Window Beyond 2.0 Volt. <i>Small Structures</i> , 2020, 1, 2000020.	6.9	83
4505	NiCo ₂ O ₄ -Based Nanosheets with Uniform 4 nm Mesopores for Excellent Zn—Air Battery Performance. <i>Advanced Materials</i> , 2020, 32, e2001651.	11.1	120
4506	Chemical Vapour Deposition of Graphene—Synthesis, Characterisation, and Applications: A Review. <i>Molecules</i> , 2020, 25, 3856.	1.7	155

#	ARTICLE	IF	CITATIONS
4507	Electrode Materials for Supercapacitors: A Review of Recent Advances. <i>Catalysts</i> , 2020, 10, 969.	1.6	269
4508	A new approach to separate hydrogen from carbon dioxide using graphdiyne-like membrane. <i>Scientific Reports</i> , 2020, 10, 13549.	1.6	12
4509	Electrocatalysis of sulfur and polysulfides in Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19704-19728.	5.2	83
4510	Preparation of MOF Derived Zn-Co-C Composite as Anode for Lithium-ion Batteries. <i>International Journal of Electrochemical Science</i> , 2020, 15, 9543-9553.	0.5	5
4511	Enzymatic synthesis and electrochemical characterization of sodium 1,2-naphthoquinone-4-sulfonate-doped PEDOT/MWCNT composite. <i>RSC Advances</i> , 2020, 10, 33010-33017.	1.7	10
4512	Oxygen Reduction Assisted by the Concert of Redox Activity and Proton Relay in a Cu(II) Complex. <i>Inorganic Chemistry</i> , 2020, 59, 14012-14022.	1.9	19
4513	Synergetic FeCo nanorods embedded in nitrogen-doped carbon nanotubes with abundant metal-NCNT heterointerfaces as efficient air electrocatalysts for rechargeable zinc-air batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5188-5194.	2.5	7
4514	Design of a Janus-Faced Electrode for Highly Stretchable Zinc-Silver Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2004137.	7.8	18
4515	Nanocomposites of NiO/CuO Based MOF with rGO: An Efficient and Robust Electrocatalyst for Methanol Oxidation Reaction in DMFC. <i>Nanomaterials</i> , 2020, 10, 1601.	1.9	63
4516	Hydrothermal synthesis of layered CoS@WS ₂ nanocomposite as a potential electrode for high-performance supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16290-16298.	1.1	2
4517	Bacterial-Polymer-Based Electrolytes: Recent Progress and Applications. <i>ACS Applied Energy Materials</i> , 2020, 3, 11500-11515.	2.5	12
4518	Ultrafine Tin Dioxide Nanoparticles Grown on Nitrogen-doped Graphene with Rich Pyrrolic Nitrogen for Excellent Supercapacitor Performance. <i>International Journal of Electrochemical Science</i> , 2020, 15, 8892-8900.	0.5	3
4519	A Density Functional Theory Study on the Mechanism of Complete Ethanol Oxidation on Ir(100): Surface Diffusion-Controlled C-C Bond Cleavage. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26953-26964.	1.5	22
4520	Low-cost Immobilized Enzyme Glucose Sensor based on Laminar Flow. <i>Journal of Physics: Conference Series</i> , 2020, 1681, 012008.	0.3	0
4521	Investigating Hydrogen Separation in a Novel Rotating Carbon Nanotube-Carbon Nanocone Setup Using Molecular Dynamics Simulations. <i>Coatings</i> , 2020, 10, 1207.	1.2	0
4522	Reliability of Hybrid Supercapacitor for Persistent Memory Application. <i>Procedia Manufacturing</i> , 2020, 51, 1027-1032.	1.9	1
4523	Fiber Electronics. , 2020, , .		4
4524	Catalytic Four-Electron Reduction of Dioxygen by Ferrocene Derivatives with a Nonheme Iron(III) TAML Complex. <i>Inorganic Chemistry</i> , 2020, 59, 18010-18017.	1.9	12

#	ARTICLE	IF	CITATIONS
4525	Metal-Carbon Composite Catalysts by One-Step Conversion of MOF Crystals in a Sealed-Tube Reactor. ACS Applied Energy Materials, 2020, 3, 11529-11533.	2.5	3
4526	Facile Hydrothermal Synthesis of Fe ₂ O ₃ /rGO Composites for Low-Cost Supercapacitors. Nano, 2020, 15, 2050162.	0.5	1
4527	Zeolitic imidazolate framework (ZIF)-derived porous carbon materials for supercapacitors: an overview. RSC Advances, 2020, 10, 43733-43750.	1.7	69
4528	Nickel Cobaltite Functionalized Silver Doped Carbon Xerogels as Efficient Electrode Materials for High Performance Symmetric Supercapacitor. Materials, 2020, 13, 4906.	1.3	20
4529	Cobalt ferrite nanoparticles for supercapacitor application. AIP Conference Proceedings, 2020, , .	0.3	6
4530	Polymer-Derived Electrospun Co ₃ O ₄ @C Porous Nanofiber Network for Flexible, High-Performance, and Stable Supercapacitors. ACS Applied Energy Materials, 2020, 3, 11002-11014.	2.5	24
4531	Unraveling the Dissolution-Mediated Reaction Mechanism of MnO ₂ Cathodes for Aqueous Zn-Ion Batteries. Small, 2020, 16, e2005406.	5.2	58
4532	Facile synthesis of strontium oxide/polyaniline/graphene composite for the high-performance supercapattery devices. Journal of Electroanalytical Chemistry, 2020, 879, 114812.	1.9	32
4533	Investigations and fabrication of Ni(OH) ₂ encapsulated carbon nanotubes nanocomposites based asymmetrical hybrid electrochemical supercapacitor. Journal of Energy Storage, 2020, 32, 101934.	3.9	23
4534	A dual-electrolyte aluminum/air microfluidic cell with enhanced voltage, power density and electrolyte utilization via a novel composite membrane. Journal of Power Sources, 2020, 478, 228960.	4.0	10
4535	Rolled Supercapacitor Device Model Using Carbon-Sheet as Electrodes in KCl Electrolyte System. Key Engineering Materials, 2020, 860, 53-58.	0.4	2
4536	Recent Advances in the Development of Single-Atom Catalysts for Oxygen Electrocatalysis and Zinc-Air Batteries. Advanced Energy Materials, 2020, 10, 2003018.	10.2	181
4537	Structural characterization and electrical/electrochemical studies of Nd _{1-x} BaxCo _{1-y} (Fe, Ti) _y O _{3-δ} (0 \leq x) Tj ETQqO O O rGBT /Overlock 121682.	1.4	5
4538	Porous carbon materials derived from areca palm leaves for high performance symmetrical solid-state supercapacitors. Journal of Materials Science, 2020, 55, 10751-10764.	1.7	40
4539	Accessing the Two-Electron Charge Storage Capacity of MnO ₂ in Mild Aqueous Electrolytes. Advanced Energy Materials, 2020, 10, 2000332.	10.2	69
4540	Highly crumpled graphene-like material as compression-resistant electrode material for high energy-power density supercapacitor. Chemical Engineering Journal, 2020, 397, 125525.	6.6	23
4541	Polyaniline/fullerene derivative nanocomposite for highly efficient supercapacitor electrode. International Journal of Hydrogen Energy, 2020, 45, 16254-16265.	3.8	59
4542	Oxygen evolution electrocatalysis using mixed metal oxides under acidic conditions: Challenges and opportunities. Journal of Catalysis, 2020, 388, 130-140.	3.1	59

#	ARTICLE	IF	CITATIONS
4543	A tightly packed Co ₃ O ₄ /C&S composite for high-performance electrochemical supercapacitors from a cobalt(III) cluster-based coordination precursor. <i>Journal of Solid State Chemistry</i> , 2020, 288, 121435.	1.4	20
4544	Reduced Graphene Oxide/Poly(Pyrrole-co-Thiophene) Hybrid Composite Materials: Synthesis, Characterization, and Supercapacitive Properties. <i>Polymers</i> , 2020, 12, 1110.	2.0	14
4545	Transparent Flexible Heteroepitaxy of NiO Coated AZO Nanorods Arrays on Muscovites for Enhanced Energy Storage Application. <i>Small</i> , 2020, 16, 2000020.	5.2	10
4546	MOFs-derived core-shell Co ₃ Fe ₇ @Fe ₂ N nanoparticles supported on rGO as high-performance bifunctional electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Materials Today Energy</i> , 2020, 17, 100433.	2.5	29
4547	Mapping and Metastability of Heterogeneity in LiMn ₂ O ₄ Battery Electrodes with High Energy Density. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020526.	1.3	5
4548	3D-interconnected framework binary composite based on polypyrrole/textile polyacrylonitrile-derived activated carbon fiber felt as supercapacitor electrode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10225-10233.	1.1	8
4549	Controlling Fuel Crossover in Open Electrochemical Cells by Tuning the Water Nanochannel for Power Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8613-8623.	3.2	6
4550	An Overview and Future Perspectives of Rechargeable Zinc Batteries. <i>Small</i> , 2020, 16, e2000730.	5.2	216
4551	Synthesis of Nitrogen and Phosphorus co-doped Carbon with Tunable Hierarchical Porous Structure from Rice Husk for High Performance Supercapacitors. <i>International Journal of Electrochemical Science</i> , 2020, 15, 2399-2413.	0.5	7
4552	Rechargeable Aqueous Zinc-Ion Batteries with Mild Electrolytes: A Comprehensive Review. <i>Batteries and Supercaps</i> , 2020, 3, 966-1005.	2.4	68
4553	Intercalation in Two-Dimensional Transition Metal Carbides and Nitrides (MXenes) toward Electrochemical Capacitor and Beyond. <i>Energy and Environmental Materials</i> , 2020, 3, 306-322.	7.3	66
4554	Resolving Heterogeneous Dynamics of Excess Protons in Aqueous Solution with Rate Theory. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5665-5675.	1.2	17
4555	Preparation of Highly Porous Graphitic Activated Carbon as Electrode Materials for Supercapacitors by Hydrothermal Pretreatment-Assisted Chemical Activation. <i>ACS Omega</i> , 2020, 5, 11058-11067.	1.6	15
4556	Evaluation of the effect of site substitution of Pr doping in the lithium garnet system Li ₅ La ₃ Nb ₂ O ₁₂ . <i>Dalton Transactions</i> , 2020, 49, 10349-10359.	1.6	10
4557	Structural engineering of bimetal-organic framework via a direct etching method and conversion to phosphide for electrochemical capacitors. <i>Applied Materials Today</i> , 2020, 20, 100698.	2.3	11
4558	Bimetallic Cobalt-Nickel Selenide@PolypyrroleCore-Shell Nanotubes on NickelFoam as High-Performance Electrode Material for Supercapacitors. <i>International Journal of Electrochemical Science</i> , 2020, 15, 2923-2934.	0.5	8
4559	Bismuth-Ferrite-Based Electrochemical Supercapacitors. <i>SpringerBriefs in Materials</i> , 2020, , .	0.1	7
4560	Layered double hydroxides materials for photo(electro-) catalytic applications. <i>Chemical Engineering Journal</i> , 2020, 397, 125407.	6.6	71

#	ARTICLE	IF	CITATIONS
4561	Improved redox-active ionic liquid-based ionogel electrolyte by introducing carbon nanotubes for application in all-solid-state supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17131-17139.	3.8	88
4562	Cobalt hexacyanoferrate/MnO ₂ nanocomposite for asymmetrical supercapacitors with enhanced electrochemical performance and its charge storage mechanism. <i>Journal of Power Sources</i> , 2020, 465, 228266.	4.0	49
4563	Fast charging negative electrodes based on anatase titanium dioxide beads for highly stable Li-ion capacitors. <i>Materials Today Energy</i> , 2020, 16, 100424.	2.5	11
4564	Multifaceted applications of cellulosic porous materials in environment, energy, and health. <i>Progress in Polymer Science</i> , 2020, 106, 101253.	11.8	63
4565	Ion transport, dielectric, and electrochemical properties of sodium ion-conducting polymer nanocomposite: application in EDLC. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 10873-10888.	1.1	31
4566	High specific energy ternary nanocomposite polyaniline:Manganese dioxide@ MWCNT electrode for asymmetric supercapacitor. <i>Journal of Energy Storage</i> , 2020, 29, 101411.	3.9	11
4567	A covalently linked dual network structure achieved by rapid grafting of poly(<i>p</i> -phenylenediamine)-phosphomolybdic acid on reduced graphene oxide aerogel for improving the performance of supercapacitors. <i>Chemical Communications</i> , 2020, 56, 7305-7308.	2.2	12
4568	Optimized Double Manganese Oxide Deposition for Enhanced Electrochemical Capacitor Performance. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080503.	1.3	3
4569	Aqueous Al-ion cells and supercapacitors – comparison. <i>Energy Reports</i> , 2020, 6, 166-173.	2.5	29
4570	Fe-MnO ₂ core-shell heterostructure for high-performance aqueous asymmetrical supercapacitor. <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114266.	1.9	21
4571	NiMn Layered Double Hydroxide Nanosheets In-situ Anchored on Ti ₃ C ₂ MXene via Chemical Bonds for Superior Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 5949-5964.	2.5	131
4572	Exploring the performance of pristine and defective silicene and silicene-like XSi ₃ (X= Al, B, C, N, P) sheets as supercapacitor electrodes: A density functional theory calculation of quantum capacitance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114290.	1.3	15
4573	The design of zinc-substituted cobalt (pyro)phosphates as efficient bifunctional electrocatalysts for zinc-air batteries. <i>Chemical Communications</i> , 2020, 56, 8400-8403.	2.2	6
4575	Tuning MnCo ₂ O ₄ nanowire arrays on carbon cloth as an efficient cathode catalyst for Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2020, 353, 136572.	2.6	22
4576	Ultrathin porous NiMnO ₃ nanosheets on carbon cloth for use as supercapacitor electrode. <i>AIP Advances</i> , 2020, 10, 065002.	0.6	3
4577	High power density Al-air batteries with commercial three-dimensional aluminum foam anode. <i>Ionics</i> , 2020, 26, 5045-5054.	1.2	10
4578	Two-dimensional electrocatalysts for alcohol oxidation: A critical review. <i>Chemical Engineering Journal</i> , 2020, 400, 125744.	6.6	67
4579	Flexible Type Symmetric Supercapacitor Electrode Fabrication Using Phosphoric Acid-Activated Carbon Nanomaterials Derived from Cow Dung for Renewable Energy Applications. <i>ACS Omega</i> , 2020, 5, 15028-15038.	1.6	28

#	ARTICLE	IF	CITATIONS
4580	6 Carbon from waste source for Li-ion battery. , 2020, , 153-180.		0
4581	Nitrogen-Doped nano-carbon onion rings for energy storage in Lithium-ion capacitors. Journal of Energy Storage, 2020, 31, 101609.	3.9	10
4582	Battery package design optimization for small electric aircraft. Chinese Journal of Aeronautics, 2020, 33, 2864-2876.	2.8	18
4583	Power Conversion With a Magnetically-Geared Permanent Magnet Generator for Low-Speed Wave Energy Converter. IEEE Transactions on Industry Applications, 2020, 56, 5308-5318.	3.3	7
4584	A review on the superb contribution of carbon and graphene quantum dots to electrochemical capacitorsâ€™ performance: Synthesis and application. FlatChem, 2020, 22, 100171.	2.8	44
4585	Hierarchical CoO@Ni(OH) ₂ coreâ€™shell heterostructure arrays for advanced asymmetric supercapacitors. Nanotechnology, 2020, 31, 405705.	1.3	17
4586	Charge/discharge cycling of Li _{1+x} (Ni _{0.6} Co _{0.2} Mn _{0.2}) _{1-x} O ₂ primary particles performed in a liquid microcell for transmission electron microscopy studies. JPhys Energy, 2020, 2, 034007.	2.3	12
4587	Remarkably improved oxygen evolution reaction activity of cobalt oxides by an Fe ion solution immersion process. Inorganic Chemistry Frontiers, 2020, 7, 3327-3339.	3.0	29
4588	Morphologyâ€™Controlled Molybdenum Disulfide/Candle Soot Carbon Composite for Highâ€™Performance Supercapacitor. ChemistrySelect, 2020, 5, 6809-6817.	0.7	13
4589	TCNQ Confined in Porous Organic Structure as Cathode for Aqueous Zinc Battery. Journal of the Electrochemical Society, 2020, 167, 100552.	1.3	26
4590	Graphene-based composite materials for flexible supercapacitors. , 2020, , 345-372.		4
4591	Graphene Foam (GF)/Manganese Oxide (MnO ₂) Nanocomposites for High Performance Supercapacitors. Journal of Energy Storage, 2020, 30, 101575.	3.9	17
4592	A Low-Interference, High-Resolution Multianalyte Electrochemical Biosensor. Analytical Methods, 2020, 12, 3873-3882.	1.3	4
4593	Preparation of Stainless Steel Mesh-Supported MnO ₂ /Polypyrrole Nanocomposites as Binder-Free Electrode for Supercapacitor. Nano, 2020, 15, 2050031.	0.5	6
4594	Multifunctional biogenically synthesized porous multi-walled carbon nanotubes dispersed polymer electrolyte-based supercapacitor. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	11
4595	Copper Porphyrin as a Stable Cathode for Highâ€™Performance Rechargeable Potassium Organic Batteries. ChemSusChem, 2020, 13, 2286-2294.	3.6	54
4596	Progress in Computational and Machineâ€™Learning Methods for Heterogeneous Smallâ€™Molecule Activation. Advanced Materials, 2020, 32, e1907865.	11.1	46
4597	Interlayer Engineering of Layered Cathode Materials for Advanced Zn Storage. Chem, 2020, 6, 817-819.	5.8	7

#	ARTICLE	IF	CITATIONS
4598	Flower-like carbon doped MoS ₂ /Activated carbon composite electrode for superior performance of supercapacitors and hydrogen evolution reactions. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154745.	2.8	25
4599	Nitrogen and Phosphorus Co-doped Porous Carbon for High-Performance Supercapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 105.	1.8	23
4600	The role of oxygen vacancies of ABO ₃ perovskite oxides in the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2020, 13, 1408-1428.	15.6	477
4601	The emerging science of electrosymbionics. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 033001.	1.5	6
4602	Designing of ultra-long-life hybrid supercapacitor based on advanced battery-type electrochemical performance from porous nanostructured nickel-doped bimetallic spinel electrodes. <i>Electrochimica Acta</i> , 2020, 341, 136016.	2.6	12
4603	Bifunctional nitrogen-doped hybrid catalyst based on onion-like carbon and graphitic carbon encapsulated transition metal alloy nanostructure for rechargeable zinc-air battery. <i>Journal of Power Sources</i> , 2020, 455, 227975.	4.0	46
4604	Ni and Ce oxide-based hollow fibers as battery-like electrodes. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154633.	2.8	8
4605	Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15822-15828.	5.2	58
4606	Catalyzing zinc-ion intercalation in hydrated vanadates for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7713-7723.	5.2	84
4607	Mediated Fuel Cells: Soluble Redox Mediators and Their Applications to Electrochemical Reduction of O ₂ and Oxidation of H ₂ , Alcohols, Biomass, and Complex Fuels. <i>Chemical Reviews</i> , 2020, 120, 3749-3786.	23.0	113
4608	A graphene/MnO ₂ composite supercapacitor material accomplished tactically using liquid and solid liquid interface reaction techniques. <i>New Journal of Chemistry</i> , 2020, 44, 6853-6861.	1.4	11
4609	Two-dimensional porous nickel oxalate thin sheets constructed by ultrathin nanosheets as electrode materials for high-performance aqueous supercapacitors. <i>CrystEngComm</i> , 2020, 22, 2953-2963.	1.3	15
4610	A Long-Cycling Aqueous Zinc-Ion Pouch Cell: NASICON-Type Material and Surface Modification. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1430-1435.	1.7	21
4611	Fabrication of rGO/g-C ₃ N ₄ @SnS ₂ and its rate-performance enhancement. <i>Chemical Physics Letters</i> , 2020, 746, 137296.	1.2	8
4612	Controlling reaction kinetics of layered zinc vanadate having brucite-like ZnO layers supported by pyrovanadate pillars for use in supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154479.	2.8	25
4613	Enhanced Electrode Deposition for On-Chip Integrated Micro-Supercapacitors by Controlled Surface Roughening. <i>ACS Omega</i> , 2020, 5, 5219-5228.	1.6	5
4614	Revealing the oxygen reduction reaction activity origin of single atoms supported on g-C ₃ N ₄ monolayers: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6555-6563.	5.2	140
4615	Synthesis of High Surface Area δ -K ₂ MnO ₂ Nanoneedles Using Extract of Broccoli as Bioactive Reducing Agent and Application in Lithium Battery. <i>Materials</i> , 2020, 13, 1269.	1.3	5

#	ARTICLE	IF	CITATIONS
4616	The Effect of Carbon Content on Methanol Oxidation and Photo-Oxidation at Pt-TiO ₂ -C Electrodes. <i>Catalysts</i> , 2020, 10, 248.	1.6	13
4617	Boosting Specific Energy and Power of Carbon-Ionic Liquid Supercapacitors by Engineering Carbon Pore Structures. <i>Frontiers in Chemistry</i> , 2020, 8, 6.	1.8	5
4618	Construction and Application of Interfacial Inorganic Nanostructures. <i>Chinese Journal of Chemistry</i> , 2020, 38, 772-786.	2.6	13
4619	A simple, economical one-pot microwave assisted synthesis of nitrogen and sulfur co-doped graphene for high energy supercapacitors. <i>Electrochimica Acta</i> , 2020, 341, 135999.	2.6	42
4620	Preparation of C-MO _x nanocomposite for efficient adsorption of heavy metal ions via mechanochemical reaction of CaC ₂ and transitional metal oxides. <i>Journal of Hazardous Materials</i> , 2020, 393, 122487.	6.5	33
4621	Mass fabrication of oxygen and nitrogen co-doped 3D hierarchical porous carbon nanosheets by an explosion-assisted strategy for supercapacitor and dye adsorption application. <i>Applied Surface Science</i> , 2020, 529, 147079.	3.1	26
4622	Structural Effect on Proton Conduction in Two Highly Stable Disubstituted Ferrocenyl Carboxylate Frameworks. <i>Inorganic Chemistry</i> , 2020, 59, 10243-10252.	1.9	21
4623	Perspective on High-Energy Carbon-Based Supercapacitors. <i>Energy and Environmental Materials</i> , 2020, 3, 286-305.	7.3	124
4624	MnO ₂ nanospheres electrode composed of low crystalline ultra-thin nanosheets for high performance and high rate supercapacitors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 259, 114610.	1.7	16
4625	N-self-doped porous carbon derived from animal-heart as an electrocatalyst for efficient reduction of oxygen. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 832-841.	5.0	9
4626	Sustainable development of vanadium pentoxide carbon composites derived from <i>Hibiscus sabdariffa</i> family for application in supercapacitors. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4814-4830.	2.5	21
4627	Design and synthesis of NiCo ₂ O ₄ /NiCoO ₂ /graphene hybrid nanoarrays with enhanced capacitive performance. <i>Ceramics International</i> , 2020, 46, 20191-20200.	2.3	14
4628	Silver incorporated partially reduced NiCo-layered double hydroxide frameworks for asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2020, 31, 101578.	3.9	12
4629	Synthesis of nickel sulfide-graphene oxide composite microflower structures to enhance supercapacitor performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12536-12545.	1.1	12
4630	Ionic liquid supported nickel-based metal-organic framework for electrochemical sensing of hydrogen peroxide and electrocatalytic oxidation of methanol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125199.	2.3	27
4631	On the Reduction of O ₂ on Cathode Surfaces of Co-Corrin and Co-Porphyrin: A Computational and Experimental Study on Their Relative Efficiencies in H ₂ O/H ₂ O ₂ Formation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4652-4659.	1.5	4
4632	Carbon-Based Electrocatalysts Derived From Biomass for Oxygen Reduction Reaction: A Minireview. <i>Frontiers in Chemistry</i> , 2020, 8, 116.	1.8	26
4633	Characterization of carbonate derived carbons through electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2020, 338, 135847.	2.6	6

#	ARTICLE	IF	CITATIONS
4634	Enhanced capacitive performances and excellent stability of cadmium-sulfide-concealed nickel sulfide (Ni ₃ S ₂ /CdS) for electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154211.	2.8	25
4635	Na- and K-Doped Li ₂ SiO ₃ as an Alternative Solid Electrolyte for Solid-State Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4982-4988.	1.5	12
4636	Novel Charging-Optimized Cathode for a Fast and High-Capacity Zinc-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10420-10427.	4.0	43
4637	A Facile Grinding Method for the Synthesis of 3D Ag Metal-Organic Frameworks (MOFs) Containing Ag ₆ Mo ₇ O ₂₄ for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2020, 26, 4613-4619.	1.7	34
4638	Advances in Porous Perovskites: Synthesis and Electrocatalytic Performance in Fuel Cells and Metal-Air Batteries. <i>Energy and Environmental Materials</i> , 2020, 3, 121-145.	7.3	119
4639	Fe ₃ O ₄ nanoparticles encapsulated in single-atom Fe-N-C towards efficient oxygen reduction reaction: Effect of the micro and macro pores. <i>Carbon</i> , 2020, 162, 245-255.	5.4	88
4640	Multi-Scale Investigations of Ni _{0.25} V ₂ O ₅ ·nH ₂ O Cathode Materials in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2000058.	10.2	173
4641	High Electrochemical Performance of 2.5%V Aqueous Symmetric Supercapacitor Based on Nitrogen-Doped Reduced Graphene Oxide. <i>Energy Technology</i> , 2020, 8, 1901339.	1.8	19
4642	High energy density supercapacitors based on porous mSiO ₂ @Ni ₃ S ₂ /NiS ₂ promoted with boron nitride and carbon. <i>Chemical Engineering Journal</i> , 2020, 390, 124561.	6.6	38
4643	Manganese dioxide thin films deposited by chemical bath and successive ionic layer adsorption and reaction deposition methods and their supercapacitive performance. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107853.	1.8	17
4644	L-Tryptophan: Antioxidant as a Film-Forming Additive for a High-Voltage Cathode. <i>Langmuir</i> , 2020, 36, 2823-2828.	1.6	2
4645	A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole Composites for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13386-13399.	4.0	35
4646	Functioning Mechanism of the Secondary Aqueous Zn- ²⁺ -MnO ₂ Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12834-12846.	4.0	77
4647	Low temperature and highly efficient oxygen/sulfur dual-modification of nanoporous carbon under hydrothermal conditions for supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 761-770.	1.2	11
4648	Micro-cantilever sensors for monitoring carbon monoxide concentration in fuel cells. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 045005.	1.5	12
4649	Selectivity-Determining Steps in O ₂ Reduction Catalyzed by Iron(tetramesitylporphyrin). <i>Journal of the American Chemical Society</i> , 2020, 142, 4108-4113.	6.6	41
4650	Solid-state symmetric supercapacitor based on Y doped Sr(OH) ₂ using SILAR method. <i>Energy</i> , 2020, 197, 117163.	4.5	16
4651	Molecular design principles for polymeric binders in silicon anodes. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 709-724.	1.7	29

#	ARTICLE	IF	CITATIONS
4652	Temperature distribution of supercapacitors prepared by various technologies. <i>Materials Today: Proceedings</i> , 2020, 33, 2440-2444.	0.9	0
4653	Hybrid electrochemical capacitors in aqueous electrolytes: Challenges and prospects. <i>Current Opinion in Electrochemistry</i> , 2020, 21, 167-174.	2.5	15
4654	Fabrication of manganese oxide decorated copper oxide (MnO ₂ /CuO) nanocomposite electrodes for energy storage supercapacitor devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 119, 114033.	1.3	65
4655	A Hierarchical Interconnected Nanosheet Structure of Porous MnO ₂ on Graphite Paper as Cathode with a Broad Potential Window for NaNO ₃ Aqueous Electrolyte Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 2614-2622.	2.5	32
4656	High performance asymmetric supercapacitor based on vertical nanowire arrays of a novel Ni@Co-Fe LDH core@shell as negative and Ni(OH) ₂ as positive electrode. <i>Nanotechnology</i> , 2020, 31, 245401.	1.3	36
4657	Carbon-Based Polymer Nanocomposite for High-Performance Energy Storage Applications. <i>Polymers</i> , 2020, 12, 505.	2.0	144
4658	Influence of Li-salts on Cycle Durability of Sn-Ni Alloy Anode for Lithium-ion Capacitor. <i>Electrochemistry</i> , 2020, 88, 74-78.	0.6	2
4659	Binder-free heterostructured MWCNTs/Al ₂ S ₃ decorated on NiCo foam as highly reversible cathode material for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020, 340, 135955.	2.6	37
4660	One-pot facile synthesis of nanorice-like structured CuS@WS ₂ as an advanced electroactive material for high-performance supercapacitors. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	9
4661	In-situ formation of N doped hollow graphene Nanospheres/CNTs architecture with encapsulated Fe ₃ C@C nanoparticles as efficient bifunctional oxygen electrocatalysts. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154238.	2.8	16
4662	3D Printing for Electrochemical Energy Applications. <i>Chemical Reviews</i> , 2020, 120, 2783-2810.	23.0	255
4663	Relationship between microstructure and electrochemical properties of 2lignin-derived carbon nanofibers prepared by thermal treatment. <i>Synthetic Metals</i> , 2020, 260, 116287.	2.1	9
4664	African international trade in the global value chain of lithium batteries. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020, 25, 1031-1052.	1.0	5
4665	Revisiting LiClO ₄ as an electrolyte for Li-ion battery: Effect of aggregation behavior on ion-pairing dynamics and conductance. <i>Journal of Molecular Liquids</i> , 2020, 302, 112536.	2.3	10
4666	Tailoring the metallic composition of Pd, Pt, and Au containing novel trimetallic catalysts to achieve enhanced formic acid electrooxidation activity. <i>Ionics</i> , 2020, 26, 3109-3121.	1.2	24
4667	Towards an optimized hybrid electrochemical capacitor in iodide based aqueous redox-electrolyte: Shift of equilibrium potential by electrodes mass-balancing. <i>Electrochimica Acta</i> , 2020, 337, 135785.	2.6	17
4668	Research Frontiers in Energy-Related Materials and Applications for 2020-2030. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900145.	2.7	30
4669	Deciphering the Role of Quaternary N in O ₂ Reduction over Controlled N-Doped Carbon Catalysts. <i>Chemistry of Materials</i> , 2020, 32, 1384-1392.	3.2	41

#	ARTICLE	IF	CITATIONS
4670	Lithium Metal Protection by a Cross-Linked Polymer Ionic Liquid and Its Application in Lithium Battery. ACS Applied Energy Materials, 2020, 3, 2020-2027.	2.5	37
4671	Unravelling the role of temperature in a redox supercapacitor composed of multifarious nanoporous carbon@hydroquinone. RSC Advances, 2020, 10, 1799-1810.	1.7	13
4672	The effect of a vitamin B ₁₂ based catalyst on hydrogen peroxide oxidation reactions and the performance evaluation of a membraneless hydrogen peroxide fuel cell under physiological pH conditions. Journal of Materials Chemistry C, 2020, 8, 2749-2755.	2.7	17
4673	Biomass-derived porous graphitic carbon materials for energy and environmental applications. Journal of Materials Chemistry A, 2020, 8, 5773-5811.	5.2	234
4674	Recent Advance in Co ₃ O ₄ and Co ₃ O ₄ -Containing Electrode Materials for High-Performance Supercapacitors. Molecules, 2020, 25, 269.	1.7	41
4675	Phase-Inversion Polymer Composite Separators Based on Hexagonal Boron Nitride Nanosheets for High-Temperature Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 8107-8114.	4.0	52
4676	Rational Design of Spinel Cobalt Vanadate Oxide Co ₂ VO ₄ for Superior Electrocatalysis. Advanced Materials, 2020, 32, e1907168.	11.1	134
4677	Fast Zn ²⁺ kinetics of vanadium oxide nanotubes in high-performance rechargeable zinc-ion batteries. Journal of Power Sources, 2020, 451, 227767.	4.0	20
4678	Membrane-Free Zn/MnO ₂ Flow Battery for Large-Scale Energy Storage. Advanced Energy Materials, 2020, 10, 1902085.	10.2	111
4679	Supported dual-atom catalysts: Preparation, characterization, and potential applications. Chinese Journal of Catalysis, 2020, 41, 783-798.	6.9	174
4680	New insight into the electrodeposition of NiCo layered double hydroxide and its capacitive evaluation. Electrochimica Acta, 2020, 336, 135734.	2.6	33
4681	Cassava- and bamboo-derived carbons with higher degree of graphitization for energy storage. Nanomaterials and Energy, 2020, 9, 54-65.	0.1	11
4682	Free-standing interconnected carbon nanofiber electrodes: new structural designs for supercapacitor application. Nanotechnology, 2020, 31, 185403.	1.3	13
4683	C ₆₀ (OH) ₁₂ and Its Nanocomposite for High-Performance Lithium Storage. ACS Nano, 2020, 14, 1600-1608.	7.3	11
4684	Solvothermal synthesis dependent structural, morphological and electrochemical behaviour of mesoporous nanorods of Sm ₂ NiMnO ₆ . Ceramics International, 2020, 46, 11041-11048.	2.3	20
4685	Cobalt sulfide nanoparticles: Synthesis, water splitting and supercapacitance studies. Materials Science in Semiconductor Processing, 2020, 109, 104925.	1.9	29
4686	Facile Synthesis of Hierarchical MgCo ₂ O ₄ @MnO ₂ Core-Shell Nanosheet Arrays on Nickel Foam as an Advanced Electrode for Asymmetric Supercapacitors. Journal of the Electrochemical Society, 2020, 167, 020510.	1.3	13
4687	Electrochemical capacitors operating in aqueous electrolyte with volumetric characteristics improved by sustainable templating of electrode materials. Electrochimica Acta, 2020, 338, 135788.	2.6	20

#	ARTICLE	IF	CITATIONS
4688	Study of double perovskite La ₂ B(II)MnO ₆ (B: Ni, Co, Cu) as electrode materials for energy storage. Journal of Solid State Electrochemistry, 2020, 24, 699-710.	1.2	27
4689	Integrated Electrode of PPy/Ni(OH) ₂ Composite on Nickel Foam with Enhanced Electrochemical Performance for Hybrid supercapacitors. Journal of the Electrochemical Society, 2020, 167, 020560.	1.3	7
4690	Carbon nanotubes decorated NiSe ₂ nanosheets for high-performance supercapacitors. Journal of Power Sources, 2020, 452, 227793.	4.0	136
4691	Three-dimensional nitrogen rich bubbled porous carbon sponge for supercapacitor & pressure sensing applications. International Journal of Energy Research, 2020, 44, 7242-7253.	2.2	16
4692	Metal-free heteroatom-doped carbon-based catalysts for ORR: A critical assessment about the role of heteroatoms. Carbon, 2020, 165, 434-454.	5.4	231
4693	Investigation of electrical and electric energy storage properties of La-doped Na _{0.3} Sr _{0.4} Bi _{0.3} TiO ₃ based Pb-free ceramics. Ceramics International, 2020, 46, 19375-19384.	2.3	36
4694	Ultrathin Film Pt _x Pd _(1-x) Alloy Catalysts for Formic Acid Oxidation Synthesized by Surface Limited Redox Replacement of Underpotentially Deposited H Monolayer. Electrochem, 2020, 1, 4-19.	1.7	2
4695	Ultrafine MnO ₂ /graphene based hybrid nanoframeworks as high-performance flexible electrode for energy storage applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 6910-6918.	1.1	29
4696	Enhanced electrochemical performance of copper vanadate nanorods as an electrode material for pseudocapacitor application. Journal of Materials Science: Materials in Electronics, 2020, 31, 7012-7021.	1.1	20
4697	Experimental investigation of charge transfer coefficient and exchange current density in standard fuel cell model for polymer electrolyte membrane fuel cells. Korean Journal of Chemical Engineering, 2020, 37, 577-582.	1.2	5
4698	Rational design and construction of nickel molybdate nanohybrid composite for high-performance supercapattery. Applied Surface Science, 2020, 515, 146023.	3.1	15
4699	Electrospun polyacrylonitrile/cyclodextrin-derived hierarchical porous carbon nanofiber/MnO ₂ composites for supercapacitor applications. Carbon, 2020, 164, 296-304.	5.4	54
4700	An electrochemical evaluation of nitrogen-doped carbons as anodes for lithium ion batteries. Carbon, 2020, 164, 261-271.	5.4	53
4701	Studies on kinetics and diffusion characteristics of lithium ions in TiNb ₂ O ₇ . Electrochimica Acta, 2020, 345, 136208.	2.6	61
4702	Prussian blue and its analogues as advanced supercapacitor electrodes. Journal of Energy Chemistry, 2020, 50, 206-229.	7.1	127
4703	Electrochemical investigation on high-rate properties of graphene nanoplatelet-carbon nanotube hybrids for Li-ion capacitors. Journal of Electroanalytical Chemistry, 2020, 863, 114060.	1.9	12
4704	3D porous nickel nanosheet arrays as an advanced electrode material for high energy hybrid supercapacitors. Journal of Electroanalytical Chemistry, 2020, 864, 114118.	1.9	5
4705	Scientific Challenges for the Implementation of Zn-Ion Batteries. Joule, 2020, 4, 771-799.	11.7	1,164

#	ARTICLE	IF	CITATIONS
4706	Porous carbon derived from herbal plant waste for supercapacitor electrodes with ultrahigh specific capacitance and excellent energy density. <i>Waste Management</i> , 2020, 106, 250-260.	3.7	32
4707	Targeted synthesis and reaction mechanism discussion of Mo ₂ C based insertion-type electrodes for advanced pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7819-7827.	5.2	14
4708	Enhancing the Electrocatalytic Activity of Pd/M (M = Ni, Mn) Nanoparticles for the Oxygen Reduction Reaction in Alkaline Media through Electrochemical Dealloying. <i>ACS Catalysis</i> , 2020, 10, 5891-5898.	5.5	74
4709	Tailoring the Oxygen Vacancy to Achieve Fast Intrinsic Proton Transport in a Perovskite Cathode for Protonic Ceramic Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 4914-4922.	2.5	108
4710	Ising models of charge storage in multifile metallic nanopores. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 275201.	0.7	5
4711	Microwave-assisted KOH activation from lignin into hierarchically porous carbon with super high specific surface area by utilizing the dual roles of inorganic salts: Microwave absorber and porogen. <i>Microporous and Mesoporous Materials</i> , 2020, 300, 110178.	2.2	56
4712	Remarkably enhanced proton conduction of {NBu ₂ (CH ₂ COOH) ₂ }[MnCr(ox) ₃] by multiplication of carboxyl carrier in the cation. <i>Chemical Communications</i> , 2020, 56, 6138-6140.	2.2	8
4713	Ultrahigh capacity 2D anode materials for lithium/sodium-ion batteries: an entirely planar B ₇ P ₂ monolayer with suitable pore size and distribution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10301-10309.	5.2	44
4714	Power optimized battery swap and recharge strategies for electric aircraft operations. <i>Transportation Research Part C: Emerging Technologies</i> , 2020, 115, 102605.	3.9	24
4715	Transition metal alloy integrated tubular carbon hybrid nanostructure for bifunctional oxygen electrocatalysis. <i>Electrochimica Acta</i> , 2020, 348, 136274.	2.6	27
4716	Two-Dimensional Metal Hexahydroxybenzene Frameworks as Promising Electrocatalysts for an Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7472-7479.	3.2	57
4717	Sucrose-templated interconnected meso/macro-porous 2D symmetric graphitic carbon networks as supports for I [±] -Fe ₂ O ₃ towards improved supercapacitive behavior. <i>RSC Advances</i> , 2020, 10, 15751-15762.	1.7	4
4718	Solvothermal-assisted assembly of MoS ₂ nanocages on graphene sheets to enhance the electrochemical performance of lithium-ion battery. <i>Nano Research</i> , 2020, 13, 1029-1034.	5.8	28
4719	Nanostructured graphene materials utilization in fuel cells and batteries: A review. <i>Journal of Energy Storage</i> , 2020, 29, 101386.	3.9	50
4720	Electrochemical analysis of CuO-AC based nanocomposite for supercapacitor electrode application. <i>Materials Today: Proceedings</i> , 2020, 28, 366-374.	0.9	9
4721	3D <i>Operando</i> Imaging and Quantification of Inhomogeneous Electrochemical Reactions in Composite Battery Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3629-3636.	2.1	35
4722	Investigation into the electrochemical behaviour of silver in alkaline solution and the influence of Au-decoration using <i>operando</i> Raman spectroscopy. <i>RSC Advances</i> , 2020, 10, 8453-8459.	1.7	9
4723	Interphases, Interfaces, and Surfaces of Active Materials in Rechargeable Batteries and Perovskite Solar Cells. <i>Advanced Materials</i> , 2021, 33, e1905245.	11.1	30

#	ARTICLE	IF	CITATIONS
4724	Recent advances in energy storage mechanism of aqueous zinc-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 54, 712-726.	7.1	211
4725	Biotech nanocellulose: A review on progress in product design and today's state of technical and medical applications. <i>Carbohydrate Polymers</i> , 2021, 254, 117313.	5.1	33
4726	A Living Biotic-Abiotic Composite that can Switch Function Between Current Generation and Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2007351.	7.8	20
4727	Recent progress in copper sulfide based nanomaterials for high energy supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114825.	1.9	59
4728	Cattail fiber-derived hierarchical porous carbon materials for high-performance supercapacitors. <i>Diamond and Related Materials</i> , 2021, 111, 108162.	1.8	15
4729	Investigation of the microstructure on the nanoporous carbon based capacitive performance. <i>Microporous and Mesoporous Materials</i> , 2021, 310, 110629.	2.2	6
4730	Solid-State Li-Metal Batteries: Challenges and Horizons of Oxide and Sulfide Solid Electrolytes and Their Interfaces. <i>Advanced Energy Materials</i> , 2021, 11, .	10.2	312
4731	Electrospun carbon nanofibers as electrode materials for supercapacitor applications. , 2021, , 641-688.		5
4732	Mechanochemical processing of BaZr _{1-x} Y _{0.15} O _{3-δ} (y=0.15, 0.20) protonic ceramic electrolytes: Phase purity, microstructure, electrical properties and comparison with other preparation routes. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13606-13621.	3.8	12
4733	Nickel sulfide-based energy storage materials for high-performance electrochemical capacitors. <i>Rare Metals</i> , 2021, 40, 353-373.	3.6	81
4734	Fe ₂ O ₃ /N doped rGO anode hybridized with NiCo LDH/Co(OH) ₂ cathode for battery-like supercapacitor. <i>Chemical Engineering Journal</i> , 2021, 403, 126325.	6.6	115
4735	Engineering the electronic structure of perovskite oxide surface with ionic liquid for enhanced oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119593.	10.8	35
4736	A monolayer of Pd on ZrC(0 0 1) speeds up O ₂ dissociation: An ab initio study. <i>Applied Surface Science</i> , 2021, 537, 148050.	3.1	0
4737	High performance of facile microwave-assisted BiPO ₄ nanostructures as electrode material for energy storage applications. <i>Materials Science in Semiconductor Processing</i> , 2021, 122, 105472.	1.9	12
4738	Nickel and cobalt sulfide-based nanostructured materials for electrochemical energy storage devices. <i>Chemical Engineering Journal</i> , 2021, 409, 127237.	6.6	84
4739	BiVO ₄ nanocoral superstructures and their excellent electrical/optical dual-functions. <i>Journal of Alloys and Compounds</i> , 2021, 852, 157035.	2.8	19
4740	Battery materials for low-cost electric transportation. <i>Materials Today</i> , 2021, 42, 57-72.	8.3	98
4741	Construction of phosphatized cobalt nickel-LDH nanosheet arrays as binder-free electrode for high-performance battery-like supercapacitor device. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157652.	2.8	29

#	ARTICLE	IF	CITATIONS
4742	Prospect of Ni-related metal oxides for high-performance supercapacitor electrodes. <i>Journal of Materials Science</i> , 2021, 56, 1897-1918.	1.7	11
4743	Application and exploration of nanofibrous strategy in electrode design. <i>Journal of Materials Science and Technology</i> , 2021, 74, 189-202.	5.6	40
4744	Compressible, anisotropic lamellar cellulose-based carbon aerogels enhanced by carbon dots for superior energy storage and water deionization. <i>Carbohydrate Polymers</i> , 2021, 252, 117209.	5.1	30
4745	Simultaneous Preparation and Functionalization of Ultrathin Few-layer Black Phosphorus Nanosheets and Their Electrocatalytic OER and HER Performance. <i>ChemCatChem</i> , 2021, 13, 592-602.	1.8	14
4746	Recent Advances of Asymmetric Supercapacitors. <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	167
4747	Improved electric energy storage properties of BT-SBT lead-free ceramics incorporating with A-site substitution with Na & Bi ions and liquid sintering generated by Na _{0.5} Bi _{0.5} TiO ₃ . <i>Journal of Alloys and Compounds</i> , 2021, 856, 156708.	2.8	22
4748	Template-assisted synthesized hollow sphere-like NiCoP/carbon nanoparticles composites for high-performance asymmetric supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2021, 880, 114862.	1.9	15
4749	Electrochemical performance of quaternary (1-x)ZnMn ₂ O ₄ /(x)MgFe ₂ O ₄ solid solution as supercapacitor electrode. <i>Ceramics International</i> , 2021, 47, 7475-7486.	2.3	26
4750	Recent Advancement on Anion Exchange Membranes for Fuel Cell and Water Electrolysis. <i>ChemElectroChem</i> , 2021, 8, 36-45.	1.7	68
4751	Noble metal nanowire arrays as an ethanol oxidation electrocatalyst. <i>Nanoscale Advances</i> , 2021, 3, 177-181.	2.2	6
4752	Progress in layered cathode and anode nanoarchitectures for charge storage devices: Challenges and future perspective. <i>Energy Storage Materials</i> , 2021, 35, 443-469.	9.5	42
4753	Perovskite oxides as supercapacitive electrode: Properties, design and recent advances. <i>Coordination Chemistry Reviews</i> , 2021, 431, 213680.	9.5	42
4754	Review on Current Progress of MnO ₂ -Based Ternary Nanocomposites for Supercapacitor Applications. <i>ChemElectroChem</i> , 2021, 8, 291-336.	1.7	62
4755	Plant-derived silica nanoparticles and composites for biosensors, bioimaging, drug delivery and supercapacitors: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1667-1691.	8.3	94
4756	Direct ethanol fuel cells (DEFCs)., 2021, , 95-113.		4
4757	MXenes for Rechargeable Batteries Beyond the Lithium-ion. <i>Advanced Materials</i> , 2021, 33, e2004039.	11.1	224
4758	Recent advancements of copper oxide based nanomaterials for supercapacitor applications. <i>Journal of Energy Storage</i> , 2021, 34, 101995.	3.9	75
4759	Facile synthesis of new hybrid electrode material based on activated carbon/multiwalled carbon nanotubes@ZnFe ₂ O ₄ for supercapacitor applications. <i>Inorganic Chemistry Communication</i> , 2021, 123, 108332.	1.8	39

#	ARTICLE	IF	CITATIONS
4760	Recent Advances in Aqueous Zinc-ion Hybrid Capacitors: A Minireview. ChemElectroChem, 2021, 8, 484-491.	1.7	21
4761	Effect of conductive polypyrrole in poly(acrylonitrile-co-butyl acrylate) water-based binder on the performance of electrochemical double-layer capacitors. Journal of Solid State Electrochemistry, 2021, 25, 963-972.	1.2	7
4762	<scp>Microwave-assisted</scp> synthesis of <scp>cobalt-polyoxometalate</scp> @carbon black nanocomposites and their electrocatalytic ability toward oxygen reduction reaction. International Journal of Energy Research, 2021, 45, 7366-7379.	2.2	12
4763	Fabrication of Pressure-Responsive Energy Device from Nanofluidic Vanadium Pentoxide and Polymeric Hydrogel. ACS Applied Electronic Materials, 2021, 3, 277-284.	2.0	8
4764	Collaboration between a Pt-dimer and neighboring Co-Pd atoms triggers efficient pathways for oxygen reduction reaction. Physical Chemistry Chemical Physics, 2021, 23, 1822-1834.	1.3	16
4765	Theoretical Study on a Potential Oxygen Reduction Reaction Electrocatalyst: Single Fe Atoms Supported on Graphite Carbonitride. Langmuir, 2021, 37, 428-436.	1.6	9
4766	Tough and Flexible, Super Ion-Conductive Electrolyte Membranes for Lithium-Based Secondary Battery Applications. Advanced Functional Materials, 2021, 31, 2008586.	7.8	37
4767	Three-Dimensional Numerical Simulations on the Effect of Particle Porosity of Lithium-Nickel-Manganese-Cobalt-Oxide on the Performance of Positive Lithium-ion Battery Electrodes. Energy Technology, 2021, 9, 2000676.	1.8	4
4768	Strategies towards the challenges of zinc metal anode in rechargeable aqueous zinc ion batteries. Energy Storage Materials, 2021, 35, 19-46.	9.5	212
4769	A universal strategy for ultra-flexible inorganic all-solid-state supercapacitors. Journal of Alloys and Compounds, 2021, 852, 156613.	2.8	6
4770	Vertically aligned carbon nanotubes-coated aluminium foil as flexible supercapacitor electrode for high power applications. Carbon Letters, 2021, 31, 473-481.	3.3	13
4771	Cathodes for Aqueous Zn-ion Batteries: Materials, Mechanisms, and Kinetics. Chemistry - A European Journal, 2021, 27, 830-860.	1.7	84
4772	Molecular Vanadium Oxides for Energy Conversion and Energy Storage: Current Trends and Emerging Opportunities. Angewandte Chemie - International Edition, 2021, 60, 7522-7532.	7.2	77
4773	Molekulare Vanadiumoxide für Energiewandlung und Energiespeicherung: Derzeitige Trends und zukünftige Möglichkeiten. Angewandte Chemie, 2021, 133, 7600-7611.	1.6	7
4774	The synthesis and characterization of size-controlled monometallic nanoparticles. , 2021, , 449-463.		0
4775	Energy Storage Devices (Supercapacitors and Batteries). Engineering Materials, 2021, , 53-75.	0.3	2
4776	Building next-generation supercapacitors with battery type Ni(OH) ₂ . Journal of Materials Chemistry A, 2021, 9, 15542-15585.	5.2	74
4777	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. Energy and Environmental Science, 2021, 14, 3796-3839.	15.6	257

#	ARTICLE	IF	CITATIONS
4778	Tri-atomic Pt clusters induce effective pathways in a Co _{core} –Pd _{shell} nanocatalyst surface for a high-performance oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18012-18025.	1.3	5
4779	Electrochemical study of copper oxide and activated charcoal based nanocomposite electrode for supercapacitor. <i>Materials Today: Proceedings</i> , 2021, 46, 5722-5729.	0.9	4
4780	Superior catalytic activity of Ni(OH) ₂ for urea electrolysis. <i>Catalysis Science and Technology</i> , 2021, 11, 4294-4300.	2.1	18
4781	Two-electron-active tetracyanoethylene for nonaqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13867-13873.	5.2	5
4782	Synthesis of mesoporous carbon platelets of high surface area and large porosity from polymer blends–calcium phosphate nanocomposites for high-power supercapacitor. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 462-468.	0.8	3
4783	High-performance symmetric supercapacitor based on molybdenum disulfide/poly(3,4-ethylenedioxythiophene)–poly(styrenesulfonate) composite electrodes deposited by spray-coating. <i>International Journal of Energy Research</i> , 2021, 45, 9021-9038.	2.2	8
4784	Performance and application of carbon-based electrocatalysts in direct methanol fuel cell. <i>Materials Advances</i> , 2021, 2, 5344-5364.	2.6	28
4785	Electrochemically active site-rich nanocomposites of two-dimensional materials as anode catalysts for direct oxidation fuel cells: new age beyond graphene. <i>Nanoscale Advances</i> , 2021, 3, 3681-3707.	2.2	13
4786	Fundamentals of electrochemistry. , 2021, , 1-15.		2
4787	Hybridizing Lead–Acid Batteries with Supercapacitors: A Methodology. <i>Energies</i> , 2021, 14, 507.	1.6	16
4788	Nanoarchitected conducting polymers: Rational design and relative activity for next-generation supercapacitors. , 2021, , 27-58.		0
4789	CuS cluster microspheres anchored on reduced graphene oxide as electrode material for asymmetric supercapacitors with outstanding performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 4805-4814.	1.1	9
4790	Nanoporous Metallic Foams for Energy Applications: Electrochemical Approaches for Synthesizing and Characterization. , 2021, , 489-511.		2
4791	Cyclic stability of supercapacitors: materials, energy storage mechanism, test methods, and device. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24094-24147.	5.2	141
4792	High-performance supercapacitor electrode based on naphthoquinone-appended dopamine neurotransmitter as an efficient energy storage material. <i>New Journal of Chemistry</i> , 2021, 45, 5154-5164.	1.4	13
4793	Interfacial atomic Ni tetragon intercalation in a NiO ₂ -to-Pd hetero-structure triggers superior HER activity to the Pt catalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12019-12028.	5.2	19
4794	A Strategy for Sizing and Optimizing the Energy System on Long-Range AUVs. <i>IEEE Journal of Oceanic Engineering</i> , 2021, 46, 1132-1143.	2.1	13
4795	Recycling of Cobalt Oxides Electrodes from Spent Lithium-Ion Batteries by Electrochemical Method. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2021, , 91-123.	1.4	19

#	ARTICLE	IF	CITATIONS
4796	Recycled Nanomaterials for Energy Storage (Supercapacitor) Applications. Topics in Mining, Metallurgy and Materials Engineering, 2021, , 175-202.	1.4	10
4797	Carbonate formation lowers the electrocatalytic activity of perovskite oxides for water electrolysis. Journal of Materials Chemistry A, 2021, 9, 19940-19948.	5.2	11
4798	Evaluation of Ga _{0.2} Li _{6.4} Nd ₃ Zr ₂ O ₁₂ garnets: exploiting dopant instability to create a mixed conductive interface to reduce interfacial resistance for all solid state batteries. Dalton Transactions, 2021, 50, 13786-13800.	1.6	6
4799	Seaweed extractions as promising polymer electrolytes for lithium batteries. E3S Web of Conferences, 2021, 308, 01022.	0.2	1
4800	The Potential of MOFs in the Field of Electrochemical Energy Storage. , 2021, , 111-154.		2
4801	Recent Advances in Hybrid Supercapacitors. Environmental Chemistry for A Sustainable World, 2021, , 75-113.	0.3	0
4802	Air activation of charcoal monoliths for capacitive energy storage. RSC Advances, 2021, 11, 15118-15130.	1.7	5
4803	A heat-melt adhesive-assisted transferable electrode films. Scientific Reports, 2021, 11, 36.	1.6	0
4804	Electrospun nanofibers and their applications in rechargeable zinc-air batteries. Materials Chemistry Frontiers, 2021, 5, 2950-2966.	3.2	16
4805	Advanced applications of green materials in supercapacitors. , 2021, , 339-371.		3
4806	Energy consumption and environmental consequences. , 2021, , 1-55.		0
4807	Designing neurotransmitter dopamine-functionalized naphthalene diimide molecular architectures for high-performance organic supercapacitor electrode materials. New Journal of Chemistry, 2021, 45, 9346-9357.	1.4	15
4808	Nanoengineered Electrodes for Biomass-Derived 5-Hydroxymethylfurfural Electrocatalytic Oxidation to 2,5-Furandicarboxylic Acid. ACS Sustainable Chemistry and Engineering, 2021, 9, 1970-1993.	3.2	65
4809	Engineering electrocatalyst nanosurfaces to enrich the activity by inducing lattice strain. Energy and Environmental Science, 2021, 14, 3717-3756.	15.6	98
4810	High-performance ultracapacitor electrodes realized by 3-dimensionally bicontinuous block copolymer nanostructures with enhanced ion kinetics. Journal of Materials Chemistry A, 2021, 9, 16119-16128.	5.2	2
4811	Co ₃ Fe ₇ nanoparticles encapsulated in porous nitrogen-doped carbon nanofibers as bifunctional electrocatalysts for rechargeable zinc-air batteries. Materials Chemistry Frontiers, 2021, 5, 6559-6567.	3.2	10
4812	Pentafluoropyridine functionalized novel heteroatom-doped with hierarchical porous 3D cross-linked graphene for supercapacitor applications. RSC Advances, 2021, 11, 26892-26907.	1.7	8
4813	Recent trends in graphene supercapacitors: from large area to microsupercapacitors. Sustainable Energy and Fuels, 2021, 5, 1235-1254.	2.5	105

#	ARTICLE	IF	CITATIONS
4814	Boosting the capacity of biomass-based supercapacitors using carbon materials of wood derivatives and redox molecules from plants. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11839-11852.	5.2	72
4815	Theoretical study of activation of O ₂ at cathode and CH ₃ OH at anode of CH ₃ OH/O ₂ -fuel cell using ZnC ₄ H ₄ and. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 793-798.	0.8	1
4816	Supercapacitors based on graphene and its hybrids. , 2021, , 129-157.		0
4817	2D Redox-Active Covalent Organic Frameworks for Supercapacitors: Design, Synthesis, and Challenges. <i>Small</i> , 2021, 17, e2005073.	5.2	64
4818	Atomic and molecular layer deposition in pursuing better batteries. <i>Journal of Materials Research</i> , 2021, 36, 2-25.	1.2	22
4820	Manganese Oxides-Graphene Nanocomposites as Advanced Supercapacitors. , 2022, , 523-556.		1
4821	Green and facile preparation of graphene/resveratrol/polyaniline composites for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2021, 45, 3581-3588.	1.4	2
4822	Clarifying the lithium storage behavior of MoS ₂ with <i>in situ</i> electrochemical impedance spectroscopy. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15734-15743.	5.2	18
4823	<i>In situ</i> exfoliation and modification of graphite foil in supercapacitor devices: a facile strategy to fabricate high-performance supercapacitors. <i>RSC Advances</i> , 2021, 11, 4006-4010.	1.7	3
4824	<i>In situ</i> polymerization process: an essential design tool for lithium polymer batteries. <i>Energy and Environmental Science</i> , 2021, 14, 2708-2788.	15.6	140
4825	Water based synthesis of highly conductive GaxLi7a [~] 3xLa3Hf2O12 garnets with comparable critical current density to analogous GaxLi7a [~] 3xLa3Zr2O12 systems. <i>Dalton Transactions</i> , 2021, 50, 2364-2374.	1.6	6
4826	Insights into the structure and ionic transport in water-in-bisalt™ electrolytes for lithium-ion batteries. <i>Materials Advances</i> , 2021, 2, 7691-7700.	2.6	4
4827	Biowaste eggshells as efficient electrodes for energy storage. , 2021, , 475-495.		0
4828	Role of Polymers in Enhancing the Performance of Electrochemical Supercapacitors: A Review. <i>Batteries and Supercaps</i> , 2021, 4, 571-584.	2.4	54
4829	3D Graphene Nanocomposite by Electrospinning for Supercapacitor. <i>Carbon Nanostructures</i> , 2021, , 93-118.	0.1	0
4830	High-Performance Organometallic Catalyst Based on Nickel Porphyrin/Carbon Fibre for the Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2021, 168, 016510.	1.3	12
4831	Chemical supercapacitors: a review focusing on metallic compounds and conducting polymers. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1970-2017.	5.2	186
4832	Yâ€F co-doping behavior of LiFePO ₄ /C nanocomposites for high-rate lithium-ion batteries. <i>New Journal of Chemistry</i> , 2021, 45, 5695-5703.	1.4	18

#	ARTICLE	IF	CITATIONS
4833	Porous Carbons as Oxygen Reduction Electrocatalysts. <i>Engineering Materials</i> , 2021, , 41-77.	0.3	0
4834	Electrochemical performance of surfactant based BiPO ₄ nanostructures for energy storage applications. <i>Materials Today: Proceedings</i> , 2021, 43, 3225-3230.	0.9	5
4835	CHAPTER 4. 3D Graphene-based Materials for Enhancing the Energy Density of Sodium Ion Batteries. <i>Chemistry in the Environment</i> , 2021, , 86-114.	0.2	0
4836	Background of energy storage. , 2021, , 1-26.		3
4837	An MnO ₂ nanosheet@nitrogen-doped graphene aerogel enables high specific energy and high specific power for supercapacitors and Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5848-5856.	5.2	13
4838	Investigation on Fabrication of Reduced Graphene Oxide-Sulfur Composite Cathodes for Li-S Battery via Hydrothermal and Thermal Reduction Methods. <i>Materials</i> , 2021, 14, 861.	1.3	4
4839	Next-Generation Materials for Energy Storage and Conversion. <i>Materials</i> , 2021, 14, 696.	1.3	1
4840	Synthesis of mesoporous cobalt-doped manganese oxides for high-performance supercapacitors. <i>Ionics</i> , 2021, 27, 2181-2192.	1.2	5
4841	Deep Cycling for High-Capacity Li-Ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2004998.	11.1	43
4842	Envisaging Future Energy Storage Materials for Supercapacitors: An Ensemble of Preliminary Attempts. <i>ChemistrySelect</i> , 2021, 6, 1127-1161.	0.7	17
4843	Surface Modification of Sputtered Carbon Supercapacitor Electrode by Hydrogen Annealing. <i>Key Engineering Materials</i> , 0, 875, 49-54.	0.4	0
4844	CuMn ₂ O ₄ spinel anchored on graphene nanosheets as a novel electrode material for supercapacitor. <i>Journal of Energy Storage</i> , 2021, 34, 102181.	3.9	59
4845	Structure and Transport of Solvent Ligated Octahedral Mg-Ion in an Aqueous Battery Electrolyte. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 1543-1554.	1.0	4
4846	Non-noble Metal Electrocatalysts for the Hydrogen Evolution Reaction in Water Electrolysis. <i>Electrochemical Energy Reviews</i> , 2021, 4, 473-507.	13.1	224
4847	Nanostructure Nickel-Based Selenides as Cathode Materials for Hybrid Battery-Supercapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 611032.	1.8	6
4848	Electrochemical performance of SnO ₂ rods and SnO ₂ /rGO, SnO ₂ /MWCNTs composite materials as an anode for lithium-ion battery application-A comparative study. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7619-7629.	1.1	6
4849	Technology generation of lithium batteries in leading countries. <i>Environmental Science and Pollution Research</i> , 2021, 28, 28367-28380.	2.7	5
4850	Investigation of Voltage Range and Self-Discharge in Aqueous Zinc-Ion Hybrid Supercapacitors. <i>ChemSusChem</i> , 2021, 14, 1700-1709.	3.6	51

#	ARTICLE	IF	CITATIONS
4851	Highly electrochemical active composites based on capacitive graphene/aniline oligomer hybrid for high-performance sustainable energy storage devices. <i>Electrochimica Acta</i> , 2021, 368, 137587.	2.6	7
4852	Heterogenization of Ionic liquid Boosting Electrochemical Oxygen Reduction Performance of Co ₃ O ₄ Supported on Graphene Oxide. <i>ChemCatChem</i> , 2021, 13, 1546-1551.	1.8	6
4853	Understanding the Electrolytes of Lithium-Sulfur Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1064-1095.	2.4	23
4854	Ethanol Biofuel Cells: Hybrid Catalytic Cascades as a Tool for Biosensor Devices. <i>Biosensors</i> , 2021, 11, 41.	2.3	9
4855	Skeleton Engineering of Isostructural 2D Covalent Organic Frameworks: Orthoquinone Redox-Active Sites Enhanced Energy Storage. <i>CCS Chemistry</i> , 2021, 3, 696-706.	4.6	62
4856	Graphene nanosheets derived from plastic waste for the application of DSSCs and supercapacitors. <i>Scientific Reports</i> , 2021, 11, 3916.	1.6	76
4857	Pre-Lithiation Strategies for Lithium Ion Capacitors: Past, Present, and Future. <i>Batteries and Supercaps</i> , 2021, 4, 733-748.	2.4	36
4858	Preparation and Application of Keggin Polyoxometalate-based 3D Coordination polymer Materials as Supercapacitors and Amperometric Sensors. <i>ChemNanoMat</i> , 2021, 7, 299-306.	1.5	19
4859	Effect of various aqueous electrolytes on the electrochemical performance of V ₂ O ₅ spindle-like nanostructures as electrode material for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 6623-6635.	1.1	5
4860	Semiconductor Properties of Electrodeposited Manganese Dioxide for Electrochemical Capacitors: Mott-Schottky Analysis. <i>Journal of the Electrochemical Society</i> , 2021, 168, 020508.	1.3	10
4861	High-Potential Pseudocapacitive Energy Storage System: Iron-Based Polyferric Sulfate Electrolyte and Partially Sacrificial Graphite Electrode. <i>Science of Advanced Materials</i> , 2021, 13, 490-496.	0.1	0
4862	Pencil graphite as electrode platform for free chlorine sensors and energy storage devices. <i>PLoS ONE</i> , 2021, 16, e0248142.	1.1	10
4863	Facile Synthesis of MgCo ₂ O ₄ @MMoO ₄ (M = Co, Ni) Nanosheet Arrays on Nickel Foam as an Advanced Electrode for Asymmetric Supercapacitors. <i>Energy & Fuels</i> , 2021, 35, 6272-6281.	2.5	7
4864	Progress and challenges of ceramics for supercapacitors. <i>Journal of Materiomics</i> , 2021, 7, 1198-1224.	2.8	15
4865	Supercapacitor electrode materials: addressing challenges in mechanism and charge storage. <i>Reviews in Inorganic Chemistry</i> , 2022, 42, 53-88.	1.8	66
4866	Synergistic Interaction of Ternary Ni-Co-Cu Chalcogenides Confined in Nanosheets Array to Advance Supercapacitors and Solar Steam Generation. <i>Solar Rrl</i> , 2021, 5, 2100021.	3.1	21
4867	High Li-ion conductivity in tetragonal LGPO: A comparative first-principles study against known LISICON and LGPS phases. <i>Physical Review Materials</i> , 2021, 5, .	0.9	8
4868	3D printing of high-performance micro-supercapacitors with patterned exfoliated graphene/carbon nanotube/silver nanowire electrodes. <i>Science China Technological Sciences</i> , 2021, 64, 1065-1073.	2.0	21

#	ARTICLE	IF	CITATIONS
4869	A Growing Appreciation for the Role of LiF in the Solid Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2021, 11, 2100046.	10.2	401
4870	Facile microwave-assisted synthesis of cobalt diselenide/reduced graphene oxide composite for high-performance supercapacitors. <i>Applied Surface Science</i> , 2021, 543, 148811.	3.1	33
4871	Metal/Covalent Organic Framework Based Cathodes for Metal-Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100172.	10.2	124
4872	Electrochemical performance comparison study of ternary RGO/Ni(OH) ₂ -CeO ₂ nanocomposite prepared from hydrothermal and solid-state methods for supercapacitors. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2021, 12, 015016.	0.7	5
4873	Understanding the Effectiveness of Phospholane Electrolyte Additives in Lithium-Ion Batteries under High Voltage Conditions. <i>ChemElectroChem</i> , 2021, 8, 972-982.	1.7	5
4875	Heat generation in electric double layer capacitors with neat and diluted ionic liquid electrolytes under large potential window between 5 and 80°C. <i>Journal of Power Sources</i> , 2021, 488, 229368.	4.0	16
4876	Comparative Studies of Solutions of Homogeneous Electrochemical Capacitors Models. <i>Journal of Energy Storage</i> , 2021, 35, 102221.	3.9	1
4877	Insights into Na-Ion Storage Behavior of Solid Waste-Derived Carbon via Charge-Averaged Discharge/Charge Voltages. <i>Energy & Fuels</i> , 2021, 35, 5291-5297.	2.5	3
4878	Recent progress and challenges of cobalt-based compound for aqueous Zn battery. <i>Nano Select</i> , 2021, 2, 1642-1660.	1.9	9
4879	Three-dimensional hierarchical CC@ZnO/MnO ₂ as electrodes for supercapacitors with high electrochemical performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8593-8602.	1.1	4
4880	Iron (II and III) Oxides/Reduced Graphene Oxide/Polypyrrole Ternary Nanocomposite as Electrochemical Supercapacitor Electrode. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030543.	1.3	12
4882	The prospects and challenges of solar electrochemical capacitors. <i>Journal of Energy Storage</i> , 2021, 35, 102294.	3.9	10
4883	Facile synthesis of NiCo ₂ S ₄ nanosheets on graphitized carbon microspheres for high-performance asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2021, 35, 102309.	3.9	15
4884	Frontiers in Hybrid Ion Capacitors: A Review on Advanced Materials and Emerging Devices. <i>ChemElectroChem</i> , 2021, 8, 1393-1429.	1.7	43
4885	Preferential Protection of Low Coordinated Sites in Pt Nanoparticles for Enhancing Durability of Pt/C Catalyst. <i>Energies</i> , 2021, 14, 1419.	1.6	3
4886	Highly Porous Cu ₂ O Photocathode via Electrochemical Reconstruction of Dense Thin Films. <i>Journal of the Electrochemical Society</i> , 2021, 168, 032504.	1.3	2
4887	Atomic cobalt anchored on covalent triazine frameworks with ultra-high performance towards oxygen reduction reaction. <i>Science China Materials</i> , 2021, 64, 2221-2229.	3.5	12
4888	Junction and energy band on novel semiconductor-based fuel cells. <i>IScience</i> , 2021, 24, 102191.	1.9	45

#	ARTICLE	IF	CITATIONS
4889	High-Voltage Zinc-Ion Batteries: Design Strategies and Challenges. <i>Advanced Functional Materials</i> , 2021, 31, 2010213.	7.8	123
4890	Micronanostructured Design of Dendrite-Free Zinc Anodes and Their Applications in Aqueous Zinc-Based Rechargeable Batteries. <i>Small Structures</i> , 2021, 2, 2000128.	6.9	79
4891	Pure carbon-based electrodes for metal-ion batteries. <i>Carbon Trends</i> , 2021, 3, 100035.	1.4	10
4892	Direct Utilization of Photoinduced Charge Carriers to Promote Electrochemical Energy Storage. <i>Small</i> , 2021, 17, e2008047.	5.2	23
4893	Sulfur and nitrogen co-doped rGO sheets as efficient electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Diamond and Related Materials</i> , 2021, 114, 108338.	1.8	15
4894	Electrocatalytic O ₂ Reduction by an Organometallic Pd(III) Complex via a Binuclear Pd(III) Intermediate. <i>ACS Catalysis</i> , 2021, 11, 5202-5211.	5.5	14
4895	Graphene: A promising candidate for charge regulation in high-performance lithium-ion batteries. <i>Nano Research</i> , 2021, 14, 4370-4385.	5.8	25
4896	Entropy formation of an electrical double layer with divalent off-centre charge cations: Monte Carlo studies. <i>Molecular Physics</i> , 0, , e1918774.	0.8	5
4897	Theories and models of supercapacitors with recent advancements: impact and interpretations. <i>Nano Express</i> , 2021, 2, 022004.	1.2	37
4898	Nanostructured Iron Sulfide/N, S Dual-Doped Carbon Nanotube-Graphene Composites as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Materials</i> , 2021, 14, 2146.	1.3	19
4899	Theoretical study of the catalytic effect of TM-C ₄ H ₄ and TM-C ₅ H ₅ (TM = Cr, Ti, V, Sc) on the activation of O ₂ at the cathode and CH ₃ OH at the anode in a CH ₃ OH-O ₂ fuel cell via DFT computational method. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103062.	2.3	3
4900	Study on the Integral Compensator Using Supercapacitor for Energy Harvesting in Low-Power Sections of Solar Energy. <i>Energies</i> , 2021, 14, 2262.	1.6	2
4901	Fabrication and Evaluation of Flexible Micro-Supercapacitor from MWCNTs-Ag Nanohybrid-Sulfonated PANI Nanocomposite Embedded PVA-TEOS Membrane. <i>ChemistrySelect</i> , 2021, 6, 3126-3138.	0.7	3
4902	Aerosol-Jet-Printed CoFe ₂ O ₄ Nanoparticle Vertically Aligned Carbon Nanotube Composite for Microsupercapacitors. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7590-7597.	1.5	7
4903	Synthesis and energy applications of multi-shell micro/nano-spheres. <i>International Journal of Energy Research</i> , 2021, 45, 14389-14413.	2.2	4
4904	Demonstration of 1.5 V asymmetric supercapacitor developed using MnSe ₂ -CoSe ₂ metal composite. <i>Ceramics International</i> , 2021, 47, 11786-11792.	2.3	31
4905	Microfluidics for flexible electronics. <i>Materials Today</i> , 2021, 44, 105-135.	8.3	65
4906	Facile Cyclic Voltammetric-Induced Trimetallic Oxides with Shear-Wall Structure Exhibiting Advanced Performance in an Asymmetric Pseudocapacitor. <i>Energy Technology</i> , 2021, 9, 2001136.	1.8	0

#	ARTICLE	IF	CITATIONS
4907	Recent advances in the synthesis of non-carbon two-dimensional electrode materials for the aqueous electrolyte-based supercapacitors. Chinese Chemical Letters, 2021, 32, 3733-3752.	4.8	14
4908	Ternary Nanocomposites of Reduced Graphene Oxide, Polyaniline, and Iron Oxide Applied for Energy Storage. ACS Applied Nano Materials, 2021, 4, 5553-5563.	2.4	18
4909	Effect of Hydrogen Bonding on a Value of an Open Circuit Potential of Poly(3,4-ethylenedioxythiophene) as a Beneficial Mode for Energy Storage Devices. Advanced Functional Materials, 2021, 31, 2103001.	7.8	6
4910	In situ 3D printing of implantable energy storage devices. Chemical Engineering Journal, 2021, 409, 128213.	6.6	21
4911	Ion-Exchange: A Promising Strategy to Design Li-Rich and Li-Excess Layered Cathode Materials for Li-Ion Batteries. Advanced Energy Materials, 2022, 12, 2003972.	10.2	49
4912	Interface- and Surface-Engineered Pd ₂ RuO ₂ Hetero-Nanostructures with High Activity for Hydrogen Evolution/Oxidation Reactions. ChemSusChem, 2021, 14, 2112-2125.	3.6	23
4913	Multilayer Reduced Graphene Oxide Deposited on Carbon Sheet as Electrodes for Supercapacitor Device. Materials Science Forum, 0, 1028, 157-161.	0.3	0
4914	Influence of Aging on the Failing Behavior of Automotive Lithium-Ion Batteries. Batteries, 2021, 7, 23.	2.1	15
4915	CNT-based Materials as Electrodes for Flexible Supercapacitors. U Porto Journal of Engineering, 2021, 7, 151-162.	0.2	3
4916	MnO ₂ Nanowires@NiCo-LDH Nanosheet Core-Shell Heterostructure: A Slow Irreversible Transition of Hydrotalcite Phase for High-Performance Pseudocapacitance Electrode. ACS Applied Energy Materials, 2021, 4, 3983-3992.	2.5	34
4917	Single Transition Metal Atom Bound to the Unconventional Phase of the MoS ₂ Monolayer for Catalytic Oxygen Reduction Reaction: A First-Principles Study. ACS Applied Materials & Interfaces, 2021, 13, 17412-17419.	4.0	26
4918	MXenes as Superexcellent Support for Confining Single Atom: Properties, Synthesis, and Electrocatalytic Applications. Small, 2021, 17, e2007113.	5.2	52
4919	On the Question of Energy and Power Potentials of the Electrode Materials in the Rechargeable Cells. International Journal of Electrochemical Science, 2021, 16, 210535.	0.5	1
4920	Dopamine-assisted chemical vapour deposition of polypyrrole on graphene for flexible supercapacitor. Applied Surface Science, 2021, 547, 149141.	3.1	21
4921	Ball-milling fabrication of PPy/Ni ₂ P/GO composites for high-performance supercapacitor electrodes. Journal of Solid State Electrochemistry, 2021, 25, 1975-1985.	1.2	16
4922	Polyacrylonitrile/polyvinyl alcohol-based porous carbon nanofiber electrodes for supercapacitor applications. International Journal of Energy Research, 2021, 45, 16497-16510.	2.2	18
4923	Cationic intermediates assisted self-assembly two-dimensional Ti ₃ C ₂ T _r GO hybrid nanoflakes for advanced lithium-ion capacitors. Science Bulletin, 2021, 66, 914-924.	4.3	161
4924	Review of lead-free Bi-based dielectric ceramics for energy-storage applications. Journal Physics D: Applied Physics, 2021, 54, 293001.	1.3	38

#	ARTICLE	IF	CITATIONS
4925	A Dual Functionality of Ternary Metalâ€Oxide Nanoflakes for Highâ€Performance of Micro Supercapacitor and Electrochemical Sensing of Dyes in Water. <i>ChemistrySelect</i> , 2021, 6, 4968-4978.	0.7	2
4927	Applications of Carbon in Rechargeable Electrochemical Power Sources: A Review. <i>Energies</i> , 2021, 14, 2649.	1.6	26
4928	High performance flexible quasi-solid-state zinc-ion hybrid supercapacitors enable by electrode potential adjustment. <i>Journal of Power Sources</i> , 2021, 495, 229789.	4.0	18
4929	Microporous 3D Grapheneâ€Like Carbon as Iodine Host for Zincâ€Based Batteryâ€Supercapacitor Hybrid Energy Storage with Ultrahigh Energy and Power Densities. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100076.	2.8	11
4930	A facile synthesis of ZnMn ₂ O ₄ /Mn ₂ O ₃ composite nanostructures for supercapacitor applications. <i>Ceramics International</i> , 2021, 47, 12300-12309.	2.3	27
4931	Developing Effective Electrodes for Supercapacitors by Grafting of Trihydroxybenzene onto Activated Carbons. <i>Journal of the Electrochemical Society</i> , 2021, 168, 050520.	1.3	2
4932	Recent Advances on Electrospun Nanomaterials for Zincâ€Air Batteries. <i>Small Science</i> , 2021, 1, 2100010.	5.8	88
4933	Molybdenum Disulfide Quantum Dots: Properties, Synthesis, and Applications. <i>Journal of Carbon Research</i> , 2021, 7, 45.	1.4	15
4934	A Highly Active Rh@Pd Nanocube Catalyst for Methanol Electrooxidation. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100058.	2.8	2
4935	Spin Effect on Oxygen Electrocatalysis. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100034.	2.8	32
4936	Advanced and Emerging Negative Electrodes for Li-Ion Capacitors: Pragmatism vs. Performance. <i>Energies</i> , 2021, 14, 3010.	1.6	4
4940	Tris(2,2,2-trifluoroethyl) Phosphate as a Cosolvent for a Nonflammable Electrolyte in Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 4919-4927.	2.5	12
4941	Petroleum Coke as an Efficient Single Carbon Source for High-Energy and High-Power Lithium-Ion Capacitors. <i>Energy & Fuels</i> , 2021, 35, 9010-9016.	2.5	17
4942	2D Covalentâ€Organic Framework Electrodes for Supercapacitors and Rechargeable Metalâ€Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2100177.	10.2	87
4943	Cyanogel and its derived-materials: properties, preparation methods, and electrochemical applications. <i>Materials Today Energy</i> , 2021, 20, 100701.	2.5	7
4944	Iron Quantum Dots Electro-Assembling on Vulcan XC-72R: Hydrogen Peroxide Generation for Space Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29585-29601.	4.0	8
4945	A Model for Investigating Sources of Li-Ion Battery Electrode Heterogeneity: Part I. Electrode Drying and Calendering Processes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060547.	1.3	17
4947	Preparations, Properties, and Applications of Polyaniline and Polyaniline Thin Filmsâ€A Review. <i>Polymers</i> , 2021, 13, 2003.	2.0	215

#	ARTICLE	IF	CITATIONS
4948	Advances in Lithium–Sulfur Batteries: From Academic Research to Commercial Viability. <i>Advanced Materials</i> , 2021, 33, e2003666.	11.1	357
4949	Aging processes in high voltage lithium-ion capacitors containing liquid and gel-polymer electrolytes. <i>Journal of Power Sources</i> , 2021, 496, 229797.	4.0	7
4950	One-dimensional channel to trigger high-performance sodium-ion battery via doping engineering. <i>Nano Energy</i> , 2021, 84, 105875.	8.2	11
4951	3D Lattice-Matching Layered Hydroxide Heterostructure with Improved Interfacial Charge Transfer and Ion Diffusion for High Energy Density Supercapacitor. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100429.	1.9	5
4952	Carbon nanotubes-based electrode for Zn ion batteries. <i>Materials Research Bulletin</i> , 2021, 138, 111246.	2.7	18
4953	Synergistic Effect of Oxygen and Nitrogen Co-doping in Metal–Organic Framework-Derived Ultramicroporous Carbon for an Exceptionally Stable Solid-State Supercapacitor via a “Proton Trap” Mechanism. <i>Energy & Fuels</i> , 2021, 35, 10262-10273.	2.5	19
4954	A highly durable CoO _x /N-doped graphitized-nano-diamond electrocatalyst for oxygen reduction reaction. <i>Nanotechnology</i> , 2021, 32, 355708.	1.3	5
4955	Cucurbit[8]uril-derived porous carbon as high-performance electrode material for ionic liquid-based supercapacitor. <i>Journal of Energy Storage</i> , 2021, 38, 102527.	3.9	11
4956	One-pot hydrothermal synthesis of 3D Cu ₂ Se/CoSe composite as a novel battery-type cathode material with enhanced capacitive properties. <i>Journal of Alloys and Compounds</i> , 2021, 866, 158972.	2.8	27
4957	Silver-doped molybdenum oxide ternary nanoparticles with excellent supercapacitor and hydrogen peroxide-sensing performance. <i>Materials Today Energy</i> , 2021, 20, 100774.	2.5	7
4958	ZTIFs derived nitrogen-introduced high specific area and hierarchical porous carbon for oxygen reduction reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17094-17104.	1.1	0
4959	N-Doped Mesoporous Carbon Prepared from a Polybenzoxazine Precursor for High Performance Supercapacitors. <i>Polymers</i> , 2021, 13, 2048.	2.0	16
4960	Enhanced Electrochemical Performance of Li ₄ Ti ₅ O ₁₂ by Niobium Doping for Pseudocapacitive Applications. <i>Micro</i> , 2021, 1, 28-42.	0.9	5
4961	Exploring the impact of MoS ₂ on the performance of the planar solid micro-supercapacitor. <i>Materials Chemistry and Physics</i> , 2021, 265, 124490.	2.0	5
4962	Molecular Dynamics and Emerging Network Graphs of Interactions in Dinitrile-Based Li-Ion Battery Electrolytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 7231-7240.	1.2	3
4963	Modeling electrochemical properties of LiMn _{1-x} Co _x BO ₃ for cathode materials in lithium-ion rechargeable batteries. <i>Scientific Reports</i> , 2021, 11, 11858.	1.6	2
4964	Microfluidic synthesis of platinum nanoparticles supported on reduced graphene oxide, titanium dioxide, and carbon for PEM fuel cells. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 990-1000.	0.9	1
4965	Constructing nano-channeled tin layer on metal zinc for high-performance zinc-ion batteries anode. <i>EcoMat</i> , 2021, 3, e12125.	6.8	55

#	ARTICLE	IF	CITATIONS
4966	Recent progress in cobalt-based carbon materials as oxygen electrocatalysts for zinc-air battery applications. <i>Materials Today Energy</i> , 2021, 20, 100659.	2.5	31
4967	Hierarchical ReS_2 / nitrogen-doped graphene hybrid nanoarchitectures for efficient oxygen reduction. <i>International Journal of Energy Research</i> , 2021, 45, 19586-19596.	2.2	2
4968	The bifunctional performance analysis of synthesized Ce doped $\text{SnO}_2/\text{g-C}_3\text{N}_4$ composites for asymmetric supercapacitor and visible light photocatalytic applications. <i>Journal of Alloys and Compounds</i> , 2021, 866, 158807.	2.8	68
4969	Simple and cost-effective synthesis of activated carbon@few layers of graphene composite electrode for supercapacitor applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1166, 012007.	0.3	1
4970	A Novel Strategy of Multi-Element Nanocomposite Synthesis for High Performance ZnO-CoSe_2 Supercapacitor Material Development. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2441-2450.	2.6	16
4971	<i>In Situ</i> X-ray Absorption Spectroscopy of PtNi-Nanowire/Vulcan XC-72R under Oxygen Reduction Reaction in Alkaline Media. <i>ACS Omega</i> , 2021, 6, 17203-17216.	1.6	5
4972	Biomass-based activated carbon monolith from <i>Tectona grandis</i> leaf as supercapacitor electrode materials. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-12.	1.2	13
4973	Supercapacitor fabricated with 30 M KOH electrolyte and highly stable Pd ₄ S electrodes. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	2
4974	Novel Dealloying-Fabricated NiS/NiO Nanoparticles with Superior Cycling Stability for Supercapacitors. <i>ACS Omega</i> , 2021, 6, 17999-18007.	1.6	22
4975	Ultra-small Fe_3O_4 nanoparticles encapsulated in hollow porous carbon nanocapsules for high performance supercapacitors. <i>Carbon</i> , 2021, 179, 327-336.	5.4	59
4976	Recent advances and challenges in solar photovoltaic and energy storage materials: future directions in Indian perspective. <i>JPhys Energy</i> , 2021, 3, 034018.	2.3	10
4977	Anomalous intra diffusive behavior of chitosan/PVDF solid polymer electrolytes and the enhancement of effective specific capacitance with nanostructured spinel MnCoFeO_4 electrode in solid-state supercapacitors. <i>Electrochimica Acta</i> , 2021, 385, 138295.	2.6	14
4978	Guest-species-incorporation in manganese/vanadium-based oxides: Towards high performance aqueous zinc-ion batteries. <i>Nano Energy</i> , 2021, 85, 105969.	8.2	71
4979	Hierarchical porous carbon obtained from directly carbonizing <i>Carex meyeriana</i> for high-performance supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 21278-21287.	1.1	8
4980	Hydrothermal synthesis of $\text{Fe}_2\text{-MnO}_2$ nanorods for highly efficient zinc-ion storage. <i>Ionics</i> , 2021, 27, 3943-3950.	1.2	6
4981	Biomass-Derived Carbons as Versatile Materials for Energy-Related Applications: Capacitive Properties vs. Oxygen Reduction Reaction Catalysis. <i>Journal of Carbon Research</i> , 2021, 7, 55.	1.4	6
4982	A hierarchical porous aerogel nanocomposite of graphene/ NiCo_2S_4 as an active electrode material for supercapacitors. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 569-577.	1.5	6
4983	Improved proton conduction of sulfonated poly (ether ether ketone) membrane by sulfonated covalent organic framework nanosheets. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 26550-26559.	3.8	23

#	ARTICLE	IF	CITATIONS
4984	Judicious selection, validation, and use of reference electrodes for in situ and operando electrocatalysis studies. <i>Chem Catalysis</i> , 2021, 1, 997-1013.	2.9	9
4985	Fully organic polyaniline nanotubes as electrode material for durable supercapacitor. <i>Journal of Energy Storage</i> , 2021, 39, 102662.	3.9	18
4987	Fractographic properties of electrode material of supercapacitor (carbon aerogel) with its application. <i>Advances in Materials and Processing Technologies</i> , 0, , 1-11.	0.8	0
4988	Anion Coordination Improves High-Temperature Performance and Stability of NaPF ₆ -Based Electrolytes for Supercapacitors. <i>Energies</i> , 2021, 14, 4409.	1.6	4
4989	Pulsed vs. galvanostatic accelerated stress test protocols: Comparing predictions for anode reversal tolerance in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 500, 229986.	4.0	5
4990	Self-Healable, High-Strength Hydrogel Electrode for Flexible Sensors and Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36240-36252.	4.0	55
4991	Self-Healing Solid Polymer Electrolyte with High Ion Conductivity and Super Stretchability for All-Solid Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 36320-36329.	4.0	42
4992	Design principles and direct applications of cobalt-based metal-organic frameworks for electrochemical energy storage. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213872.	9.5	51
4993	Fabrication of Ag-doped MnO ₂ nanosheets@carbon cloth for energy storage device. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 269, 115150.	1.7	15
4994	Capacitance and Structure of Electric Double Layers: Comparing Brownian Dynamics and Classical Density Functional Theory. <i>Journal of Solution Chemistry</i> , 2022, 51, 296-319.	0.6	19
4995	Controlling of RuO ₂ Nanostructures by Deposition Temperature and Its Effect on Structural, Morphological and Electrochemical Properties. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 071020.	0.9	2
4996	Binder-free NiCoFe layered double hydroxide nanosheets for flexible energy storage devices with high-rate-retention characteristics. <i>Electrochimica Acta</i> , 2021, 384, 138415.	2.6	20
4997	A Review on Transition-metal Oxalate Based Electrode for Supercapacitors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1166, 012032.	0.3	5
4998	Performance evaluation of supercapacitors based on activated carbons and investigation of the impact of aging on the electrodes. <i>Journal of Energy Storage</i> , 2021, 40, 102836.	3.9	12
4999	Modelling of GO/PPy/CB and rGO/PPy/CB nanocomposite supercapacitors using an electrical equivalent circuit. <i>Ionics</i> , 2021, 27, 4531-4547.	1.2	2
5000	Dynamic Behavior of Single-Atom Catalysts in Electrocatalysis: Identification of Cu-N ₃ as an Active Site for the Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 14530-14539.	6.6	218
5001	Designing Advanced Aqueous Zinc-Ion Batteries: Principles, Strategies, and Perspectives. <i>Energy and Environmental Materials</i> , 2022, 5, 823-851.	7.3	69
5002	Microwave Synthesis of Sn-Doped NiO/CNT Composites: The Effect of Sn Incorporation on Their Supercapacitive Properties. <i>Journal of Electronic Materials</i> , 2021, 50, 6102-6113.	1.0	7

#	ARTICLE	IF	CITATIONS
5003	Application of aprotic ionic liquids based on bis(trifluoromethylsulfonyl)imide anion as polymer gel electrolytes for cobalt oxide symmetric supercapacitors. <i>Journal of Energy Storage</i> , 2021, 40, 102761.	3.9	10
5004	Economic designing of high-performance flexible supercapacitor based on cotton leaf derived porous carbon and natural ocean water. <i>Journal of Energy Storage</i> , 2021, 40, 102784.	3.9	11
5005	Application of X-ray Absorption Spectroscopy in Electrocatalytic Water Splitting and CO ₂ Reduction. <i>Small Science</i> , 2021, 1, 2100023.	5.8	16
5006	Activated carbon-supported Vanado-nickelate (IV) based hybrid materials for energy application. <i>Journal of Energy Storage</i> , 2021, 40, 102727.	3.9	15
5007	Pseudocapacitors. , 0, , .		1
5008	Applications of Titanium Dioxide Materials. , 0, , .		5
5009	Enhancing the Electrochemical Properties of Ti-Doped LiMn ₂ O ₄ Spinel Cathode Materials Using a One-Step Hydrothermal Method. <i>ACS Omega</i> , 2021, 6, 21304-21315.	1.6	12
5010	Dual-atom catalysts: controllable synthesis and electrocatalytic applications. <i>Science China Chemistry</i> , 2021, 64, 1908-1922.	4.2	51
5011	Probing electrochemical charge storage of 3D porous hierarchical cobalt oxide decorated rGO in ultra-high-performance supercapacitor. <i>Surface and Coatings Technology</i> , 2021, 419, 127287.	2.2	15
5012	Data-driven many-body models enable a quantitative description of chloride hydration from clusters to bulk. <i>Journal of Chemical Physics</i> , 2021, 155, 064502.	1.2	21
5013	Recent progress of Ni ₃ S ₂ -based nanomaterials in different dimensions for pseudocapacitor application: synthesis, optimization, and challenge. <i>Ionics</i> , 2021, 27, 4573-4618.	1.2	6
5014	Solvent-Assisted Li-Ion Transport and Structural Heterogeneity in Fluorinated Battery Electrolytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10551-10561.	1.2	4
5015	All-in-one energy harvesting system with triboelectric and thermoelectric hybrid generator and Au nanoflower supercapacitor for a light stimulation to the wildlife. <i>International Journal of Energy Research</i> , 2022, 46, 1444-1456.	2.2	4
5016	Capacitive Charge Storage at the Glassy Carbon Electrode: Comparison Between Aqueous and Non-Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 100508.	1.3	4
5017	Self-catalyzed growth of Zn/Co-N-C carbon nanotubes derived from metal-organic frameworks as efficient oxygen reduction catalysts for Zn-air battery. <i>Science China Materials</i> , 2022, 65, 653-662.	3.5	42
5018	Construction of NiCo ₂ O ₄ /O-g-C ₃ N ₄ Nanocomposites: A Battery-Type Electrode Material for High-Performance Supercapacitor Application. <i>ACS Applied Nano Materials</i> , 2021, 4, 10173-10184.	2.4	22
5019	Enhancing capacitor lifetime by alternate constant polarization. <i>Journal of Power Sources</i> , 2021, 506, 230131.	4.0	7
5020	Aqueous-based, high-density nanoporous carbon xerogels with high specific surface area for supercapacitors. <i>Journal of Porous Materials</i> , 2022, 29, 87-95.	1.3	5

#	ARTICLE	IF	CITATIONS
5021	Studies on electrochemical mechanism of nanostructured cobalt vanadate electrode material for pseudocapacitors. <i>Journal of Energy Storage</i> , 2021, 41, 102986.	3.9	17
5022	Preparation and electrochemical activity of platinum catalyst-supported graphene and Fe-based metal-organic framework composite electrodes for fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 259-267.	2.9	6
5023	Bioinspired N4-metallomacrocycles for electrocatalytic oxygen reduction reaction. <i>Coordination Chemistry Reviews</i> , 2021, 442, 213996.	9.5	57
5024	High-performance Pd nanocatalysts based on the novel N-doped Ti3C2 support for ethanol electrooxidation in alkaline media. <i>Electrochimica Acta</i> , 2021, 390, 138902.	2.6	11
5025	The differential capacitance as a probe for the electric double layer structure and the electrolyte bulk composition. <i>Journal of Chemical Physics</i> , 2021, 155, 104702.	1.2	16
5026	Sustainable synthesis, reduction and applications of graphene obtained from renewable resources. <i>Sustainable Materials and Technologies</i> , 2021, 29, e00310.	1.7	23
5027	Image processing analysis of supercapacitors with twisted fiber structures and a gel electrolyte. <i>Journal of Applied Electrochemistry</i> , 2022, 52, 139-148.	1.5	5
5028	Revealing the impacts of oxygen defects on Zn ²⁺ storage performance in V2O5. <i>Materials Today Energy</i> , 2021, 21, 100824.	2.5	29
5029	CeO2 nanorod decorated NrGO additives for boosting PEMFC performance. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32250-32260.	3.8	4
5030	Effects of Precursors and Carbon Nanotubes on Electrochemical Properties of Electrospun Nickel Oxide Nanofibers-Based Supercapacitors. <i>Molecules</i> , 2021, 26, 5656.	1.7	9
5031	Hierarchical NiCo2O4 and NiCo2S4 nanomaterials as electrocatalysts for methanol oxidation reaction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32069-32080.	3.8	25
5032	New insights into the performance of an acid-base electrochemical flow battery. <i>Journal of Power Sources</i> , 2021, 506, 230233.	4.0	7
5033	Supercapacitor devices based as SILAR synthesized ytterbium sulfide @ graphene oxide nanocomposite flexible thin film electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2021, 897, 115589.	1.9	15
5034	A systems engineering perspective on electrochemical energy technologies and a framework for application driven choice of technology. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111165.	8.2	7
5035	Current density induced growth of Li15Si4 alloy in silicon-carbon anodes during first lithiation process. <i>Journal of Energy Storage</i> , 2021, 41, 102930.	3.9	5
5036	Study of Proton Transport in Diethylmethylammonium Poly[4-styrenesulfonyl(trifluoromethylsulfonyl)imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine-Rich Compositions. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11005-11016.	1.2	2
5037	Tuning the electrochemical properties of nanostructured CoMoO4 and NiMoO4 via a facile sulfurization process for overall water splitting and supercapacitors. <i>Surface and Coatings Technology</i> , 2021, 421, 127435.	2.2	24
5038	Controllable synthesis of NiCo-LDH/Co(OH)2@PPY composite via electrodeposition at high deposition voltages for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160042.	2.8	35

#	ARTICLE	IF	CITATIONS
5039	Production of high-energy Li-ion batteries comprising silicon-containing anodes and insertion-type cathodes. <i>Nature Communications</i> , 2021, 12, 5459.	5.8	190
5040	Design principles of high-voltage aqueous supercapacitors. <i>Materials Today Energy</i> , 2021, 21, 100739.	2.5	17
5041	The flexible programming of thermodynamic cycles: Application of supercritical carbon dioxide Brayton cycles. <i>Energy Conversion and Management</i> , 2021, 245, 114624.	4.4	4
5042	On the use of surface-confined molecular catalysts in fuel cell development. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100765.	2.5	1
5043	Functional carbons for energy applications. <i>Materials Research Bulletin</i> , 2021, 142, 111425.	2.7	14
5044	Evaluation and selection of biochars and hydrochars derived from agricultural wastes for the use as adsorbent and energy storage materials. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105979.	3.3	33
5045	A safe electrolyte for high-performance lithium-ion batteries containing lithium difluoro(oxalato)borate, gamma-butyrolactone and non-flammable hydrofluoroether. <i>Electrochimica Acta</i> , 2021, 394, 139120.	2.6	9
5046	TiO ₂ nanotubes supported ultrafine MnCo ₂ O ₄ nanoparticles as a superior-performance anode for lithium-ion capacitors. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35330-35341.	3.8	8
5047	Dendrite-free zinc anode enabled by zinc-chelating chemistry. <i>Energy Storage Materials</i> , 2021, 41, 515-521.	9.5	120
5048	Insight into photoelectrocatalytic mechanisms of bifunctional cobaltite hollow-nanofibers towards oxygen evolution and oxygen reduction reactions for high-energy zinc-air batteries. <i>Electrochimica Acta</i> , 2021, 392, 139022.	2.6	18
5049	Controllable synthesis of nanosheet-induced 3D hierarchical Zn ₂ (OH) ₃ VO ₃ with gradually enhanced electrochemical performance. <i>Electrochimica Acta</i> , 2021, 394, 139109.	2.6	1
5050	A New Sodium Calcium Cyclotetranadate Framework: "Zero" Strain during Large Capacity Lithium Intercalation. <i>Advanced Functional Materials</i> , 2022, 32, 2105026.	7.8	30
5051	Insights into host materials for aqueous proton batteries: structure, mechanism and prospect. <i>Nano Energy</i> , 2021, 89, 106400.	8.2	55
5052	Pseudocapacitive and battery-type organic polymer electrodes for a 1.9 V hybrid supercapacitor with a record concentration of ammonium acetate. <i>Journal of Power Sources</i> , 2021, 511, 230434.	4.0	34
5053	Two-dimensional nanosheets constituted trimetal Ni-Co-Mn sulfide nanoflower-like structure for high-performance hybrid supercapacitors. <i>Applied Surface Science</i> , 2021, 565, 150482.	3.1	32
5054	Nitrogen [~] carbon materials base on pyrolytic graphene hydrogel for oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 274-281.	5.0	7
5055	Enhanced surface and electrochemical properties of nitrogen-doped reduced graphene oxide by violet laser treatment for high charge storage and lower self-discharge supercapacitors. <i>Journal of Power Sources</i> , 2021, 513, 230517.	4.0	14
5056	Phase-controlled growth of nickel hydroxide nanostructures on nickel foam for enhanced supercapacitor performance. <i>Journal of Energy Storage</i> , 2021, 43, 103171.	3.9	22

#	ARTICLE	IF	CITATIONS
5057	Edgeless porous carbon coating for durable and powerful lead-carbon batteries. <i>Carbon</i> , 2021, 185, 419-427.	5.4	12
5058	Reliable and precise evaluation energy-transfer and efficiency of super-capacitors. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111566.	8.2	4
5059	Solid-state phase transformation of NiO into metallic Ni via ammonia reduction reaction for hybrid supercapacitors. <i>Synthetic Metals</i> , 2021, 281, 116899.	2.1	4
5060	Conductive metal-organic frameworks for electrochemical energy conversion and storage. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214119.	9.5	70
5061	Challenges and design strategies for high performance aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2021, 42, 533-569.	9.5	74
5062	Combined step potential electrochemical spectroscopy and electrochemical impedance spectroscopy analysis of the glassy carbon electrode in an aqueous electrolyte. <i>Electrochimica Acta</i> , 2021, 396, 139220.	2.6	8
5063	Three-dimensional CoSe ₂ nanoparticles/PANI films composite via co-electrodeposition as a binder-free and a non-noble metal catalyst alternative for methanol oxidation application. <i>Materials Chemistry and Physics</i> , 2021, 273, 125118.	2.0	7
5064	Effect of different aqueous electrolytes on electrochemical behavior of LiFePO ₄ as a cathode material: Lithium ion battery and renewable energy nexus. <i>Energy Nexus</i> , 2021, 1, 100005.	3.3	8
5065	Investigations into the supercapacitor activity of bisphosphonate-polyoxovanadate compounds. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122566.	1.4	4
5066	Preparation and application of 0D-2D nanomaterial hybrid heterostructures for energy applications. <i>Materials Today Advances</i> , 2021, 12, 100169.	2.5	20
5067	Highly efficient and durable core-shell catalyst with dual functions: Tungsten nitride quantum dots encapsulated in ultra-thin graphene. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120692.	10.8	14
5068	Algal-based polysaccharides as polymer electrolytes in modern electrochemical energy conversion and storage systems: A review. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100023.	1.6	12
5069	Effect of heteroatom doping on the charge storage and operating voltage window of nickel-based sulfide composite electrodes in alkaline electrolytes. <i>Chemical Engineering Journal</i> , 2022, 427, 130885.	6.6	13
5070	Penta-Twinned Rh@Pt Core-Shell nanobranches with engineered shell thickness for reversible and active hydrogen redox electrocatalysis. <i>Chemical Engineering Journal</i> , 2022, 429, 132414.	6.6	19
5071	Recent advances in alkaline hydrogen oxidation reaction. <i>Journal of Energy Chemistry</i> , 2022, 66, 107-122.	7.1	51
5072	Single Ir atom anchored in pyrrolic-N ₄ doped graphene as a promising bifunctional electrocatalyst for the ORR/OER: a computational study. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1005-1013.	5.0	78
5073	1 T-MoSe ₂ monolayer supported single Pd atom as a highly-efficient bifunctional catalyst for ORR/OER. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 155-162.	5.0	55
5074	Ti ₃ C ₂ T MXene supported SnO ₂ quantum dots with oxygen vacancies as anode for Li-ion capacitors. <i>Chemical Engineering Journal</i> , 2022, 428, 131993.	6.6	49

#	ARTICLE	IF	CITATIONS
5075	Biomass-derived bifunctional electrocatalysts for oxygen reduction and evolution reaction: A review. <i>Journal of Energy Chemistry</i> , 2022, 65, 149-172.	7.1	66
5076	Tailoring defective vanadium pentoxide/reduced graphene oxide electrodes for all-vanadium-oxide asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 429, 132274.	6.6	48
5077	Electrode and electrolyte regulation to promote coulombic efficiency and cycling stability of aqueous zinc-iodine batteries. <i>Chemical Engineering Journal</i> , 2022, 428, 131283.	6.6	43
5078	<i>In situ</i> recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2742-2748.	3.2	1
5079	ORR/OER activity and zinc-air battery performance of various kinds of graphene-based air catalysts. <i>Materials Science for Energy Technologies</i> , 2021, 4, 1-22.	1.0	6
5080	Nitrogen-doped multi-channel carbon nanofibers incorporated with nickel nanoparticles as a multifunctional modification layer of the separator for ultra stable Li ⁺ S batteries. <i>New Journal of Chemistry</i> , 2021, 45, 9472-9477.	1.4	3
5081	Common ion effect enhanced Prussian blue analogues for aqueous ammonium ion storage. <i>Dalton Transactions</i> , 2021, 50, 6520-6527.	1.6	24
5082	Energy storage electrochromic devices in the era of intelligent automation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 14126-14145.	1.3	26
5083	A 2H-MoS ₂ /carbon cloth composite for high-performance all-solid-state supercapacitors derived from a molybdenum dithiocarbamate complex. <i>Dalton Transactions</i> , 2021, 50, 11954-11964.	1.6	3
5084	A non-flammable electrolyte for long-life lithium ion batteries operating over a wide-temperature range. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15363-15372.	5.2	23
5085	Ionotropic Gelation of Chitosan Flat Structures and Potential Applications. <i>Molecules</i> , 2021, 26, 660.	1.7	39
5086	Stress- and Interface-Compatible Red Phosphorus Anode for High-Energy and Durable Sodium-Ion Batteries. <i>ACS Energy Letters</i> , 2021, 6, 547-556.	8.8	33
5087	Pre-Sodiated Ti ₃ C ₂ T _x MXene Structure and Behavior as Electrode for Sodium-Ion Capacitors. <i>ACS Nano</i> , 2021, 15, 2994-3003.	7.3	54
5088	Chapter 5. 2D Nanomaterial-based Polymer Composite Electrolytes for Lithium-based Batteries. <i>Inorganic Materials Series</i> , 2021, , 204-274.	0.5	2
5089	Fundamentals of Capacitive Charge Storage in Carbon-Based Supercapacitors. <i>Springer Series in Materials Science</i> , 2021, , 559-586.	0.4	0
5090	Metal oxide-based electrocatalysts for low-temperature electrochemical production and oxidation of hydrogen (HER and HOR). , 2021, , 9-35.		0
5091	Mechanics in Li-Ion Batteries. , 2021, , .		1
5092	Atomic Layer Deposition of 2D Metal Dichalcogenides for Electronics, Catalysis, Energy Storage, and Beyond. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001677.	1.9	39

#	ARTICLE	IF	CITATIONS
5093	Carbon-Based Quantum Dots for Supercapacitors: Recent Advances and Future Challenges. <i>Nanomaterials</i> , 2021, 11, 91.	1.9	87
5094	Crucial Challenges and Recent Optimization Progress of Metal–Sulfur Battery Electrolytes. <i>Energy & Fuels</i> , 2021, 35, 1966-1988.	2.5	26
5095	Naphthoquinone-Based Composite Cathodes for Aqueous Rechargeable Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4084-4092.	4.0	64
5096	Development of solid electrolytes in Zn–air and Al–air batteries: from material selection to performance improvement strategies. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4415-4453.	5.2	67
5097	The synthesis of mechanically stable polybenzoxazine-based porous carbon and its application as high-performance supercapacitor electrodes. <i>New Journal of Chemistry</i> , 2021, 45, 8738-8746.	1.4	7
5098	Optimisation of sodium-based energy storage cells using pre-sodiation: a perspective on the emerging field. <i>Energy and Environmental Science</i> , 2021, 14, 1380-1401.	15.6	51
5100	Insights of Heteroatoms Doping-Enhanced Bifunctionalities on Carbon Based Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2021, 31, 2009109.	7.8	58
5101	Hierarchical Carbide-Derived Carbon Foams with Advanced Mesostructure as a Versatile Electrochemical Energy Storage Material. <i>Advanced Energy Materials</i> , 2014, 4, 1300645.	10.2	96
5102	Redox Activity of Bromides in Carbon-Based Electrochemical Capacitors. <i>Batteries and Supercaps</i> , 2020, 3, 1080-1090.	2.4	5
5103	Boosting the Supercapacitance of Nitrogen-Doped Carbon by Tuning Surface Functionalities. <i>ChemSusChem</i> , 2017, 10, 4018-4024.	3.6	38
5104	Anodic Dissolution of Al Current Collectors in Unconventional Solvents for High Voltage Electrochemical Double-Layer Capacitors. <i>ChemSusChem</i> , 2017, 10, 4178-4189.	3.6	26
5105	Fabrication of One-Dimensional Mesoporous CoP Nanorods as Anode Materials for Lithium-Ion Batteries. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3729-3735.	1.0	22
5106	Development of Hybrid Nanocomposites for Electronic Applications. , 2009, , 231-287.		4
5108	Nanoporous Metallic Foams for Energy Applications: Electrochemical Approaches for Synthesizing and Characterization. , 2020, , 1-24.		1
5109	Electrochemical Supercapacitors of Bismuth Ferrites. <i>SpringerBriefs in Materials</i> , 2020, , 69-84.	0.1	2
5110	Conductive Polymer Based Flexible Supercapacitor. <i>Engineering Materials</i> , 2020, , 211-233.	0.3	1
5111	Perspective of Nanomaterials in the Performance of Solar Cells. , 2020, , 25-54.		4
5112	Capacitor to Supercapacitor. <i>Springer Series in Materials Science</i> , 2020, , 53-89.	0.4	33

#	ARTICLE	IF	CITATIONS
5113	Introduction to Supercapacitors. Springer Series in Materials Science, 2020, , 1-28.	0.4	14
5114	Characteristics of Supercapacitors. Springer Series in Materials Science, 2020, , 71-87.	0.4	9
5116	Application of Carbon Nanotubes for Resolving Issues and Challenges on Electrochemical Capacitors. , 2015, , 415-445.		2
5117	Applications of Electrospinning in Design and Fabrication of Electrodes for Lithium-Ion Batteries. Nanostructure Science and Technology, 2014, , 69-89.	0.1	1
5118	Understanding the Energy Storage Principles of Nanomaterials in Lithium-Ion Battery. , 2019, , 61-104.		2
5119	Powering Autonomous Sensors. , 2011, , .		38
5120	Synthesis, Characterization and Applications of Graphene Quantum Dots. Advanced Structured Materials, 2017, , 65-120.	0.3	3
5121	Activated carbon from the waste water purifier for supercapacitor application. Journal of Solid State Electrochemistry, 2017, 21, 3169-3177.	1.2	16
5122	Journey from supercapacitors to supercapatteries: recent advancements in electrochemical energy storage systems. Emergent Materials, 2020, 3, 347-367.	3.2	59
5123	Effect of Fe doping on the graphitic level of Mo ₂ C/N-C for electrocatalytic water splitting. Applied Catalysis A: General, 2020, 601, 117623.	2.2	18
5124	Ultra-thick wood biochar monoliths with hierarchically porous structure from cotton rose for electrochemical capacitor electrodes. Electrochimica Acta, 2020, 352, 136452.	2.6	39
5125	Upgrading agricultural biomass for sustainable energy storage: Bioprocessing, electrochemistry, mechanism. Energy Storage Materials, 2020, 31, 274-309.	9.5	38
5126	Synthesis and Electrochemical Properties of Porous γ -Co(OH) ₂ and Co ₃ O ₄ Microspheres. Progress in Natural Science: Materials International, 2017, 27, 197-202.	1.8	47
5127	Carbon-Based Fibers for Advanced Electrochemical Energy Storage Devices. Chemical Reviews, 2020, 120, 2811-2878.	23.0	334
5128	A Discrete Chloride Monohydrate: A Solid-State Structural and Spectroscopic Characterization. Journal of Physical Chemistry A, 2020, 124, 9244-9251.	1.1	8
5129	Molecular Dynamics Simulations of Metal/Molten Alkali Carbonate Interfaces. Journal of Physical Chemistry C, 2017, 121, 17827-17847.	1.5	13
5130	Toward pH Independent Oxygen Reduction Reaction by Polydopamine Derived 3D Interconnected, Iron Carbide Embedded Graphitic Carbon. ACS Applied Materials & Interfaces, 2021, 13, 8147-8158.	4.0	15
5131	Chapter 4. Ionic Liquid Electrolytes for Graphene-based Supercapacitors with an Ultrahigh Energy Density. RSC Smart Materials, 2019, , 95-128.	0.1	2

#	ARTICLE	IF	CITATIONS
5132	Self-stacked multilayer FeOCl supported on a cellulose-derived carbon aerogel: a new and high-performance anode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9556-9564.	5.2	52
5133	Recent progress in integrated functional electrochromic energy storage devices. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15507-15525.	2.7	68
5134	Hydrothermal two-dimensionalisation to porous ZnCo ₂ O ₄ nanosheets non-platinum ORR catalyst. <i>Micro and Nano Letters</i> , 2019, 14, 665-668.	0.6	2
5135	Polyaniline-Manganese dioxide nanorods nanocomposite as an electrode material for supercapacitors. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	7
5136	A semi-GCMC simulation study of electrolytic capacitors with adsorbed titrating peptides. <i>Journal of Chemical Physics</i> , 2020, 153, 174703.	1.2	3
5137	Emerging miniaturized energy storage devices for microsystem applications: from design to integration. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 042001.	6.3	96
5138	Direct determination of one-dimensional interphase structures using normalized crystal truncation rod analysis. <i>Journal of Applied Crystallography</i> , 2018, 51, 679-684.	1.9	6
5139	Conductivity and Electrochemical Behavior of Plasticized Polymer Electrolyte for Dye-Sensitized Solar Cell Integrated Supercapacitor. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020, 17, .	1.1	1
5140	A Non-Flammable Electrolyte for Lithium-Ion Batteries Containing Lithium Difluoro(oxalato)borate, Propylene Carbonate and Tris(2,2,2-Trifluoroethyl)Phosphate. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080524.	1.3	9
5141	Performance of Electrochemically Synthesized Nickel-Zinc and Nickel-Iron (Ni-Zn//Ni-Fe) Nanowires as Battery Type Supercapacitor. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120527.	1.3	40
5142	Editors' Choice Mechanistic Elucidation of Anion Intercalation into Graphite from Binary-Mixed Highly Concentrated Electrolytes via Complementary ¹⁹ F MAS NMR and XRD Studies. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140526.	1.3	31
5143	Electrochemical Cell and Thermodynamics. , 2014, , 11-40.		1
5144	Photovoltaics and Nanotechnology: From Innovation to Industry. , 2014, , 37-58.		2
5145	Ordered mesoporous carbon-supported nano-platinum catalysts: application in direct methanol fuel cells. <i>Sustainable Energy Developments</i> , 2015, , 131-157.	0.3	1
5146	High Energy Density Germanium Anodes for Next Generation Lithium Ion Batteries. <i>Applied Chemistry for Engineering</i> , 2014, 25, 1-13.	0.2	14
5147	Electrospun Metal Oxide/Carbon Nanofiber Composite Electrode for Supercapacitor Application. <i>Applied Chemistry for Engineering</i> , 2015, 26, 239-246.	0.2	3
5148	Synthesis of Graphene Oxide/Polypyrrole (GO/PPy) from Used Batteries as Electrodes in Supercapacitor Cells. <i>Jurnal Kimia Valensi</i> , 2019, 5, 194-201.	0.1	1
5149	An Overview on the Development of Electrochemical Capacitors and Batteries – part II. <i>Anais Da Academia Brasileira De Ciencias</i> , 2020, 92, e20200800.	0.3	3

#	ARTICLE	IF	CITATIONS
5150	TAM ELEKTRİKLERİN ARAŞTIRILMASI VE ZEMİN BİR ENERJİ YANETİM SİSTEMİ UYGULAMASI. Journal of the Faculty of Engineering and Architecture of Gazi University, 2017, 32, .	0.3	6
5151	Transition Metal Doped Solid Oxide Fuel Cell Cathodes. Journal of the Turkish Chemical Society, Section A: Chemistry, 0, , 1153-1168.	0.4	2
5152	Highly Enhanced Electrochemical Performance of Novel based Electrode Materials for Supercapacitor Applications – An Overview. International Journal of Electrochemical Science, 2019, 14, 1634-1648.	0.5	5
5153	Electrochromic and Electrochemical Energy Storage Properties of Micro-nano Hierarchical NiO film. International Journal of Electrochemical Science, 2019, 14, 7401-7409.	0.5	6
5154	Three-Dimensional Porous LiFePO ₄ : Design, Architectures and High Performance for Lithium Ion Batteries. Current Inorganic Chemistry, 2012, 2, 194-212.	0.2	39
5155	Conducting Polymers and their Applications. Current Physical Chemistry, 2012, 2, 224-240.	0.1	112
5156	Diethylenetriamine-assisted one-step hydrothermal synthesis of cotton-like CoS cluster for high-performance supercapacitor. Materials Science-Poland, 2018, 36, 297-303.	0.4	5
5157	Innovations in energy storage. Power Engineering Research Equipment Technology, 2019, 21, 33-40.	0.1	4
5158	Synthesis and Electrochemical Characteristics of Spherical Li ₄ Ti ₅ O ₁₂ /CNT Composite Materials for Hybrid Capacitors. Journal of Electrochemical Science and Technology, 2015, 6, 59-64.	0.9	3
5159	Bagasse-based Nanoporous Carbon for Supercapacitor Application. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 107-113.	0.6	24
5160	INVESTIGATION ON THE CAPACITY GETRAGATION OF POLYPYRROLR ELECTRODE AS SUPERCAPACITOR. Acta Polymerica Sinica, 2012, 012, 410-417.	0.0	2
5161	Methanol Electro-Oxidation of Electro-Spun RuO ₂ Nanowire Supported Pt Catalysts. Korean Journal of Materials Research, 2011, 21, 419-424.	0.1	5
5162	Pt Electrocatalysts Compositated on Electro-Spun Pt Nanowires for Direct Methanol Fuel Cells. Korean Journal of Materials Research, 2012, 22, 421-425.	0.1	5
5163	High-performance asymmetric supercapacitor made of NiMoO ₄ nanorods@Co ₃ O ₄ on a cellulose-based carbon aerogel. Beilstein Journal of Nanotechnology, 2020, 11, 240-251.	1.5	17
5164	Síntesis, caracterización y evaluación eléctrica de circonatos de bario dopados con lantánidos trivalentes. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2014, 53, 60-68.	0.9	1
5166	Lignocellulosic-Based Activated Carbon Prepared by a Chemical Impregnation Method as Electrode Materials for Double Layer Capacitor. Advances in Chemical Engineering and Science, 2017, 07, 175-190.	0.2	3
5167	Functionalization of Polypropylene with High Dielectric Properties: Applications in Electric Energy Storage. Green and Sustainable Chemistry, 2012, 02, 29-37.	0.8	75
5168	Forecast of the Luminescent Phenomena of Silicon Rich Oxide Films off Stoichiometry by Means of the Global Reaction Model. Journal of Modern Physics, 2015, 06, 1679-1694.	0.3	1

#	ARTICLE	IF	CITATIONS
5169	Fabrication and Capacitance of Co ₃ O ₄ -Graphene Nanocomposites Electrode Prepared by Pulse Microwave-assisted Reduction Methods. Bulletin of the Korean Chemical Society, 2012, 33, 4247-4250.	1.0	15
5170	Performance Enhancement by Adaptation of Long Term Chronoamperometry in Direct Formic Acid Fuel Cell using Palladium Anode Catalyst. Bulletin of the Korean Chemical Society, 2012, 33, 2539-2545.	1.0	6
5171	Electrochemical Performance of Activated Carbons/Mn ₃ O ₄ -Carbon Blacks for Supercapacitor Electrodes. Bulletin of the Korean Chemical Society, 2013, 34, 2343-2347.	1.0	11
5172	Synthesis and Electrochemical Characteristics of Spherical Li ₄ Ti ₅ O ₁₂ /CNT Composite Materials for Hybrid Capacitors. Journal of Electrochemical Science and Technology, 2015, 6, 59-64.	0.9	7
5173	Effects of carbonization temperature on pore development in polyacrylonitrile-based activated carbon nanofibers. Carbon Letters, 2014, 15, 146-150.	3.3	25
5175	Capacitive Behavior of Manganese Dioxide/Stainless Steel Electrodes at Different Deposition Currents. American Journal of Materials Science, 2012, 2, 11-14.	2.0	32
5177	Silane-crosslinked Proton Exchange Membranes Prepared by a Stepwise Radiation Grafting. Porrima, 2012, 36, 816-821.	0.0	2
5178	Carbon-based single atom catalysts for tailoring the ORR pathway: a concise review. Journal of Materials Chemistry A, 2021, 9, 24803-24829.	5.2	60
5179	Hydrothermal synthesis of MnO ₂ @graphene/activated carbon composite electrode with enhanced electrochemical performance for supercapacitor applications. International Journal of Innovative Research in Physics, 2021, 3, 1-10.	0.1	0
5180	Conductive two-dimensional M ₃ (C ₆ S ₃ O ₃) ₂ monolayers as effective electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2021, 9, 24887-24894.	5.2	20
5181	A review on MXenes: new-generation 2D materials for supercapacitors. Sustainable Energy and Fuels, 2021, 5, 5672-5693.	2.5	55
5182	Interfacial Assembly and Applications of Functional Mesoporous Materials. Chemical Reviews, 2021, 121, 14349-14429.	23.0	151
5183	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. Advanced Functional Materials, 2022, 32, 2108107.	7.8	90
5184	Study of CNT Intercalated Bi ₂ O ₃ /PVDF Composite for Super Capacitors Applications. Macromolecular Symposia, 2021, 399, 2100022.	0.4	5
5185	Porous Ultrathin W-Doped VO ₂ Nanosheets Enable Boosted Zn ²⁺ (De)Intercalation Kinetics in VO ₂ for High-Performance Aqueous Zn-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 14193-14201.	3.2	38
5187	Bamboo-Based Mesoporous Activated Carbon for High-Power-Density Electric Double-Layer Capacitors. Nanomaterials, 2021, 11, 2750.	1.9	11
5188	Flowerlike Fe ₂ O ₃ @polyaniline nanocomposite as electrode for supercapacitor. Journal of Materials Science: Materials in Electronics, 2021, 32, 27794-27800.	1.1	8
5189	Design and preparation of NiCoS nanostructures on Ni foam for high-performance asymmetric supercapacitor application. Journal of Materials Science: Materials in Electronics, 2022, 33, 9256-9268.	1.1	6

#	ARTICLE	IF	CITATIONS
5191	Supramolecular Viologen-Cyclodextrin Electrolytes for Aqueous Organic Redox Flow Batteries. ACS Applied Energy Materials, 2021, 4, 12353-12364.	2.5	11
5192	Impact of Cl substitution on the structural, morphological, dielectric, and electrical properties of MgCo ₂ O ₄ nanoparticles synthesized via solid-state reaction route. Results in Surfaces and Interfaces, 2021, 5, 10.	1.0	0
5193	Corrosion processes in battery systems based on non-aqueous electrolytes (a review). Voprosy Khimii i Khimicheskoi Tekhnologii, 2021, , 3-20.	0.1	1
5194	High performance aqueous Li-ion capacitors with palladium nanoparticle/graphene composite anode and activated carbon cathode employing safe and environmentally friendly electrolytes. Ionics, 2022, 28, 443-450.	1.2	0
5195	MoO ₃ @ZnO Nanocomposite as an Efficient Anode Material for Supercapacitors: A Cost Effective Synthesis Approach. Energy & Fuels, 2021, 35, 16850-16859.	2.5	19
5196	Inflating strategy to fabricate highly dispersed Fe, N co-doped hierarchically porous carbon for ORR and supercapacitor. Journal of Materials Science: Materials in Electronics, 2021, 32, 26341-26350.	1.1	1
5197	Poly (methyl vinyl ether-alt-maleic anhydride) as an ecofriendly electrolyte additive for high-voltage lithium-rich oxides with improved stability of interphase. Electrochimica Acta, 2021, 400, 139467.	2.6	4
5198	Simple Liquid-Phase Synthesis of Cobalt Carbide (Co ₂ C) Nanoparticles and Their Use as Durable Electrocatalysts. Materials Transactions, 2021, 62, 1632-1638.	0.4	1
5199	A review of recent advances in manganese-based supercapacitors. Journal of Energy Storage, 2021, 44, 103322.	3.9	56
5200	A subtle functional design of hollow CoP@MoS ₂ hetero-nanoframes with excellent hydrogen evolution performance. Materials and Design, 2021, 211, 110165.	3.3	10
5201	Polymer Electrolyte Fuel Cell (PEFC) for Future Energy Technology. Hyomen Kagaku, 2005, 26, 362-366.	0.0	1
5203	Materials for Proton Exchange Membrane Fuel Cells. , 2007, , 251-309.		1
5204	Next-Generation Hybrid Nanocomposite Materials Based on Conducting Organic Polymers: Energy Storage and Conversion Devices. , 2009, , 289-319.		3
5205	Electrodics in Electrochemical Energy Conversion Systems: A Mesoscopic Formalism. , 2011, , 217-258.		0
5207	Corrosion and Surface Resistance of Ni-C Composite by Electrodeposition. Korean Journal of Materials Research, 2011, 21, 288-294.	0.1	0
5208	Hierarchically Nanostructured Electrode Materials for Lithium-Ion Batteries. , 2011, , 237-266.		0
5210	Computational Modeling of Charge-Discharge Characteristics of Lithium-Ion Batteries. Journal of Energy Engineering, 2011, 20, 278-285.	0.2	5
5211	Fuel Cell fuel cell Comparison to Alternate Technologies fuel cell comparison to alternate technologies. , 2012, , 3847-3860.		1

#	ARTICLE	IF	CITATIONS
5212	Komponenten des Hybridantriebs. , 2012, , 75-299.		2
5215	Battery Components, Active Materials for. , 2012, , 739-768.		0
5216	Effect of Vinyl Ethylene Carbonate on Electrochemical Characteristics for Activated Carbon/Li4Ti5O12Capacitors. Journal of the Korean Electrochemical Society, 2012, 15, 190-197.	0.1	0
5217	Evaluation of Corrosion and Surface Resistance of Ni-Px/C Multi Layer. Journal of the Korean Institute of Surface Engineering, 2012, 45, 162-167.	0.1	0
5218	Evaluation Modeling Heat Generation Behavior for Lithium-ion Battery Using FEMLAB. Clean Technology, 2012, 18, 320-324.	0.1	0
5219	A Study on the H3PO4-Treated Soft Carbon as Anode Materials for Lithium Ion Batteries. Journal of the Korean Electrochemical Society, 2012, 15, 207-215.	0.1	5
5220	Synthesis and Characterization of a Series of PtRu/C Catalysts for the Electrooxidation of CO. Clean Technology, 2012, 18, 432-439.	0.1	0
5222	Electrochemical Capacitance Performance of One-dimensional Nano- $\text{Co}(\text{OH})_2$ Employing Cobalt-cholate Supramolecular Nanofibers Self-template Method. Wujì Cailiao Xuebao/Journal of Inorganic Materials, 2013, 28, 739-744.	0.6	0
5223	Surface Characterization of Graphene. , 2013, , 73-90.		0
5224	Non-Aqueous Electrolyte Solutions. , 2014, , 1371-1375.		0
5225	Powering Autonomous Sensors. , 2014, , 1-11.		0
5226	Fuel Cell Technology and Materials. , 2014, , 57-71.		0
5227	Binder-Free Nanotube Electrodes for High Energy and Power Density 3D Li-Ion Microbatteries. ECS Meeting Abstracts, 2014, , .	0.0	0
5228	Photovoltaics and Nanotechnology: From Innovation to Industry. , 2014, , 52-73.		0
5229	A Novel Battery System for Electric Vehicles. , 2015, , 29-40.		1
5230	Functional Nanofibers for Energy Storage. , 2015, , 513-547.		0
5231	Functional Nanofibers for Energy Storage. , 2015, , 1-28.		0
5232	Construction of Nickel Oxide/Nitrogen-doped Carbon Nanotubes Catalysts with High Activity for Oxygen Reduction Reaction. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
5233	Methanol Electro-Oxidation Properties of Pt Electro-Catalysts Embedded by Porous Carbon Nanofiber Supports. Korean Journal of Materials Research, 2015, 25, 113-118.	0.1	3
5234	The Hydrogen Alternative. International Letters of Chemistry, Physics and Astronomy, 0, 49, 15-26.	0.0	2
5235	Enhanced electrochemical performance of PEDOT film incorporating PEDOT:PSS. , 2016, , .		0
5236	Basic Elements for Energy Storage and Conversion. , 2016, , 1-27.		1
5237	Synthesis of the spinel LiNi _{0.5} Mn _{1.5} O ₄ as 5V cathode material by carbonate co-precipitation method. , 2016, , .		0
5238	Electronic and Optoelectronic Materials and Device Innovations. , 2016, , 1-38.		0
5240	CHAPTER 10. Polymer-Halloysite Composite Membranes for Ultrafiltration and Proton Exchange Applications. RSC Smart Materials, 2016, , 271-300.	0.1	0
5241	Construction of Cobalt Oxide/Nitrogen-Doped Carbon Nanotubes with High Activity for Oxygen Reduction Reaction. , 2016, , .		0
5242	Improved Properties of Li ₄ Ti ₅ O ₂ (LTO) by Surface Modification with Carbon Nanotube (CNT). Journal of the Korean Institute of Surface Engineering, 2016, 49, 191-195.	0.1	1
5243	Graphene 3D Architectures. , 2016, , 495-588.		0
5244	Polymer/Graphene Composites for Energy Storage. Engineering Materials and Processes, 2017, , 337-364.	0.2	0
5245	Fuel Cell Comparison to Alternate Technologies. , 2017, , 1-16.		0
5246	Tailoring Performance of Polymer Electrolytes Through Formulation Design. Engineering Materials and Processes, 2017, , 481-510.	0.2	0
5247	Advanced Materials for Supercapacitors. , 2017, , 99-128.		1
5248	Silicon nanowires for Li-based battery anode applications. , 2017, , 455-474.		0
5249	Silicon nanowires for Li-based battery anode applications. Series in Materials Science and Engineering, 2017, , 455-474.	0.1	0
5250	Measuring and Testing the Parameters of a Battery Pack Designed for Powering Unmanned Aircraft Systems at Various Temperatures. Transactions of the Institute of Aviation, 2017, 2017, 46-62.	0.3	1
5252	Elementary acts of the reaction of molecular oxygen recovery over nitrogen-doped sp ² -carbon cluster: quantum chemical study. Surface, 2017, 9(24), 14-27.	0.4	0

#	ARTICLE	IF	CITATIONS
5253	Adsorption behavior of activated charcoal and used battery cell carbon as composite for removal of cadmium ion from aqueous solution. <i>Journal of Applied and Natural Science</i> , 2018, 10, 608-613.	0.2	0
5254	Fuel Cell Comparison to Alternate Technologies. , 2019, , 11-25.		0
5255	Electrochemical and Spectroscopic Studies of Nanocomposites Laden with BaTiO ₃ -grafted-graphene Oxide. <i>International Journal of Scientific Research in Science and Technology</i> , 2018, , 319-327.	0.1	0
5256	Nanopolysaccharides in Energy Storage Applications. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 137-169.	0.7	2
5257	Hybrid Supercapacitor-Battery Energy Storage. , 2019, , 1-39.		0
5258	Influence of Cationic, Anionic, and Nonionic Surfactants on Hydrothermal Synthesis of Nano CuS: Structural, Morphological, and Capacitance Behavior. , 2019, , 191-212.		0
5259	Proton conductive polymer and hybrid polymer-inorganic membranes. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2019, 10, 38-47.	0.2	0
5260	Dynamic Transmission Control of Power Converter-Based Renewable Sources and Energy Storage for Temporary Frequency Support. , 2019, , .		1
5261	Synthesis of tetrakis (4-(2-phenylprop-2-yl) phenoxy) substituted phthalocyanines using a new practical method. <i>International Journal of Chemistry and Technology</i> , 0, , .	0.8	0
5262	Electrodeposition of manganese-nickel oxide films for supercapacitor applications. <i>Voprosy Khimii i Khimicheskoi Tekhnologii</i> , 2019, , 144-148.	0.1	1
5264	Polymer Electrolyte Membranes Consisting of PVA- <i>g</i> -POEM Graft Copolymers for Supercapacitors. <i>Membrane Journal</i> , 2019, 29, 323-328.	0.2	0
5265	ZnO/rGO Nanocomposite for Supercapacitor Energy Storage Applications. <i>Green Energy and Technology</i> , 2020, , 565-577.	0.4	0
5267	Ä°ndirgenmiÅŸ Grafen Oksit/ÄŸinko Oksit Kompozitlerin Ä°zeretimi ve SÄ¼per KapasitÄ¼r UygulamalarÄ±. <i>Bilecik Ä°zmir EdebalÄ± Ä°niversitesi Fen Bilimleri Dergisi</i> , 2020, 7, 201-210.	0.1	0
5268	An Efficient Bifunctional Electrocatalyst of Phosphorous Carbon Co-doped MOFs. <i>Nanoscale Research Letters</i> , 2020, 15, 169.	3.1	3
5269	DissolutionÄ°Redeposition Mechanism of the MnO ₂ Cathode in Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 12267-12274.	2.5	39
5270	In-situ electrodeposition of bimetal Ni-Co selenides for high performance asymmetric supercapacitor. <i>Journal of Physics: Conference Series</i> , 2021, 2044, 012049.	0.3	2
5271	Recent advances in structural engineering of 2D hexagonal boron nitride electrocatalysts. <i>Nano Energy</i> , 2022, 91, 106661.	8.2	49
5272	Ultrasound-Assisted Preparation Methods of Nanoparticles for Energy-Related Applications. , 0, , .		3

#	ARTICLE	IF	CITATIONS
5273	Progress and challenges on the thermal management of electrochemical energy conversion and storage technologies: Fuel cells, electrolyzers, and supercapacitors. <i>Progress in Energy and Combustion Science</i> , 2022, 88, 100966.	15.8	108
5274	Towards separator-free structural composite supercapacitors. <i>Composites Science and Technology</i> , 2022, 217, 109126.	3.8	17
5275	Influence of pressure and temperature on the electrolyte filling of lithium-ion cells: Experiment, model and method. <i>Journal of Power Sources</i> , 2022, 517, 230668.	4.0	20
5276	PBA composites and their derivatives in energy and environmental applications. <i>Coordination Chemistry Reviews</i> , 2022, 451, 214260.	9.5	80
5277	Preparation and characterization of zinc-aluminum layered double hydroxide/graphene nanosheets composite for supercapacitor electrode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 136, 115005.	1.3	4
5278	Facile One-Step Microwave-Assisted Method to Synthesize Nickel Selenide Nanosheets for High-Performance Hybrid Supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1005-1014.	5.0	43
5279	Self-assembling of interconnected strips of CoMoO ₄ on graphene sheet as supercapacitor electrodes. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
5280	Energy exchange modeling of supercapacitors for E-mobility applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
5281	Hybrid Supercapacitor-Battery Energy Storage. , 2020, , 1259-1296.		2
5282	Synthesis and Applications of Graphene Quantum Dots. <i>RSC Smart Materials</i> , 2020, , 131-173.	0.1	0
5283	Nanoporous Activated Carbon and Multi-walled Carbon Nanotubes from Renewable Botanical Hydrocarbons and their Impact on Efficiency of Supercapacitor Performance. <i>Journal of Environmental Nanotechnology</i> , 2020, 9, 01-04.	0.1	1
5284	Anodised aluminum oxide [AAO] template based synthesis of curved CdS nanobelts. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
5285	Fiber Supercapacitors. , 2020, , 161-194.		0
5286	Recent Advances on Metal Organic Frameworks and Its Derivatives as Efficient Electrodes for Electrochemical Energy Storage. , 2020, , .		0
5287	Catechol-containing Polymers for Electrochemical Energy Storage. <i>RSC Polymer Chemistry Series</i> , 2020, , 245-287.	0.1	0
5288	Interface of Hydrated Perfluorosulfonic Acid Electrolyte with a Platinum Catalyst: Structural Analyses with Dissipative Particle Dynamics Simulations. <i>Journal of the Electrochemical Society</i> , 2020, 167, 064513.	1.3	0
5289	Electrospun flexible lignin/polyacrylonitrile-based carbon nanofiber and its application in electrode materials for supercapacitors. <i>Textile Research Journal</i> , 2022, 92, 456-466.	1.1	10
5290	Investigation of the morphological, optical and electrochemical capabilities of V ₂ O ₅ /MWCNT nanoparticles synthesized using a microwave autoclave technique. <i>Jcis Open</i> , 2021, 4, 100032.	1.5	10

#	ARTICLE	IF	CITATIONS
5291	Catalytic performance of nanostructured materials recently used for developing fuel cellsâ€™ electrodes. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39315-39368.	3.8	20
5292	H2O2-assisted structural transformation of Mn3O4 nanoparticles to nanorods for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9334-9346.	1.1	1
5293	Significance of Hydrogen as Economic and Environmentally Friendly Fuel. <i>Energies</i> , 2021, 14, 7389.	1.6	93
5294	Recent advances in metal organic framework (MOF) as electrode material for super capacitor: A mini review. <i>Journal of Energy Storage</i> , 2022, 47, 103530.	3.9	25
5295	Physical Properties and Associated Applications of Conducting Polymers. , 2008, , 47-87.		0
5296	Characterization of lithium ion supercapacitors. , 2020, , .		1
5298	Manganese Dioxide (MnO2): A High-Performance Energy Material for Electrochemical Energy Storage Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 91-119.	0.3	1
5299	SR Applications for Fuel Cell Electrodes. <i>Synchrotron Radiation News</i> , 2020, 33, 27-33.	0.2	0
5300	Atomic and molecular layer deposition in pursuing better batteries. <i>Journal of Materials Research</i> , 0, , 1-24.	1.2	1
5301	Past, present, and future of electrochemical energy storage: A brief perspective. <i>Frontiers of Nanoscience</i> , 2021, , 1-28.	0.3	2
5302	Sr- and Fe-substituted LaMnO3 Perovskite: Fundamental insight and possible use in asymmetric hybrid supercapacitor. <i>Energy Storage Materials</i> , 2022, 45, 119-129.	9.5	44
5303	Advanced Semiconductor/Conductor Materials. , 2022, , 557-596.		3
5304	Additively manufactured electrodes for supercapacitors: A review. <i>Applied Materials Today</i> , 2022, 26, 101220.	2.3	9
5305	Perspectives and challenges for lead-free energy-storage multilayer ceramic capacitors. <i>Journal of Advanced Ceramics</i> , 2021, 10, 1153-1193.	8.9	91
5306	Emergence of Novel 2D Materials for High-Performance Supercapacitor Electrode Applications: A Brief Review. <i>Energy & Fuels</i> , 2021, 35, 19881-19900.	2.5	72
5307	Ladder-type Î€-conjugated metallophthalocyanine covalent organic frameworks with boosted oxygen reduction reaction activity and durability for zinc-air batteries. <i>Chemical Engineering Journal</i> , 2022, 435, 133872.	6.6	25
5308	â€œPorous and Yet Denseâ€•Electrodes for Highâ€•Volumetricâ€•Performance Electrochemical Capacitors: Principles, Advances, and Challenges. <i>Advanced Science</i> , 2022, 9, e2103953.	5.6	9
5309	An overview of supercapacitors electrode materials based on metal organic frameworks and future perspectives. <i>International Journal of Energy Research</i> , 2022, 46, 3939-3982.	2.2	8

#	ARTICLE	IF	CITATIONS
5311	<i>In Situ</i> Wet Synthesis of N-ZnO/N-rGO Nanohybrids as an Electrode Material for High-Performance Supercapacitors and Simultaneous Nonenzymatic Electrochemical Sensing of Ascorbic Acid, Dopamine, and Uric Acid at Their Interface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24837-24848.	1.5	13
5312	An overview on the use of metal vanadium oxides and vanadates in supercapacitors and rechargeable batteries. <i>International Journal of Energy Research</i> , 2022, 46, 3983-4000.	2.2	12
5313	An approach for quantum capacitance of graphene, carbon nanotube, silicene and hexagonal boron nitride nanoscale supercapacitors by non-equilibrium Green's function method. <i>FlatChem</i> , 2022, 31, 100313.	2.8	1
5314	Review "Pseudocapacitive Energy Storage Materials from H ₂ g-Phase Compounds to High-Entropy Ceramics. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120521.	1.3	12
5315	Metal-organic framework-derived Mn ₃ O ₄ nanostructure on reduced graphene oxide as high-performance supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162640.	2.8	25
5316	Conducting polymer hydrogel based electrode materials for supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 45, 103510.	3.9	70
5317	Recent developments in electrode materials for dual-ion batteries: Potential alternatives to conventional batteries. <i>Materials Today</i> , 2022, 52, 269-298.	8.3	60
5318	Effects of carbon nanomaterials and MXene addition on the performance of nitrogen doped MnO ₂ based supercapacitors. <i>Ceramics International</i> , 2022, 48, 7253-7260.	2.3	40
5319	High-Efficiency Electrocatalyst Phthalocyanine in Li/SOCl ₂ Batteries: From Experimental to Theoretical Investigation. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120505.	1.3	4
5320	The production and electrochemical properties of N-doped porous carbon structure-based supercapacitor coin cells and flexible wristbands. <i>Journal of Energy Storage</i> , 2022, 48, 103698.	3.9	9
5321	Material Nanoarchitectonics of Functional Polymers and Inorganic Nanomaterials for Smart Supercapacitors. <i>Small</i> , 2022, 18, e2102397.	5.2	22
5322	Viologens: a versatile organic molecule for energy storage applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27215-27233.	5.2	38
5323	Lithium sulfur batteries: Electrochemistry and mechanistic research. , 2021, , .		0
5325	An asymmetric supercapacitor based on controllable WO ₃ nanorod bundle and alfa-derived porous carbon. <i>RSC Advances</i> , 2021, 11, 37631-37642.	1.7	27
5326	Chapter 6. Applications of Metal-Organic Framework/Polymer Hybrid Materials. <i>RSC Smart Materials</i> , 2021, , 142-225.	0.1	0
5327	Precisely controlled synthesis of Co/N species containing porous carbon for oxygen reduction reaction <i>via</i> anion exchange and CO ₂ activation. <i>New Journal of Chemistry</i> , 2022, 46, 2038-2043.	1.4	1
5328	Review "Metal-Organic Framework-Based Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2022, 169, 010516.	1.3	8
5329	Ge _{1/4} n _{1/4} m _{1/4} ze Batarya Teknolojisi. <i>European Journal of Science and Technology</i> , 0, , .	0.5	1

#	ARTICLE	IF	CITATIONS
5330	Ion-pore size match effects and high-performance cucurbit[8]uril-carbon-based supercapacitors. <i>Electrochimica Acta</i> , 2022, 405, 139827.	2.6	9
5331	Development of carbon-based copper sulfide nanocomposites for high energy supercapacitor applications: A comprehensive review. <i>Journal of Energy Storage</i> , 2022, 46, 103886.	3.9	26
5332	Three-dimensional porous aerogel assembly from ultrathin rGO@SnO ₂ nanosheets for advanced lithium-ion batteries. <i>Composites Part B: Engineering</i> , 2022, 231, 109591.	5.9	15
5333	Regulating the electro-deposition behavior of Fe metal anode and the applications in rechargeable aqueous iron-iodine batteries. <i>Chemical Engineering Journal</i> , 2022, 432, 134389.	6.6	12
5334	Sol-gel assisted morphology and phase dependent electrochemical performance of BiPO ₄ nanostructures for energy storage applications. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163315.	2.8	10
5335	Polysaccharides in fabrication of membranes: A review. <i>Carbohydrate Polymers</i> , 2022, 281, 119041.	5.1	47
5336	Pyrazine-based organic electrode material for high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 48, 103953.	3.9	10
5337	Achievement of a novel organometallic electrocatalyst based on nickel and poly para-aminophenol with excellent oxygen reduction reaction activity: Promoting the commercialization of low temperature fuel cells. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101988.	1.7	2
5338	Energy Management of Dual Energy Storage System with Average Current Mode Control for EV Applications. , 2020, , .		4
5339	Evaluation of a cell balancing circuit for a new type of high-power density energy storage system. , 2020, , .		2
5340	Modelling of an electrochemical double layer capacitor using cyclic voltammetry. , 2021, , .		1
5341	Advanced characterization techniques for electrochemical capacitors. <i>Advances in Inorganic Chemistry</i> , 2022, , 151-207.	0.4	2
5342	Effect of different anode electrodes with Li(Li _{0.25} Co _{0.37} Mn _{0.38})O ₂ as cathode material on Li: ion battery performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3901-3913.	1.1	0
5343	Recycling and valorization of LDPE: direct transformation into highly ordered doped-carbon materials and their application as electro-catalysts for the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 0, , .	2.1	3
5344	Revisiting catalytic performance of supported metal dimers for oxygen reduction reaction via magnetic coupling from first principles. , 2022, 1, 100031.		31
5345	Synergistic Effect of Hexagonal Boron Nitride-Coated Separators and Multi-Walled Carbon Nanotube Anodes for Thermally Stable Lithium-Ion Batteries. <i>Crystals</i> , 2022, 12, 125.	1.0	7
5346	Outer-coordination sphere in multi-H ⁺ /multi-e ⁻ molecular electrocatalysis. <i>IScience</i> , 2022, 25, 103628.	1.9	8
5347	Strong metal-support interaction in copper hexacyanoferrate nanocube decorated functionalized multiwall carbon nanotubes for enhanced bi-functional oxygen electrocatalytic activity and stability. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1094-1107.	2.5	9

#	ARTICLE	IF	CITATIONS
5348	Fabrication and characterizations of hybrid materials based on polyaniline, metal oxide, and graphene nano-platelets for supercapacitor electrodes. <i>Inorganic Chemistry Communication</i> , 2022, 137, 109201.	1.8	14
5349	Graphitic carbon nitride for supercapacitor. , 2022, , 301-340.		0
5350	Modified Metal-Organic Frameworks for Electrochemical Applications. <i>Small Structures</i> , 2022, 3, .	6.9	20
5351	State of the Art of Lithium-Ion Pouch Cells in Automotive Applications: Cell Teardown and Characterization. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030515.	1.3	26
5352	Perspectives on Working Voltage of Aqueous Supercapacitors. <i>Small</i> , 2022, 18, e2106360.	5.2	93
5353	Application of Microbes in Synthesis of Electrode Materials for Supercapacitors. <i>Environmental and Microbial Biotechnology</i> , 2022, , 39-92.	0.4	3
5354	Probing the Catalytically Active Region in a Nanoporous Gold Gas Diffusion Electrode for Highly Selective Carbon Dioxide Reduction. <i>ACS Energy Letters</i> , 2022, 7, 871-879.	8.8	20
5355	A comparative study of bioelectrochemical systems with established anaerobic/aerobic processes. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	4
5356	Understanding the structural dynamics of electrocatalysts via liquid cell transmission electron microscopy. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100936.	2.5	7
5357	Synthesis, Characterization, and Supercapacitor Performance of a Mixed-Phase Mn-Doped MoS ₂ Nanoflower. <i>Nanomaterials</i> , 2022, 12, 490.	1.9	22
5358	Charging dynamics of electrical double layers inside a cylindrical pore: predicting the effects of arbitrary pore size. <i>Soft Matter</i> , 2021, 18, 198-213.	1.2	26
5359	Fundamentals, basic components and performance evaluation of energy storage and conversion devices. , 2022, , 51-74.		0
5360	Preparation of Electrochemical Supercapacitor Based on Polypyrrole/Gum Arabic Composites. <i>Polymers</i> , 2022, 14, 242.	2.0	14
5361	Recent advances and fundamentals of Pseudocapacitors: Materials, mechanism, and its understanding. <i>Journal of Energy Storage</i> , 2022, 45, 103654.	3.9	81
5362	Morphology evolution and electrochemical behavior of Ni _x Mn _{1-x} (OH) ₂ mixed hydroxides as high-performance electrode for supercapacitor. <i>Electrochimica Acta</i> , 2022, 403, 139692.	2.6	5
5363	The oxygen reduction activity on platinum-decorated nitrogen-doped bilayer graphene. <i>Journal of Materials Science</i> , 2022, 57, 2794-2802.	1.7	4
5364	3D Porous MXene (Ti ₃ C ₂ T _x) Prepared by Alkaline-Induced Flocculation for Supercapacitor Electrodes. <i>Materials</i> , 2022, 15, 925.	1.3	6
5365	Tin oxide based nanostructured materials: synthesis and potential applications. <i>Nanoscale</i> , 2022, 14, 1566-1605.	2.8	67

#	ARTICLE	IF	CITATIONS
5366	Cellulose Nanocrystals in Sustainable Energy Systems. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	15
5367	Recent advances on fiber-reinforced multifunctional composites for structural supercapacitors. <i>Functional Composites and Structures</i> , 2022, 4, 012001.	1.6	13
5368	Preparation of titanium nitride/oxynitride nanotube array via ammonia-free PECVD method for enhancing supercapacitor performance. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163895.	2.8	10
5369	Hollow nickel-cobalt sulfide nanospheres cathode hybridized with carbon spheres anode for ultrahigh energy density asymmetric supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 10056-10068.	3.8	38
5370	Gold nanoparticles for power retention in electrochemical capacitors with KSCN-based aqueous electrolyte. <i>Journal of Power Sources Advances</i> , 2022, 14, 100087.	2.6	0
5371	Propping the electrochemical impedance spectra at different voltages reveals the untapped supercapacitive performance of materials. <i>Electrochimica Acta</i> , 2022, 408, 139932.	2.6	18
5372	TiO ₂ nanoflowers@Au@MnO ₂ core-shell composite based on modified Ti foil for flexible supercapacitor electrode. <i>Electrochimica Acta</i> , 2022, 407, 139866.	2.6	14
5373	Synthetic strategies of single-atoms catalysts and applications in electrocatalysis. <i>Electrochimica Acta</i> , 2022, 409, 139835.	2.6	8
5374	A review on polyvinylidene fluoride polymer based nanocomposites for energy storage applications. <i>Journal of Energy Storage</i> , 2022, 48, 103788.	3.9	42
5375	Jagged carbon nanotubes from polyaniline: Strain-driven high-performance for Zn-air battery. <i>Chemical Engineering Journal</i> , 2022, 434, 134617.	6.6	16
5376	High entropy lithium garnets – Testing the compositional flexibility of the lithium garnet system. <i>Journal of Solid State Chemistry</i> , 2022, 308, 122944.	1.4	10
5377	Preparation of metal sulfide electrode materials derived based on metal organic framework and application of supercapacitors. <i>Journal of Energy Storage</i> , 2022, 49, 104073.	3.9	13
5378	Green fabrication of ZnAl ₂ O ₄ -coated LiFePO ₄ nanoparticles for enhanced electrochemical performance in Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163910.	2.8	30
5379	A fully-conjugated covalent organic framework-derived carbon supporting ultra-close single atom sites for ORR. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121147.	10.8	42
5381	Review – An Overview on Supercapacitors and Its Applications. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020552.	1.3	33
5382	Hygroscopic Chemistry Enables Fire-tolerant Supercapacitors with a Self-healable Solute-in-Air Electrolyte. <i>Advanced Materials</i> , 2022, 34, e2109857.	11.1	12
5383	Ultrafast flashlight sintered mesoporous NiO nanosheets for stable asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 436, 135041.	6.6	35
5384	Recent progress of two-dimensional metallic transition metal dichalcogenides: Syntheses, physical properties, and applications. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	13

#	ARTICLE	IF	CITATIONS
5385	Enhancement of selectivity towards the synthesis of hydrogen peroxide by dimensional effect in mesoporous carbon. <i>Microporous and Mesoporous Materials</i> , 2022, 333, 111741.	2.2	2
5386	NiCoO ₂ nanosheets interlayer network connected in reduced graphene oxide and MXene for high-performance asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 49, 104176.	3.9	12
5387	PVD techniques proffering avenues for fabrication of porous tungsten oxide (WO ₃) thin films: A review. <i>Materials Science in Semiconductor Processing</i> , 2022, 143, 106534.	1.9	31
5388	Understanding PEDOT doped with tosylate. <i>Chemical Communications</i> , 2022, 58, 4553-4560.	2.2	12
5389	MXenes: Synthesis, properties, and electrochemical performance of titanium, vanadium, and tantalum carbide MXenes as supercapacitor electrodes. , 2022, , 387-416.		1
5390	Reduced Graphene Oxide-Based Metal Nanocomposites as Advanced Functional Electrode Material for Ni/Fe Rechargeable Batteries. <i>Springer Proceedings in Energy</i> , 2022, , 111-119.	0.2	0
5391	Ultrafine Mo ₂ c-Mo ₂ n Heterojunction Anchored on Three-Dimensional Porous N-Doped Carbon Framework for Hydrogen Evolution Reaction and Lithium-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5392	Flexible solid-state hybrid supercapacitors for the internet of everything (IoE). <i>Energy and Environmental Science</i> , 2022, 15, 2233-2258.	15.6	76
5393	Reduced Graphene Oxide/Hexagonal Boron Nitride-Based Composite as a Positive Electrode in Asymmetric Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5394	Construction of γ -MnO ₂ on Carbon Fibers Modified with Carbon Nanotubes for Ultrafast Flexible Supercapacitors in Ionic Liquid Electrolytes with Wide Voltage Windows. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5395	General aspects in the modeling of fuel cells: from conventional fuel cells to nano fuel cells. , 2022, , 77-121.		6
5396	Polyanionic insertion hosts for aqueous rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6376-6396.	5.2	14
5397	A 2.8 V Self-Supported Vo(Po ₃) ₂ Electrode for Aqueous Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5398	Influence of external stack pressure on the performance of Li-S pouch cell. <i>JPhys Energy</i> , 2022, 4, 014004.	2.3	5
5399	Introduction to modular process intensification. , 2022, , 3-18.		0
5400	Regulating Electronic Descriptors for the Enhanced ORR Activity of FePc-Functionalized Graphene via Substrate Doping and/or Ligand Exchange: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4458-4471.	1.5	8
5401	Constructing Advanced Aqueous Zinc-Ion Batteries with 2D Carbon-Rich Materials. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	2.8	4
5402	Self-Assembled Nanocomposites and Nanostructures for Environmental and Energy Applications. <i>Crystals</i> , 2022, 12, 274.	1.0	0

#	ARTICLE	IF	CITATIONS
5403	Mapping and Scientometric Measures on Research Publications of Energy Storage and Conversion. Topics in Catalysis, 0, , 1.	1.3	0
5404	Single-Ion <i>versus</i> Dual-Ion Conducting Electrolytes: The Relevance of Concentration Polarization in Solid-State Batteries. ACS Applied Materials & Interfaces, 2022, 14, 11559-11566.	4.0	34
5405	Electrochemical Properties of Carbon Electrodes Modified with Cobalt Hexacyanoferrate and Nickel Hexacyanoferrate Nanoparticles. Inorganic Materials, 2022, 58, 124-132.	0.2	0
5406	Vanadium Nitride@nitrogen-Doped Graphene as Zinc Ion Battery Cathode with High Rate Capability and Long Cycle Stability. Industrial & Engineering Chemistry Research, 2022, 61, 2955-2962.	1.8	11
5407	Ultra-small RuO ₂ nanoparticles supported on carbon cloth as a high-performance pseudocapacitive electrode. Advanced Composites and Hybrid Materials, 2022, 5, 696-703.	9.9	7
5408	The Preparation and Electrochemical Pseudocapacitive Performance of Mutual Nickel Phosphide Heterostructures. Crystals, 2022, 12, 469.	1.0	4
5409	Critical Current Densities for High-Performance All-Solid-State Li-Metal Batteries: Fundamentals, Mechanisms, Interfaces, Materials, and Applications. ACS Energy Letters, 2022, 7, 1492-1527.	8.8	70
5410	Surfactant intercalated polypyrrole-exfoliated graphene oxide hybrid thin film symmetric supercapacitor. Journal of Materials Science, 2022, 57, 6749-6762.	1.7	10
5411	Advanced Machine Learning Methods for Learning from Sparse Data in High-Dimensional Spaces: A Perspective on Uses in the Upstream of Development of Novel Energy Technologies. Physchem, 2022, 2, 72-95.	0.5	8
5412	Harmonic Mitigation using Hybrid Control Method in Energy Storage Integrated Microgrid. , 2022, , .		1
5413	Supercapacitors Fabrication and Performance Evaluation Techniques. , 0, , .		0
5415	Heteroatom-doped reduced graphene oxide integrated with nickel-cobalt phosphide for high-performance asymmetric hybrid supercapacitors. Materials Today Nano, 2022, 18, 100195.	2.3	11
5416	Heterostructure-Regulated Metal Silicates Composite Material for Enhancing the Lithium-Ion Batteries Performance. ChemElectroChem, 2022, 9, .	1.7	2
5417	Advances in micro-supercapacitors (MSCs) with high energy density and fast charge/discharge capabilities for flexible bioelectronic devices—A review. Electrochemical Science Advances, 2023, 3, .	1.2	15
5418	Electrochemical evaluation of highly stable Mn ferrite/PEDOT/rGO ternary nanocomposite for supercapacitor electrodes. Journal of Materials Science: Materials in Electronics, 2022, 33, 7838-7852.	1.1	6
5419	Recent advances in solid-liquid-gas phase interfaces in electrocatalysis for energy conversion and storage. EcoMat, 2022, 4, .	6.8	25
5420	Three-Dimensional MXenes for Supercapacitors: A Review. Small Methods, 2022, 6, e2101537.	4.6	75
5421	Bismuth sulfoiodide (BiSI) for photo-chargeable charge storage device. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	9

#	ARTICLE	IF	CITATIONS
5422	Seamless All-Solid-State Supercapacitor Fabricated Using a Proton-Conducting Methanesulfonic Acid-Intercalated Graphene Oxide Film as an Electrolyte. <i>Macromolecular Rapid Communications</i> , 2022, , 2100912.	2.0	1
5423	Electrochemical energy storage on nanoporous copper sponge. <i>Journal of Materials Research</i> , 0, , 1.	1.2	2
5424	A Facile Synthesis of PbS-C QDs Nanocomposite as Electrode Material with Enhanced Energy Density for High Performance Supercapattery Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 2135-2145.	1.9	0
5425	Joule heating of ionic conductors using zero-phase frequency alternating current to suppress electrochemical reactions. <i>Engineering</i> , 2022, , .	3.2	4
5426	Lithium-Diffusion Induced Capacity Losses in Lithium-Based Batteries. <i>Advanced Materials</i> , 2022, 34, e2108827.	11.1	44
5427	Passive direct methanol fuel cells as a sustainable alternative to batteries in hearing aid devices – An overview. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 16552-16567.	3.8	20
5428	Performance analysis of aqueous Al-ion electrolyte based dye sensitized solar cell. <i>Solar Energy</i> , 2022, 236, 608-612.	2.9	3
5429	Tuning the Porous Structure in PMMA-Templated Mesoporous MoO ₂ for Pseudocapacitive Li-Ion Electrodes. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040545.	1.3	4
5430	Revealing interfacial space charge storage of Li ⁺ /Na ⁺ /K ⁺ by operando magnetometry. <i>Science Bulletin</i> , 2022, 67, 1145-1153.	4.3	23
5431	Synthesis and Electrochemical Properties of Lignin-Derived High Surface Area Carbons. <i>Surfaces</i> , 2022, 5, 265-279.	1.0	2
5432	Efficient method for synthesizing graphene materials applied in lithium-ion capacitors with high performance. <i>Ionics</i> , 0, , 1.	1.2	1
5433	Dielectric gel electrolytes for safe charge storage from ~20 to 80°C by double-layer capacitors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 134, 104309.	2.7	3
5434	Intercalation pseudocapacitive charge storage through enlargement of d-spacing in recrystallized Cr ₂ O ₃ nanostructures: A supercapattery. <i>Journal of Electroanalytical Chemistry</i> , 2022, 912, 116234.	1.9	4
5435	Nanohybrids of hematite nanoparticles and reduced graphene oxide nanosheets: Anode materials for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164392.	2.8	9
5436	A review on the recent advances in binder-free electrodes for electrochemical energy storage application. <i>Journal of Energy Storage</i> , 2022, 50, 104283.	3.9	57
5437	Strategic management of harmful chemicals produced from pyrolysis of plastic cup waste using CO ₂ as a reaction medium. <i>Chemical Engineering Journal</i> , 2022, 437, 135524.	6.6	15
5438	Surface reconstruction of oxidized platinum nanoparticles using classical molecular dynamics simulations. <i>Computational Materials Science</i> , 2022, 209, 111364.	1.4	2
5439	Oxidation of benzyl alcohol using linear paired electrolysis. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107490.	3.3	1

#	ARTICLE	IF	CITATIONS
5440	Valorizing plastic toy wastes to flammable gases through CO ₂ -mediated pyrolysis with a Co-based catalyst. <i>Journal of Hazardous Materials</i> , 2022, 434, 128850.	6.5	3
5441	Waste chicken bone-derived porous carbon materials as high performance electrode for supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 51, 104378.	3.9	25
5442	High performance binary composite (Sr(OH) ₂ /CoO(OH)) thin film for solid state supercapacitor. <i>Journal of Energy Storage</i> , 2022, 51, 104328.	3.9	5
5443	Perspectives of conducting polymer nanostructures for high-performance electrochemical capacitors. <i>Journal of Energy Storage</i> , 2022, 51, 104418.	3.9	29
5444	Flower-like nickel-cobalt-layered double hydroxide nanosheets deposited on hierarchically porous graphitic carbon nitride for enhanced electrochemical energy storage. <i>Journal of Energy Storage</i> , 2022, 51, 104541.	3.9	5
5445	Advances in chemical and biomass-derived graphene/graphene-like nanomaterials for supercapacitors. <i>Journal of Energy Storage</i> , 2022, 51, 104445.	3.9	18
5446	Design strategy for low-temperature sulfur etching to achieve high-performance hollow multifunctional electrode material. <i>Journal of Materials Science and Technology</i> , 2022, 119, 209-218.	5.6	7
5447	RuO_2 as promoter in Pt/RuO_2 nanostructures/carbon composite, a universal catalyst for hydrogen evolution/oxidation reactions. <i>International Journal of Energy Research</i> , 2022, 46, 6406-6420.	2.2	7
5448	Investigating the effect of vacuum impregnation of supercapacitor electrode in electrolyte. , 2021, , .		0
5449	Hybrid Power System for the Range Extension of Security Robots: Prototyping Phase. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12095.	1.3	0
5450	Large-Pore Ordered Mesoporous Turbostratic Carbon Films Prepared Using Rapid Thermal Annealing for High-Performance Micro-pseudocapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61027-61038.	4.0	10
5451	Chemical modification of ordered/disordered carbon nanostructures for metal hosts and electrocatalysts of lithium-air batteries. <i>Informa-Materially</i> , 2022, 4, .	8.5	25
5452	Hierarchical Mg-Birnessite Nanowall Arrays with Enriched (010) Planes for High Performance Aqueous Mg-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120549.	1.3	8
5453	Recent progress and future perspectives of flexible metal-air batteries. <i>SmartMat</i> , 2021, 2, 519-553.	6.4	43
5454	Understanding of Bulk and Interfacial Structures Ternary and Binary Deep Eutectic Solvents with a Constant Potential Method: A Molecular Dynamics Study. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	1.3	3
5455	Atomistic modeling of Li- and post-Li-ion batteries. <i>Physical Review Materials</i> , 2022, 6, .	0.9	17
5456	Technical benchmarking and challenges of kilowatt scale vanadium redox flow battery. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2022, 11, .	1.9	11
5457	Interplay of hetero-MN ₄ catalytic sites on graphene for efficient oxygen reduction reaction. <i>Electrochimica Acta</i> , 2022, 419, 140397.	2.6	2

#	ARTICLE	IF	CITATIONS
5458	Lithium-ion battery separators based on electrospun PVDF: A review. <i>Surfaces and Interfaces</i> , 2022, 31, 101977.	1.5	34
5459	Porous Hard Carbon as High-Performance Electrode Material for Supercapacitors: Towards Sustainable Approach. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 041010.	0.9	3
5460	Covalent Organic Framework for Rechargeable Batteries: Mechanisms and Properties of Ionic Conduction. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	72
5461	Direct ink writing of conductive materials for emerging energy storage systems. <i>Nano Research</i> , 2022, 15, 6091-6111.	5.8	11
5462	A high-voltage aqueous rechargeable zinc-polyaniline hybrid battery achieved by decoupling alkali ⁺ acid electrolyte. <i>Chemical Engineering Journal</i> , 2022, 444, 136478.	6.6	13
5463	Formic acid electro-oxidation: Mechanism and electrocatalysts design. <i>Nano Research</i> , 2023, 16, 3607-3621.	5.8	12
5464	All Transition Metal Selenide Composed High-Energy Solid-State Hybrid Supercapacitor. <i>Small</i> , 2022, 18, e2200248.	5.2	49
5465	High-performance supercapacitor based on a ternary nanocomposites of NiO, polyaniline, and Ni/NiO-decorated MWCNTs. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 134, 104318.	2.7	10
5466	A rational design of MnO ₂ /CuO/r-GO hybrid and biomass-derived activated carbon for asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 50, 104625.	3.9	14
5467	One-step electrodeposited Co and Mn layered double hydroxides on Ni foam for high-performance aqueous asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 50, 104667.	3.9	16
5474	Construction of γ -MnO ₂ on Carbon Fibers Modified with Carbon Nanotubes for Ultrafast Flexible Supercapacitors in Ionic Liquid Electrolytes with Wide Voltage Windows. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
5475	Improvement of Quasi-Solid-State Supercapacitors Based on ω -Water-in-Salt \cdot Hydrogel Electrolyte by Introducing Redox-Active Ionic Liquid and Carbon Nanotubes. <i>New Journal of Chemistry</i> , 0, , .	1.4	3
5476	Design and developments in ceramic materials for electrochemical applications. , 2022, , 353-377.		0
5477	Multicriteria decision making in organic-metal frameworks for fuel storage. , 2022, , 609-630.		0
5478	Microwave heating followed by a solvothermal method to synthesize nickel ⁺ cobalt selenide/rGO for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2022, 46, 10328-10338.	1.4	5
5479	Understanding specific ion effects and the Hofmeister series. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12682-12718.	1.3	101
5480	Eco-Friendly Synthesis of Vanadium Metal-Organic Frameworks from Gasification Waste for Wearable Zn-Ion Batteries. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
5481	Nonnoble metal oxides for high-performance Zn ⁺ air batteries: Design strategies and future challenges. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2022, 17, .	0.8	2

#	ARTICLE	IF	CITATIONS
5482	Flexible carbon nanofiber yarn electrodes for self-standing fiber supercapacitors. <i>Journal of Industrial Textiles</i> , 2022, 51, 4254S-4267S.	1.1	11
5483	Quadrangular Prism Porous Shells Constructed by Parallely Interconnected and Lattice-Strained NiCoP Nanoflakes for Maximized Energy Storage. <i>Advanced Materials Interfaces</i> , 0, , 2200590.	1.9	2
5484	Recent Advancements of Polyaniline/Metal Organic Framework (PANI/MOF) Composite Electrodes for Supercapacitor Applications: A Critical Review. <i>Nanomaterials</i> , 2022, 12, 1511.	1.9	47
5485	Battery energy storage systems and SWOT (strengths, weakness, opportunities, and threats) analysis of batteries in power transmission. <i>Energy</i> , 2022, 254, 123987.	4.5	74
5486	Facile synthesis of paratoluene sulfonic acid assisted S-doped polyaniline hybrid composite for energy storage devices. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , 1.	1.1	1
5487	Electrodeposition of Cobalt-Copper Oxides decorated with conductive polymer for supercapacitor electrodes with high stability. <i>ChemElectroChem</i> , 0, , .	1.7	2
5488	Research progress of precise structural regulation of single atom catalyst for accelerating electrocatalytic oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2022, 72, 56-72.	7.1	33
5489	Improving the Performance of Aqueous Zinc-Ion Batteries by Inhibiting Zinc Dendrite Growth: Recent Progress. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	9
5490	Construction of Hierarchical NiCo ₂ O ₄ @NiFe-LDH Core-Shell Heterostructure for High-performance Positive Electrode for Supercapacitor. <i>ChemNanoMat</i> , 2022, 8, .	1.5	8
5491	Co-doping Graphene with B and N Heteroatoms for Application in Energy Conversion and Storage Devices. <i>ChemNanoMat</i> , 2022, 8, .	1.5	8
5492	Recent Progress on Organic Electrode Materials for Multivalent (Zn, Al, Mg, Ca) Secondary Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	23
5493	Interface Coordination Stabilizing Reversible Redox of Zinc for High-performance Zinc-Iodine Batteries. <i>Small</i> , 2022, 18, e2200168.	5.2	35
5494	Quantification of charge compensation in lithium- and manganese-rich Li-ion cathode materials by x-ray spectroscopies. <i>Materials Today Physics</i> , 2022, 24, 100687.	2.9	2
5495	New Strategy for Improved Conductivity and Redox-Enhanced Supercapacitor Performance of Nickel Metal-Organic Framework. <i>Chemical Engineering Journal Advances</i> , 2022, 11, 100311.	2.4	1
5496	MnO ₂ core-shell type materials for high-performance supercapacitors: A short review. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109493.	1.8	33
5497	Evaporation-induced hydrated graphene/polyaniline/carbon cloth integration towards high mass loading supercapacitor electrodes. <i>Chemical Engineering Journal</i> , 2022, 445, 136727.	6.6	33
5498	Changes in structure and stability of lithium polysulfides encapsulated in carbon nanotubes: A DFT study. <i>Journal of Molecular Liquids</i> , 2022, 359, 119287.	2.3	2
5499	Self-supported VO(PO ₃) ₂ electrode for 2.8V symmetric aqueous supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 445, 136726.	6.6	9

#	ARTICLE	IF	CITATIONS
5501	Easy enrichment of graphitic nitrogen to prepare highly catalytic carbons for oxygen reduction reaction. <i>Carbon</i> , 2022, , .	5.4	7
5502	Boundary-Monte Carlo Method for Neutral and Charged Confined Fluids. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 3766-3780.	2.3	0
5503	Modulation of proton-coupled electron transfer reactions in lysine-containing alpha-helices: alpha-helices promoting long-range electron transfer. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14592-14602.	1.3	2
5506	Conceptual Design of a Hybrid Hydrogen Fuel Cell/Battery Blended-Wing-Body Unmanned Aerial Vehicle"An Overview. <i>Aerospace</i> , 2022, 9, 275.	1.1	12
5507	Recent trends, challenges, and perspectives in piezoelectric-driven self-chargable electrochemical supercapacitors. , 2022, 4, 833-855.		16
5508	A Study on Pre-Oxidation of Petroleum Pitch-Based Activated Carbons for Electric Double-Layer Capacitors. <i>Molecules</i> , 2022, 27, 3241.	1.7	2
5509	High C1 selectivity in alkaline ethanol oxidation reaction over stable Lewis pairs of Pd-MxC@CNT (M=AW, Mo and Cr). <i>Chemical Engineering Journal</i> , 2022, 446, 137178.	6.6	8
5510	Interface engineering for modulating catalytic selectivity of covalent organic frameworks for oxygen reduction. <i>Materials Today Chemistry</i> , 2022, 24, 100936.	1.7	3
5511	Molten salt-based nanocomposites for thermal energy storage: Materials, preparation techniques and properties. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 164, 112548.	8.2	12
5512	An overview of patents and recent development in flexible supercapacitors. <i>Journal of Energy Storage</i> , 2022, 52, 104887.	3.9	22
5514	Bio-Inspired Micro-Reactor Mimicking Multi-Ridged Mitochondrial Intimae for Efficient Oxygen Reduction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5515	Synergistic Incorporation of Fe and Co into Nickel Boride Nanosheets to Tune Voltage Plateau and Charge Storage in Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5516	Understanding of 3D hierarchically porous carbon modified electrode based on finite element modeling. <i>New Journal of Chemistry</i> , 0, , .	1.4	0
5517	Effect of structure on oxygen diffusivity in layered oxides: a combined theoretical and experimental study. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15402-15414.	5.2	4
5518	Governing Mechanism of Ion Transport in Lithium-Iron-Phosphate Glasses. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5519	Recent Advances in Dual-Atom Site Catalysts for Efficient Oxygen and Carbon Dioxide Electrocatalysis. <i>Small Methods</i> , 2022, 6, .	4.6	36
5520	<sc>High-performance</sc> supercapacitor electrolytes based on <sc>high-mole-ratio</sc> phosphoric acid/lauryl ether surfactant liquid crystalline gel. <i>International Journal of Energy Research</i> , 2022, 46, 19980-19991.	2.2	2
5521	Fabrication of CuFe2O4@g-C3N4@GNPs nanocomposites as anode material for supercapacitor applications. <i>Ceramics International</i> , 2022, 48, 24609-24618.	2.3	18

#	ARTICLE	IF	CITATIONS
5522	Molecular Catalysts with Diphosphine Ligands Containing Pendant Amines. <i>Chemical Reviews</i> , 2022, 122, 12427-12474.	23.0	48
5523	Metal-Organic Framework-Based Materials for Aqueous Zinc-Ion Batteries: Energy Storage Mechanism and Function. <i>Chemical Record</i> , 2022, 22, .	2.9	29
5524	All 3D Printing Shape-Conformable Zinc Ion Hybrid Capacitors with Ultrahigh Areal Capacitance and Improved Cycle Life. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	18
5525	Cellulose-derived carbon aerogels: A novel porous platform for supercapacitor electrodes. <i>Materials and Design</i> , 2022, 219, 110778.	3.3	18
5526	Green bridge between waste and energy: conversion the rotten wood into cathode for functional Zn-air battery. <i>Electrochimica Acta</i> , 2022, 424, 140667.	2.6	10
5527	Wrinkled Flower-Like rGO intercalated with Ni(OH) ₂ and MnO ₂ as High-Performing Supercapacitor Electrode. <i>ACS Omega</i> , 2022, 7, 20145-20154.	1.6	9
5528	A bright future of hydrogels in flexible batteries and Supercapacitors storage systems: A review. <i>International Journal of Energy Research</i> , 2022, 46, 13276-13307.	2.2	5
5529	A non-flammable, flexible and UV-cured gel polymer electrolyte with crosslinked polymer network for dendrite-suppressing lithium metal batteries. <i>Ionics</i> , 2022, 28, 3743-3759.	1.2	6
5530	Synthesis and characterization of sulfonated hafnium oxide nanoparticles for energy storage devices. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109615.	1.8	6
5531	High frequency response of adenine-derived carbon in aqueous electrochemical capacitor. <i>Electrochimica Acta</i> , 2022, 424, 140649.	2.6	1
5532	Comparative supercapacitive analysis of 2-methylimidazole derived cobalt nickel oxides (CoNiO ₂ and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Storage, 2022, 52, 104993.	3.9	4
5533	Recent advances in metal pyrophosphates for electrochemical supercapacitors: A review. <i>Journal of Energy Storage</i> , 2022, 52, 104986.	3.9	17
5534	BiFeO ₃ /Fe ₂ O ₃ electrode for photoelectrochemical water oxidation and photocatalytic dye degradation: A single step synthetic approach. <i>Chemosphere</i> , 2022, 303, 135071.	4.2	12
5535	Oxygen reduction reaction by metal-free catalysts. , 2022, , 241-275.		1
5536	Oxygen reduction reaction in methanol fuel cells. , 2022, , 305-336.		0
5537	Cutting-edge development in waste-recycled nanomaterials for energy storage and conversion applications. <i>Nanotechnology Reviews</i> , 2022, 11, 2215-2294.	2.6	13
5538	Bimetal nanoparticles hybridized with carbon nanotube boosting bifunctional oxygen electrocatalytic performance. <i>Rare Metals</i> , 2022, 41, 2616-2623.	3.6	9
5539	NMR and Theoretical Study of In-Pore Diffusivity of Ionic Liquid-Solvent Mixtures. <i>Journal of Physical Chemistry B</i> , 2022, 126, 4889-4898.	1.2	3

#	ARTICLE	IF	CITATIONS
5540	Transition metal oxides with perovskite and spinel structures for electrochemical energy production applications. <i>Environmental Research</i> , 2022, 214, 113731.	3.7	21
5542	Optimizing the Electronic Structure of Ordered Pt-Co-Ti Ternary Intermetallic Catalyst to Boost Acidic Oxygen Reduction. <i>ACS Catalysis</i> , 2022, 12, 7571-7578.	5.5	31
5543	Graphene Hydrogels Implanted onto Carbon Cloth for Polypyrrole Electrodeposition toward High-Performance Supercapacitor Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8495-8505.	3.2	8
5544	Influence of Electrode Parameters on the Performance Behavior of Lithium-Ion Battery. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2023, 20, .	1.1	2
5545	Review on recent advancements in chemically synthesized manganese cobalt oxide (MnCo ₂ O ₄) and its composites for energy storage application. <i>Chemical Engineering Journal</i> , 2022, 450, 137425.	6.6	36
5546	A non-precious hydrogen catalyst coated metallic electrode in an electrochemical neutralization cell for simultaneous fuel and power generation. <i>Chemical Engineering Journal</i> , 2022, 448, 137716.	6.6	5
5547	Recent progress in stretchable and self-healable supercapacitors: active materials, mechanism, and device construction. <i>Journal of Micromechanics and Microengineering</i> , 2022, 32, 073001.	1.5	1
5548	Next-Generation Energy Harvesting and Storage Technologies for Robots Across All Scales. <i>Advanced Intelligent Systems</i> , 2023, 5, .	3.3	10
5549	Application of Tungsten-Oxide-Based Electrochromic Devices for Supercapacitors. <i>Applied System Innovation</i> , 2022, 5, 60.	2.7	6
5550	Construction of δ -MnO ₂ on Carbon Fibers Modified with Carbon Nanotubes for Ultrafast Flexible Supercapacitors in Ionic Liquid Electrolytes with Wide Voltage Windows. <i>Nanomaterials</i> , 2022, 12, 2020.	1.9	9
5551	Nanoparticle-enhanced multifunctional nanocarbons' recent advances on electrochemical energy storage applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 413001.	1.3	15
5552	Identifying soft breakdown in all-solid-state lithium battery. <i>Joule</i> , 2022, 6, 1770-1781.	11.7	71
5553	Advances in polymeric nanocomposites for automotive applications: A review. <i>Polymers for Advanced Technologies</i> , 2022, 33, 3023-3048.	1.6	23
5554	Electron spin modulation engineering in oxygen-involved electrocatalysis. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 364002.	0.7	4
5555	Effect of gamma-irradiation on electrochemical properties of ZnCo ₂ O ₄ -rGO for supercapacitor application. <i>Diamond and Related Materials</i> , 2022, 127, 109157.	1.8	8
5556	Recent development and prospective of carbonaceous material, conducting polymer and their composite electrode materials for supercapacitor - A review. <i>Journal of Energy Storage</i> , 2022, 52, 104937.	3.9	61
5557	Toilless selenylation route to enhance the supercapacitor conductive performance of nanoflower-like NiAl-layered double hydroxide. <i>Journal of Energy Storage</i> , 2022, 52, 104968.	3.9	11
5558	Effect of aqueous electrolytes on h-WO ₃ nanorods as an electrode material for supercapacitor application. <i>Chemical Physics Letters</i> , 2022, 802, 139760.	1.2	19

#	ARTICLE	IF	CITATIONS
5559	Metal-organic frameworks marry carbon: Booster for electrochemical energy storage. <i>Journal of Energy Storage</i> , 2022, 53, 105104.	3.9	12
5560	Direct utilization of radioactive irradiated graphite as a high-energy supercapacitor a promising electrode material. <i>Fuel</i> , 2022, 325, 124843.	3.4	14
5561	Nanoarchitectonics of GO/PANI/CoFe ₂ O ₄ (Graphene Oxide/polyaniline/Cobalt Ferrite) based hybrid composite and its use in fabricating symmetric supercapacitor devices. <i>Journal of Molecular Structure</i> , 2022, 1266, 133515.	1.8	28
5562	Carbon nitrides as catalyst support in fuel cells: Current scenario and future recommendation. , 2022, , 39-62.		0
5563	Tetra germanium nonaselenide enwrapped with reduced graphene oxide and functionalized carbon nanotubes (Ge ₄ Se ₉ /RGO/FCNTs) hybrids for improved energy storage performances. <i>Dalton Transactions</i> , 0, , .	1.6	4
5565	Nitro-oxidized carboxylated cellulose nanofiber based nanopapers and their PEM fuel cell performance. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3669-3680.	2.5	11
5566	Metal nanoclusters for energy storage applications. , 2022, , 625-658.		1
5567	Analysing oxygen reduction electrocatalysis on transition metal doped niobium oxide(110). <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	2
5568	Decoupled aqueous batteries using pH-decoupling electrolytes. <i>Nature Reviews Chemistry</i> , 2022, 6, 505-517.	13.8	44
5569	N, P co-doped graphene enriched phosphorus as a highly efficient oxygen reduction catalyst. <i>Journal of Electroanalytical Chemistry</i> , 2022, 921, 116560.	1.9	9
5570	Rechargeable Manganese Dioxide ⁺ Zinc Batteries: A Review Focusing on Challenges and Optimization Strategies under Alkaline and Mild Acidic Electrolyte Media. <i>ChemNanoMat</i> , 2022, 8, .	1.5	4
5571	Li ⁺ and Sm ³⁺ co-doped AgNbO ₃ -based antiferroelectric ceramics for high-power energy storage. <i>Ceramics International</i> , 2022, 48, 32703-32711.	2.3	15
5572	Construction of amorphous CoFeOx(OH)y/MoS ₂ /CP electrode for superior OER performance. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 28859-28868.	3.8	16
5573	Chemomechanics of Rechargeable Batteries: Status, Theories, and Perspectives. <i>Chemical Reviews</i> , 2022, 122, 13043-13107.	23.0	59
5574	Fabrication of Zn-Cu-Ni Ternary Oxides in Nanoarrays for Photo-Enhanced Pseudocapacitive Charge Storage. <i>Nanomaterials</i> , 2022, 12, 2457.	1.9	1
5575	Recent progress on the modification of high nickel content NCM: Coating, doping, and single crystallization. , 2022, 1, 330-353.		38
5576	A Critical Review on Artificial Intelligence for Fuel Cell Diagnosis. <i>Catalysts</i> , 2022, 12, 743.	1.6	14
5577	Self-promoted Nickel-chalcogenide Nanostructures: A Novel Electrochemical Supercapacitor Device-design Strategy. <i>Materials Research Bulletin</i> , 2022, 156, 111975.	2.7	8

#	ARTICLE	IF	CITATIONS
5578	Photo crosslinked stilbene-containing sulfonated polyimide membranes as proton exchange membranes in fuel cell. <i>European Polymer Journal</i> , 2022, 176, 111418.	2.6	4
5579	Quinuclidinium-piperidinium based dual hydroxide anion exchange membranes as highly conductive and stable electrolyte materials for alkaline fuel cell applications. <i>Electrochimica Acta</i> , 2022, 426, 140826.	2.6	9
5580	Universal multifunctional hydrogen bond network construction strategy for enhanced aqueous Zn ²⁺ /proton hybrid batteries. <i>Nano Energy</i> , 2022, 100, 107539.	8.2	33
5581	Influence on effective and ineffective delamination of MXene (Ti ₃ C ₂ T _x) by tightly anchoring tin oxide nanocomposite for boosting the specific capacitance of supercapacitor. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166092.	2.8	9
5582	Microscopic principles of chemical engineering after fossil fuels. , 2022, 1, 222-229.		1
5583	Metal-Organic Framework-Assisted Synthesis of Three-Dimensional ZnCoS Effloresced Nanopillars@CNT Paper for High-Performance Flexible All-Solid-State Battery-Type Supercapacitors with Ultrahigh Specific Capacitance. <i>ACS Applied Energy Materials</i> , 2022, 5, 8262-8272.	2.5	6
5584	MoO ₃ @Carbon Nanotube Negative Electrode Designed for a Fully Hybrid Asymmetric Metal Oxide-Based Pseudocapacitor Operating in an Organic Electrolyte. <i>ACS Applied Energy Materials</i> , 2022, 5, 9361-9372.	2.5	10
5585	Super Proton Conductive Nafion/Short Fiber/Nano-Silica/Deep Eutectic Solvent (DES) Composite Membrane for Application in Anhydrous Fuel Cells. <i>Macromolecular Materials and Engineering</i> , 0, , 2200318.	1.7	2
5586	Nanoarchitectonics and Electrochemical Behavior of Cu Doped h-MoO ₃ as an Electrode Material for Energy Storage Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 4284-4294.	1.9	5
5587	Development of solvate ionic liquid immobilized MCM-41 ionogel electrolytes for lithium battery. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	0
5588	Optimization of supercapacitive properties of polyindole by dispersion of MnO ₂ nanoparticles. <i>Chemical Physics Impact</i> , 2022, 5, 100100.	1.7	7
5589	A Review on 3D Zinc Anodes for Zinc Ion Batteries. <i>Small Methods</i> , 2022, 6, .	4.6	124
5590	Governing mechanism of ion transport in lithium-iron-phosphate glasses. <i>Journal of Alloys and Compounds</i> , 2022, 924, 166523.	2.8	3
5591	Fabrication of High-performance Supercapacitors Using Hierarchical MnO ₂ Nanostructures on a Frosted Glass Surface. <i>Energy Technology</i> , 0, , .	1.8	0
5592	Anti-CO ₂ strategies for extending Zinc-Air Batteries™ Lifetime: A review. <i>Chemical Engineering Journal</i> , 2022, 450, 138207.	6.6	16
5593	Cold start mode classification based on the water state for proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 20254-20264.	5.2	9
5594	Bio-Inspired Micro-Reactor Mimicking Multi-Ridged Mitochondrial Intimae for Efficient Oxygen Reduction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
5595	Catalytic activity trends of pyrite transition metal dichalcogenides for oxygen reduction and evolution. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 19911-19918.	1.3	3

#	ARTICLE	IF	CITATIONS
5596	Axial ligand engineering for highly efficient oxygen reduction catalysts in transition metal- N_{4} doped graphene. <i>New Journal of Chemistry</i> , 2022, 46, 16138-16150.	1.4	9
5597	Reduced graphene oxide/hexagonal boron nitride-based composite as a positive electrode in asymmetric supercapacitors. <i>Journal of Materials Science</i> , 2022, 57, 14371-14385.	1.7	5
5598	Synergistic effect of noble metal doping and composite formation to boost the electrochemical properties of vanadium pentoxide. <i>Ceramics International</i> , 2022, 48, 33306-33314.	2.3	17
5599	Study of storage mechanism and the electrochemical performance of $LiMnBO_3$ for lithium-ion batteries. <i>International Journal of Energy Research</i> , 0, , .	2.2	0
5600	Reclaimed γ - MnO_2 from exhausted Zn/C primary cells as active cathode in secondary Zn^{2+} ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 2479-2489.	1.2	1
5601	Tartaric acid as a novel additive for approaching high-performance capacity retention in zinc-ion battery. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
5602	Understanding Synthesis-Structure-Performance Correlations of Nanoarchitected Activated Carbons for Electrochemical Applications and Carbon Capture. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	32
5603	Synergistic Interaction of Clusters of Iron Oxide Nanoparticles and Reduced Graphene Oxide for High Supercapacitor Performance. <i>Nanomaterials</i> , 2022, 12, 2695.	1.9	7
5604	Remark on Conductivity Measurements: The Special Case of Single-Ion Conducting Electrolytes on Blocking Electrodes. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	2
5605	Batteries and Hydrogen Storage: Technical Analysis and Commercial Revision to Select the Best Option. <i>Energies</i> , 2022, 15, 6196.	1.6	10
5606	Achieving High-Performance Oxygen Reduction Catalyst and Zn -Air Battery through a Synergistic Nitrogen Doping Strategy. <i>Energy Technology</i> , 2022, 10, .	1.8	4
5607	Enhanced electrocatalytic activities of MoO_3 / rGO nanocomposites for oxygen reduction reaction. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 3459-3466.	1.6	1
5608	Deciphering the Double-Layer Structure and Dynamics on a Model Li_xMoO_3 Interface by Advanced Electrogravimetric Analysis. <i>ACS Nano</i> , 2022, 16, 14907-14917.	7.3	6
5609	Single-source approach to amorphous RuS_2 materials supported on SBA-15 and their catalytic activity for thiophene hydrodesulfurization. <i>Journal of Porous Materials</i> , 2023, 30, 175-182.	1.3	1
5610	Cobalt complex-based redox mediator-assisted gel polymer electrolyte (PVA- H_2SO_4 - $[Co(en)_3]Cl_3$) for high-performance supercapacitor. <i>Ionics</i> , 2022, 28, 4779-4792.	1.2	1
5611	$CoMoO_4$ as Pseudocapacitor Electrode Material and Methanol Electro-Oxidation Catalyst. <i>Journal of Cluster Science</i> , 2023, 34, 1727-1734.	1.7	1
5612	A Study on Superior Mesoporous Activated Carbons for Ultra Power Density Supercapacitor from Biomass Precursors. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8537.	1.8	10
5613	A density functional theory study of catalytic oxygen reduction reaction on $Co-CoO(111)$. <i>Molecular Catalysis</i> , 2022, 530, 112569.	1.0	1

#	ARTICLE	IF	CITATIONS
5614	Alkaline direct liquid fuel cells: Advances, challenges and perspectives. <i>Journal of Electroanalytical Chemistry</i> , 2022, 922, 116712.	1.9	10
5615	Graphdiyne supported single-atom cobalt catalyst for oxygen reduction reaction: The role of the co-adsorbates. <i>Chemical Physics Letters</i> , 2022, 804, 139805.	1.2	2
5616	Nanopetals shaped CuNi alloy with defects abundant active surface for efficient electrocatalytic oxygen evolution reaction and high performance supercapacitor applications. <i>Journal of Energy Storage</i> , 2022, 55, 105488.	3.9	13
5617	Mesopore-dominated porous carbon derived from vinasse for high performance supercapacitors with different electrolytes. <i>Industrial Crops and Products</i> , 2022, 187, 115462.	2.5	8
5618	The emerging aqueous zinc-organic battery. <i>Coordination Chemistry Reviews</i> , 2022, 472, 214772.	9.5	42
5619	Hollow Carbon Nanofibers with Inside-outside Decoration of Bi-metallic MOF Derived Ni-Fe Phosphides as Electrode Materials for Asymmetric Supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 450, 138363.	6.6	79
5620	Enhanced the synergistic degradation effect between active hydroxyl and reactive oxygen species for indoor formaldehyde based on platinum atoms modified MnOOH/MnO ₂ catalyst. <i>Journal of Colloid and Interface Science</i> , 2022, 628, 359-370.	5.0	11
5621	Anodic TiO ₂ nanotubes: A promising material for energy conversion and storage. <i>Applied Materials Today</i> , 2022, 29, 101613.	2.3	11
5622	Building a robust sulfur host for aqueous Cu-S battery by introducing nitrogen into carbon nanotubes. <i>Scripta Materialia</i> , 2022, 221, 114975.	2.6	3
5623	Construction and application in solid-state asymmetric supercapacitors of gladiolus-like NiSe/CoSe/Ni ₃ Se ₂ hierarchical nanocomposite with synergistic structural advantages. <i>Journal of Alloys and Compounds</i> , 2022, 925, 166696.	2.8	7
5624	Synthesis of fluorine free MXene through lewis acidic etching for application as electrode of proton supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 926, 166903.	2.8	28
5625	Surface and diffusive capacity controlled electrochemistry in nickel boride/nickel borate. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 116, 351-358.	2.9	3
5626	Synthesis of polydiphenylamine nanostructures via microwave and ultra-sonication method for supercapacitor performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 23236-23249.	1.1	1
5628	Nanocarbon-based electrode materials applied for supercapacitors. <i>Rare Metals</i> , 2022, 41, 3957-3975.	3.6	31
5629	Green algae as a sustainable source for energy generation and storage technologies. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102658.	1.7	5
5630	Towards the design of efficient metal free ORR catalysts based on Zeolite Templated Carbons. <i>Molecular Catalysis</i> , 2022, 531, 112669.	1.0	2
5631	The electrical impedance of carbon xerogel hierarchical electrodes. <i>Electrochimica Acta</i> , 2022, 433, 141203.	2.6	1
5632	A critical review on polyimide derived carbon materials for high-performance supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2022, 55, 105667.	3.9	16

#	ARTICLE	IF	CITATIONS
5633	Micro-electrochemical capacitors: Progress and future status. <i>Journal of Energy Storage</i> , 2022, 55, 105702.	3.9	7
5634	Copper sulfide nanoparticles on titanium dioxide (TiO ₂) nanoflakes: A new hybrid asymmetrical Faradaic supercapacitors with high energy density and superior lifespan. <i>Journal of Energy Storage</i> , 2022, 55, 105651.	3.9	27
5635	Calorimetry can detect the early onset of hydrolysis in hybrid supercapacitors with aqueous electrolytes. <i>Journal of Power Sources</i> , 2022, 548, 232069.	4.0	1
5636	Multi-scale electrochemical thermal model of Electric Double Layer Capacitor under galvanostatic cycling. <i>Journal of Power Sources</i> , 2022, 548, 231983.	4.0	5
5637	Functionalized nanoclays for improved properties of composite proton exchange membranes. <i>Journal of Power Sources</i> , 2022, 549, 232083.	4.0	8
5638	Uniform and fully decorated novel Li-doped $\hat{\pm}$ -Fe ₂ O ₃ nanoparticles for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 928, 167242.	2.8	7
5639	2D~3D hybrid hierarchical porous carbon with intrinsic and external defects for high energy density supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022, 928, 167218.	2.8	8
5640	$\hat{\mu}$ -MnO ₂ @C cathode with high stability for aqueous zinc-ion batteries. <i>Applied Surface Science</i> , 2022, 605, 154685.	3.1	15
5641	Eco-friendly synthesis of vanadium metal-organic frameworks from gasification waste for wearable Zn-ion batteries. <i>Energy Storage Materials</i> , 2022, 53, 352-362.	9.5	8
5642	Co single atoms and Co nanoparticle relay electrocatalyst for rechargeable zinc air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 319, 121905.	10.8	47
5643	Addressing the detrimental effect of CeO ₂ radical scavenger on the durability of polymer electrolyte membrane fuel cells. <i>Chemical Engineering Journal</i> , 2023, 452, 139061.	6.6	6
5644	Recent progress in ZnCo ₂ O ₄ and its composites for energy storage and conversion: a review. <i>Energy Advances</i> , 2022, 1, 793-841.	1.4	12
5645	Recent advances in novel graphene: new horizons in renewable energy storage technologies. <i>Journal of Materials Chemistry C</i> , 2022, 10, 11472-11531.	2.7	18
5646	Advances in the regulation of kinetics of cathodic H ⁺ /Zn ²⁺ interfacial transport in aqueous Zn/MnO ₂ electrochemistry. <i>Nanoscale</i> , 2022, 14, 14433-14454.	2.8	5
5647	Transition metal oxides as a cathode for indispensable Na-ion batteries. <i>RSC Advances</i> , 2022, 12, 23284-23310.	1.7	33
5648	The origin of high Na ⁺ ion conductivity in Na _{1+x} Zr ₂ Si _x P _{3x} O ₁₂ NASICON materials. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 22154-22167.	1.3	6
5649	Challenges and prospects of high-voltage aqueous electrolytes for energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 20674-20688.	1.3	3
5650	Amorphous Ni-Co Binary Hydroxide Nanospheres with Super-Long Cycle Life and Ultrahigh Rate Capability as Asymmetric Supercapacitors. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
5651	The quest for negative electrode materials for Supercapacitors: 2D materials as a promising family. <i>Chemical Engineering Journal</i> , 2023, 452, 139455.	6.6	34
5652	Electric double layer at the metal-oxide/electrolyte interface. , 2023, , .		0
5653	Development of hybrid aluminum-air battery fuel-cell system. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 1074, 012034.	0.2	0
5654	Interlayer and intralayer co-modified flexible V2CTX MXene@SWCNT films for high-power Li-ion capacitors. <i>Journal of Energy Chemistry</i> , 2023, 79, 101-109.	7.1	16
5655	N-Doped CrS2 Monolayer as a Highly-Efficient Catalyst for Oxygen Reduction Reaction: A Computational Study. <i>Nanomaterials</i> , 2022, 12, 3012.	1.9	1
5656	Inorganic Nanoflowersâ€™ Synthetic Strategies and Physicochemical Properties for Biomedical Applications: A Review. <i>Pharmaceutics</i> , 2022, 14, 1887.	2.0	5
5657	Applications of magnetic field for electrochemical energy storage. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	5
5658	Preparation of Graphene Conductive Fabrics and the Study of Their Degradation Behavior. <i>Coatings</i> , 2022, 12, 1432.	1.2	3
5659	Integrated Ni and Liâ€Rich Layered Oxide Cathode Materials for High Voltage Cycling in Rechargeable Liâ€Ion Batteries. <i>ChemElectroChem</i> , 2022, 9, .	1.7	3
5660	Mini Review of Reliable Fabrication of Electrode under Stretching for Supercapacitor Application. <i>Micromachines</i> , 2022, 13, 1470.	1.4	2
5661	Advances in multifunctional textile structural power composites: a review. <i>Journal of Materials Science</i> , 2022, 57, 17105-17138.	1.7	4
5662	Synthesis and electrochemical performance of MgFe2O4 with g-C3N4 on Ni-foam as composite anode material in supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 23427-23436.	1.1	9
5663	Iron Carbide Nanoparticles Embedded in Edge-Rich, N and F Codoped Graphene/Carbon Nanotubes Hybrid for Oxygen Electrocatalysis. <i>Catalysts</i> , 2022, 12, 1023.	1.6	4
5664	Rechargeable Batteries for Grid Scale Energy Storage. <i>Chemical Reviews</i> , 2022, 122, 16610-16751.	23.0	340
5665	Biodegradable and highly conductive polymeric blend based on the latex of <i>Calotropis gigantea</i> as solid electrolyte in energy storage applications. <i>High Performance Polymers</i> , 2023, 35, 16-27.	0.8	1
5666	Recent advance in MXenes: New horizons in electrocatalysis and environmental remediation technologies. <i>Progress in Solid State Chemistry</i> , 2022, 68, 100370.	3.9	9
5667	A Review on MXene Synthesis, Stability, and Photocatalytic Applications. <i>ACS Nano</i> , 2022, 16, 13370-13429.	7.3	142
5668	Recent progress in palladium-nonmetal nanostructure development for fuel cell applications. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	3

#	ARTICLE	IF	CITATIONS
5669	Superior energy storage performance of all-inorganic flexible antiferroelectric-insulator multilayer thin films. <i>Ceramics International</i> , 2023, 49, 5808-5814.	2.3	3
5670	High-energy density aqueous supercapacitors: The role of electrolyte pH and KI redox additive. <i>APL Materials</i> , 2022, 10, .	2.2	8
5671	Designing NiCo ₂ S ₄ -Acetylene black engrained nitrogen-doped porous reduced graphene oxide nanocomposites conducting network: As positive/negative electrode combinations for high energy density of asymmetric supercapacitor and hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2022, 292, 126812.	2.0	0
5672	A trinuclear cobalt complex, a new electrocatalyst for oxygen reduction to H ₂ O ₂ . <i>Inorganic Chemistry Communication</i> , 2022, , 110053.	1.8	1
5673	Integrated energy generation and storage systems for low-power device applications. <i>Energy Storage</i> , 2023, 5, .	2.3	1
5674	Recent major advances and challenges in the emerging graphene-based nanomaterials in electrocatalytic fuel cell technology. <i>Journal of Materials Chemistry C</i> , 2022, 10, 17812-17873.	2.7	3
5675	Supercapacitor and high properties of CNT-PbS reinforced quinoxaline amine based polybenzoxazine composites. <i>Soft Matter</i> , 2022, 18, 8779-8791.	1.2	10
5676	Status review of nickel phosphides for hybrid supercapacitors. <i>Nanoscale</i> , 2022, 14, 16731-16748.	2.8	13
5677	Hydrogen Utilization in Ships in Line with EU Green Deal Goals. <i>Lecture Notes in Energy</i> , 2022, , 699-721.	0.2	0
5678	Recent Advanced Supercapacitor: A Review of Storage Mechanisms, Electrode Materials, Modification, and Perspectives. <i>Nanomaterials</i> , 2022, 12, 3708.	1.9	54
5679	Enhancement of supercapacitor activity of MoS ₂ electrocatalyst via incorporation of copper interlayer. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	0
5680	Covalent Organic Frameworks for Ion Conduction. , 0, , .		2
5681	Electrochemical behavior of solvothermally grown ZIF-8 as electrode material for supercapacitor applications. <i>Materials Today: Proceedings</i> , 2023, 76, 125-131.	0.9	6
5682	Promising electrode material of Fe ₃ O ₄ nanoparticles decorated on V ₂ O ₅ nanobelts for high-performance symmetric supercapacitors. <i>Ceramics International</i> , 2023, 49, 6280-6288.	2.3	15
5683	Tetraphenylporphyrin Decorated Bi ₂ MoO ₆ Nanocomposite: Its Twin Affinity of Oxygen Reduction Reaction and Electrochemical Detection of 4-Nitrophenol. <i>Inorganic Chemistry</i> , 2022, 61, 17402-17418.	1.9	3
5684	Fabrication of a lead-free ternary ceramic system for high energy storage applications in dielectric capacitors. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	3
5685	Recent developments of hybrid metal chalcogenides for high performance supercapacitors. <i>Materials Today: Proceedings</i> , 2023, 73, 274-285.	0.9	11
5686	Accurate Modeling of Bromide and Iodide Hydration with Data-Driven Many-Body Potentials. <i>Journal of Physical Chemistry B</i> , 2022, 126, 8266-8278.	1.2	9

#	ARTICLE	IF	CITATIONS
5687	Hydrothermal synthesis of lanthanum tungstate (La ₂ (WO ₄) ₃) for high energy density asymmetric supercapacitor. European Physical Journal Plus, 2022, 137, .	1.2	5
5688	Recent advances in Znâ€“CO ₂ batteries for the co-production of electricity and carbonaceous fuels. Nano Materials Science, 2022, , .	3.9	2
5689	Room Temperature Synthesis of Vertically Aligned Amorphous Ultrathin <sc>NiCoâ€“LDH</sc> Nanosheets Bifunctional Flexible Supercapacitor Electrodes. Energy and Environmental Materials, 0, , .	7.3	6
5690	Recent advances of metalâ€“organic frameworksâ€“based proton exchange membranes in fuel cell applications. SusMat, 2022, 2, 504-534.	7.8	22
5691	Energy Storage Applications. Nanoscience and Technology, 2023, , 237-265.	1.5	0
5692	Evaluation of kinetic parameters of non-faradic processes in carbon-based electrodes using multisine dynamic electrochemical impedance spectroscopy. Electrochimica Acta, 2023, 437, 141462.	2.6	4
5693	High performance proton exchange membranes with double proton conduction pathways by introducing MOF impregnated with protic ionic liquid into SPEEK. Microporous and Mesoporous Materials, 2022, 346, 112314.	2.2	8
5694	Role and effect of electrolytes selection on supercapacitance behaviour of aminated graphenes. Electrochimica Acta, 2022, 435, 141400.	2.6	4
5695	Optimal tailored preparation of Sb/Sb ₄ O ₅ Cl ₂ nanosheet composite anodes for efficient sodium-ion storage. Electrochimica Acta, 2022, 436, 141429.	2.6	3
5696	Electrochemical energy storage systems. , 2023, , 259-282.		2
5697	Identification of oxidation states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si20.svg" display="inline" id="d1e1095"><mml:mi>I ³ </mml:mi></mml:math>-graphyne by computational XPS and NEXAFS spectra. Applied Surface Science, 2023, 609, 155134.	3.1	5
5698	Electrochemical energy storage part I: development, basic principle and conventional systems. , 2023, , 151-188.		3
5699	Bio-inspired micro-reactor mimicking multi-ridged mitochondrial intimae for efficient oxygen reduction. Applied Surface Science, 2023, 610, 155469.	3.1	1
5700	Nanocrystalline I ² -NiS: a redox-mediated electrode in aqueous electrolyte for pseudocapacitor/supercapacitor applications. Physical Chemistry Chemical Physics, 2022, 25, 555-569.	1.3	10
5701	Chemo-mechanical effect of chlorine modified TiO ₂ coatings on LMO. Journal of Materials Chemistry A, 0, , .	5.2	3
5703	Collaboration of two-star nanomaterials: The applications of nanocellulose-based metal organic frameworks composites. Carbohydrate Polymers, 2023, 302, 120359.	5.1	15
5704	One-dimensional curved graphene nanoribbons assisted MoS ₂ nanosheets enhanced electrode material for high-performance supercapacitor. Materials Letters, 2023, 331, 133507.	1.3	2
5705	Perylene-Templated Hierarchically Porous Carbon Fibers as Efficient Supercapacitor Electrode Material. Bulletin of the Chemical Society of Japan, 2022, 95, 1687-1696.	2.0	4

#	ARTICLE	IF	CITATIONS
5707	Interface engineering of hybrid ZnCo ₂ O ₄ @Ni _{2.5} Mo ₆ S _{6.7} structures for flexible energy storage and alkaline water splitting. <i>Chemical Engineering Journal</i> , 2023, 454, 140458.	6.6	17
5708	Amorphous Ni-Co binary hydroxide with super-long cycle life and ultrahigh rate capability as asymmetric supercapacitors. <i>Nanotechnology</i> , 0, , .	1.3	1
5709	In-situ grown of FeCo ₂ O ₄ @ 2D-Carbyne coated nickel foam - A newer nanohybrid electrode for high performance asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2022, 56, 105943.	3.9	9
5710	3D stack tubular mesoporous carbon derived from discarded sesame capsule shells for high-performance supercapacitors. <i>Diamond and Related Materials</i> , 2023, 131, 109562.	1.8	8
5712	Application of a TEMPO-Polypyrrole Polymer for NO _x -Mediated Oxygen Electroreduction. <i>Catalysts</i> , 2022, 12, 1466.	1.6	3
5713	Status on electrodeposited manganese dioxide and biowaste carbon for hybrid capacitors: The case of high-quality oxide composites, mechanisms, and prospects. <i>Journal of Energy Storage</i> , 2022, 56, 106099.	3.9	25
5714	DFT investigation of Li storage behavior of seamless 1 [±] -graphyne and 1 ² -graphyne nanotubes. <i>Materials Today Chemistry</i> , 2022, 26, 101254.	1.7	1
5715	Metal-organic framework-derived advanced oxygen electrocatalysts as air-cathodes for Zn-air batteries: recent trends and future perspectives. <i>Materials Horizons</i> , 2023, 10, 745-787.	6.4	24
5716	Potential and economic viability of green hydrogen production from seawater electrolysis using renewable energy in remote Japanese islands. <i>Renewable Energy</i> , 2023, 202, 1436-1447.	4.3	23
5717	Co,N-doped carbon sheets prepared by a facile method as high-efficiency oxygen reduction catalysts. <i>RSC Advances</i> , 2022, 12, 33981-33987.	1.7	2
5718	Bulk oxygen release inducing cyclic strain domains in Ni-rich ternary cathode materials. <i>Energy Storage Materials</i> , 2023, 55, 691-697.	9.5	3
5719	Incorporation of silver recovery with electricity generation through methanol-Ag ⁺ coupled redox fuel cell. <i>Chemical Engineering and Processing: Process Intensification</i> , 2023, 183, 109222.	1.8	2
5720	Challenges and prospects of in situ nuclear magnetic resonance for electrochemistry devices. <i>Materials Today Energy</i> , 2023, 31, 101210.	2.5	4
5721	Nanostructured mixed transition metal oxide spinels for supercapacitor applications. <i>Dalton Transactions</i> , 2023, 52, 839-856.	1.6	40
5722	Preparation of nickel/copper sulfides from metal-organic frameworks. Applications to energy storage in a symmetric supercapacitor and electrocatalytic methanol oxidation. <i>Journal of Alloys and Compounds</i> , 2023, 938, 168450.	2.8	9
5723	Nitrogenous MOFs and their composites as high-performance electrode material for supercapacitors: Recent advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2023, 478, 214967.	9.5	17
5724	Facile syntheses of Fe ₂ O ₃ -rGO and NiCo-LDH-rGO nanocomposites for high-performance electrochemical capacitors. <i>Journal of Colloid and Interface Science</i> , 2023, 634, 357-368.	5.0	3
5725	Fabrication and Characterization of Semi-Crystalline and Amorphous Dielectric Polymer Films for Energy Storage. <i>Materials Sciences and Applications</i> , 2022, 13, 559-568.	0.3	1

#	ARTICLE	IF	CITATIONS
5726	Recent Developments of Solid-State Electrolytes for All-Solid-State Lithium Metal Batteries. , 2022, , .		0
5727	Recent Advances in Materials for Supercapacitors. , 2022, 1, .		6
5728	Power Sharing Algorithm for a Dual Inverter Fed Open-End Winding Induction Motor in HEVs. , 2022, , .		4
5729	Emerging Chalcogenide Materials for Energy Applications. Chemical Reviews, 2023, 123, 327-378.	23.0	34
5730	Atomic-Level Interface Engineering for Boosting Oxygen Electrocatalysis Performance of Single-Atom Catalysts: From Metal Active Center to the First Coordination Sphere. Advanced Science, 2023, 10, .	5.6	25
5731	Centrifugally Spun PVA/PVP Based B, N, F Doped Carbon Nanofiber Electrodes for Sodium Ion Batteries. Polymers, 2022, 14, 5541.	2.0	6
5732	Electrochemical energy storage and conversion: An overview. Wiley Interdisciplinary Reviews: Energy and Environment, 2023, 12, .	1.9	6
5733	Emerging Trends in Nanomaterials for Photosynthetic Biohybrid Systems. , 2023, 5, 95-115.		21
5735	High-Energy and Long-Lived Zn-MnO ₂ Battery Enabled by a Hydrophobic-Ion-Conducting Membrane. ACS Nano, 2022, 16, 20730-20738.	7.3	14
5736	Different Efforts but Similar Insights in Battery R&D: Electrochemical Impedance Spectroscopy <i>vs</i> Galvanostatic (Constant Current) Technique. Chemistry of Materials, 2022, 34, 10272-10278.	3.2	13
5737	High Dispersion Fe ₂ O ₄ nanoparticles synthesis and its Oxygen Reduction Reaction catalytic performance. ChemistrySelect, 2022, 7, .	0.7	0
5738	Recent Progress on Emerging Applications of Hydrochar. Energies, 2022, 15, 9340.	1.6	15
5739	Building Bridges: Unifying Design and Development Aspects for Advancing Non-Aqueous Redox-Flow Batteries. Batteries, 2023, 9, 4.	2.1	6
5740	Binder-free cupric-ion containing zinc sulfide nanoplates-like structure for flexible energy storage devices. Chemosphere, 2023, 314, 137660.	4.2	16
5741	Activity Enhancement of PtIr Catalysts for Complete Ethanol Oxidation Reaction by Tuning C=O Coupling Abilities. Journal of Physical Chemistry C, 2022, 126, 21650-21666.	1.5	2
5742	Robust hierarchical three dimensional nickel cobalt tungstate-MXene nanocomposite for high performance symmetric coin cell supercapacitors. Journal of Energy Storage, 2022, 56, 106102.	3.9	8
5743	An unprecedented hybrid polyoxometalate based on niobium oligomers: A notable application as redox supercapacitor electrode. Chemical Engineering Journal, 2023, 455, 140511.	6.6	7
5744	Modulating the Morphological Features of Hydrothermally Derived Nickel Cobaltite for Supercapacitor Application: Role of Precursor Anions.. Chemistry - an Asian Journal, 0, , .	1.7	0

#	ARTICLE	IF	CITATIONS
5745	Violet Laser Treatment of Nitrogen-Doped Reduced Graphene Oxide Electrodes and KOH Electrolytes Containing <i>p</i> -Phenylenediamine for High-Performance Supercapacitors. ACS Applied Nano Materials, 2023, 6, 34-43.	2.4	5
5746	Heterointerfacial Cobalt/Zinc Sulfides on Molybdenum Disulfide Coated Carbon Cloth as Self-Supporting Electrode for Flexible Metal-Air Batteries. ChemCatChem, 2023, 15, .	1.8	3
5747	Amorphous alumina supercapacitors with voltage-charging performance. Europhysics Letters, 2023, 141, 36003.	0.7	2
5748	Softening by charging: how collective modes of ionic association in concentrated redoxmer/electrolyte solutions define the structural and dynamic properties in different states of charge. Physical Chemistry Chemical Physics, 2023, 25, 4243-4254.	1.3	1
5749	Collagen processing with mesoscale aggregates as templates and building blocks. Biotechnology Advances, 2023, 63, 108099.	6.0	6
5750	Pd-PdO Nanodomains on Amorphous Ru Metallene Oxide for High-Performance Multifunctional Electrocatalysis. Advanced Materials, 2023, 35, .	11.1	51
5751	Construction of NiCo ₂ O ₄ @CNP core-shell nanocomposites with 2D leaf-like structure for high-performance supercapacitor. Vacuum, 2023, 209, 111812.	1.6	4
5752	LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode modified by nitroxide radical for lithium-ion battery with high capacity. Materials Today Communications, 2023, 34, 105360.	0.9	0
5753	Impact of Post-Synthesis heat treatment avoidance on cobalt carbonate hydroxide as a Battery-Type electrode material. Applied Surface Science, 2023, 615, 156352.	3.1	1
5754	Hardware-Software Complex for Analysis and Diagnostics of Supercapacitors. , 2022, , .		0
5755	Probing the Na ⁺ /Li ⁺ Ions Insertion Mechanism in an Aqueous Mixed-Ion Rechargeable Batteries with NASICON-NaTi ₂ (PO ₄) ₃ Anode and Olivine-LiFePO ₄ Cathode. ChemElectroChem, 0, , .	1.7	0
5756	Novel synthesis of nickel oxide-copper hexacyanoferrate binary hybrid nanocomposite for high-performance supercapacitor application. Journal of Solid State Electrochemistry, 2023, 27, 715-725.	1.2	3
5757	Enhanced Textile Hybrid Energy Storage Device. , 2022, , .		0
5758	Micro alcohol fuel cells towards autonomous electrochemical sensors. , 2023, , 413-469.		0
5759	Graphene based nano-inks for electronic industries. , 2023, , 197-226.		2
5760	Flexible Fiber-Shaped Supercapacitor Based on Hierarchically Co(OH) ₂ Nanosheets@NiCo LDH Nanoworms/3D-Ni Film Coated on the Binary Metal Wire Substrate for Energy Storage Application. Journal of Inorganic and Organometallic Polymers and Materials, 2023, 33, 761-770.	1.9	3
5761	Advanced materials for smart devices. , 2023, , 457-485.		0
5762	Quasi-solid-state electrolytes for pseudocapacitors and batteries. , 2023, , 745-778.		0

#	ARTICLE	IF	CITATIONS
5763	Potential impact of smart-hybrid supercapacitors in novel electronic devices and electric vehicles. , 2023, , 795-850.		1
5764	Surface-modified CuO nanoparticles for photocatalysis and highly efficient energy storage devices. Environmental Science and Pollution Research, 2023, 30, 43320-43330.	2.7	2
5765	How About Vanadium-Based Compounds as Cathode Materials for Aqueous Zinc Ion Batteries?. Advanced Science, 2023, 10, .	5.6	45
5766	Historical perspective of electrochemical energy storage devices. , 2023, , 17-38.		0
5767	Engineering Chemo-Mechanical Properties of Zn Surfaces via Alucone Coating. Journal of Physical Chemistry C, 2023, 127, 2481-2492.	1.5	0
5768	Electron Modulation and Morphology Engineering Jointly Accelerate Oxygen Reaction to Enhance Zn-Air Battery Performance. Advanced Science, 2023, 10, .	5.6	24
5769	Synthesis and applications of biomass-derived carbonaceous materials. , 2023, , 559-578.		0
5770	Research and technology on smart supercapacitors. , 2023, , 101-136.		0
5771	Fundamentals of supercapacitors. , 2023, , 83-100.		1
5772	Other applications of halide perovskites. , 2023, , 301-333.		1
5773	A Comprehensive Compilation of Graphene/Fullerene Polymer Nanocomposites for Electrochemical Energy Storage. Polymers, 2023, 15, 701.	2.0	15
5774	Comparison between supercapacitors and other energy storing electrochemical devices. , 2023, , 673-712.		1
5775	Aligned silver nanoparticles anchored on pyrrolic and pyridinic-nitrogen induced carbon nanotubes for enhanced oxygen reduction reaction. Thin Solid Films, 2023, 769, 139710.	0.8	7
5776	Recent advances in 3D printed electrode materials for electrochemical energy storage devices. Journal of Energy Chemistry, 2023, 81, 272-312.	7.1	16
5777	Trimetallic non-noble NiCoSn alloy as an efficient electrocatalyst towards methanol oxidation and oxygen reduction reactions. Journal of Colloid and Interface Science, 2023, 637, 363-371.	5.0	9
5778	Battery and Fuel Cell Materials. , 2012, , 537-557.		0
5779	Production and Use of Electric Vehicle Batteries. Advances in Computer and Electrical Engineering Book Series, 2022, , 279-304.	0.2	0
5780	Developments of nanocomposites in supercapacitor applications. , 2023, , 209-223.		0

#	ARTICLE	IF	CITATIONS
5781	Supercapacitor and electrochemical techniques: A brief review. Results in Chemistry, 2023, 5, 100885.	0.9	30
5782	Electrode Materials for High Energy Density Li-Ion. , 2023, , 215-243.		0
5783	Advanced Design of Metal Nanoclusters and Single Atoms Embedded in C ₁ N ₁ -Derived Carbon Materials for ORR, HER, and OER. Advanced Functional Materials, 2023, 33, .	7.8	28
5784	Theoretical prediction of novel two-dimensional MA ₂ Z ₄ family for Li/Na battery anodes. 2D Materials, 2023, 10, 025020.	2.0	2
5785	Scalable novel lanthanide-ligand complex for robust flexible micro-supercapacitors. Journal of Power Sources, 2023, 564, 232801.	4.0	0
5786	Engineering building blocks of covalent organic frameworks for boosting capacitive charge storage. Journal of Power Sources, 2023, 564, 232873.	4.0	4
5787	The Lithium-Ion Battery Recycling Process from a Circular Economy Perspectiveâ€”A Review and Future Directions. Energies, 2023, 16, 3228.	1.6	13
5788	Recent progress in conductive electrospun materials for flexible electronics: Energy, sensing, and electromagnetic shielding applications. Chemical Engineering Journal, 2023, 465, 142847.	6.6	21
5789	Recent Progress of 2D Layered Materials in Water-in-Salt/Deep Eutectic Solvent-Based Liquid Electrolytes for Supercapacitors. Nanomaterials, 2023, 13, 1257.	1.9	1
5790	Phosphomolybdic acid embedded into biomass-derived biochar carbon electrode for supercapacitor applications. Journal of Electroanalytical Chemistry, 2023, 936, 117354.	1.9	1
5791	Oxygen Reduction and Hydrogen Evolution Reactions on Zigzag ReS ₂ Nanoribbons. Applied Surface Science, 2023, 618, 156677.	3.1	1
5792	Toward better porous carbon-based electrodes by investigation of the viscoelastic properties of carbon suspension. Chemical Engineering Journal, 2023, 463, 142476.	6.6	1
5793	Heterophase interfacial hybrid//graphene nanoscrolls based high performance lithium-ion hybrid supercapacitor. Electrochimica Acta, 2023, 450, 142266.	2.6	5
5794	Enhancing quantum capacitance of iron sulfide supercapacitor through defect-engineering: A first-principles calculation. Electrochimica Acta, 2023, 449, 142235.	2.6	3
5795	Ion transport phenomena in electrode materials. Chemical Physics Reviews, 2023, 4, 021302.	2.6	0
5796	Nanoarchitectonics of tin telluride: A novel pseudocapacitive material for energy storage application. Materials Chemistry and Physics, 2023, 301, 127698.	2.0	3
5797	Chemical transformations of highly toxic H ₂ S to promising clean energy in MOFs. Coordination Chemistry Reviews, 2023, 485, 215135.	9.5	11
5798	Ir-trimer anchored on the Co-supported Pd nanocrystals Opens the Ultra-efficient Channel on oxygen reduction reaction. Applied Surface Science, 2023, 622, 156857.	3.1	2

#	ARTICLE	IF	CITATIONS
5799	Polyaniline coated sugar derived soft carbon sphere as electrode material in all-solid state symmetric supercapacitor with enhanced cyclic stability. <i>Materials Today Communications</i> , 2023, 35, 105736.	0.9	0
5800	Photoelectrochemical and first-principles investigation on interactions between zinc ion and halide perovskite surface in the aqueous solution. <i>Journal of Molecular Structure</i> , 2023, 1285, 135512.	1.8	1
5801	Molten salt assisted self-activated carbon with controllable architecture for aqueous supercapacitor. <i>Journal of Materials Science and Technology</i> , 2023, 156, 107-117.	5.6	15
5802	Evaluation of the limiting conditions for operation of a large electrochemical energy storage system. <i>Journal of Energy Storage</i> , 2023, 65, 107384.	3.9	4
5803	A new shape-conformable battery concept: The 3D printed injectable battery filled with semi-solid electrodes. <i>Journal of Power Sources</i> , 2023, 570, 233063.	4.0	2
5804	A new carbon allotrope: Biphenylene as promising anode materials for Li-ion and Li O ₂ batteries. <i>Solid State Ionics</i> , 2023, 395, 116214.	1.3	3
5805	Lithium Batteries and the Solid Electrolyte Interphase (SEI)â€”Progress and Outlook. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	98
5806	High-performance nickel molybdate/reduce graphene oxide/polypyrrole ternary nanocomposite as flexible all-solid-state asymmetric supercapacitor. <i>Journal of Energy Storage</i> , 2023, 60, 106670.	3.9	18
5807	Preparation of two-dimensional manganese dioxide nanosheets by stirred media milling and its application as supercapacitor electrode materials. <i>Inorganic Chemistry Communication</i> , 2023, 149, 110440.	1.8	1
5808	Reviewâ€”Supercapacitor Active Material from Recycling. <i>ECS Journal of Solid State Science and Technology</i> , 2023, 12, 024001.	0.9	2
5809	Rational Design of a Bifunctional Peptide Exhibiting Lithium Titanate Oxide and Carbon Nanotube Affinities for Lithium-Ion Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 8579-8589.	4.0	3
5810	Enhanced supercapacitive energy storage performance of metal organic frameworks derived shuttle-like vanadium selenide in K ₃ Fe(CN) ₆ -based redox electrolyte. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	0
5811	CNT yarn based solid state linear supercapacitor with multi-featured capabilities for wearable and implantable devices. <i>Energy Storage Materials</i> , 2023, 57, 136-170.	9.5	24
5812	Biofuel Cells and Biobatteries: Misconceptions, Opportunities, and Challenges. <i>Batteries</i> , 2023, 9, 119.	2.1	9
5813	Atomic Scaled Depth Correlation to the Oxygen Reduction Reaction Performance of Single Atom Ni Alloy to the NiO ₂ Supported Pd Nanocrystal. <i>Advanced Science</i> , 2023, 10, .	5.6	4
5814	Nanointerfaces: Concepts and Strategies for Optical and X-ray Spectroscopic Characterization. <i>ACS Physical Chemistry Au</i> , 0, , .	1.9	0
5815	In Situ Synthesis of ZIF-67 Thin Films Using Low Temperature Chemical Vapor Deposition to Fabricate All-Solid-State Flexible Interdigital in-Planar Microsupercapacitors. <i>International Journal of Energy Research</i> , 2023, 2023, 1-14.	2.2	2
5816	Recent enterprises in high-rate monolithic photo-electrochemical energy harvest and storage devices. <i>Current Opinion in Electrochemistry</i> , 2023, 38, 101243.	2.5	1

#	ARTICLE	IF	CITATIONS
5817	Electron and Ion Transport in Lithium and Lithium-Ion Battery Negative and Positive Composite Electrodes. <i>Chemical Reviews</i> , 2023, 123, 1327-1363.	23.0	62
5818	Cu-MOF-derived CuO/NiO/Ni ₃ (VO ₄) ₂ composite materials with improved electrochemical performance for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	2
5819	Application of Nickel Foam in Electrochemical Systems: A Review. <i>Journal of Electronic Materials</i> , 2023, 52, 2264-2291.	1.0	5
5820	CoS ₂ with carbon shell for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 17758-17768.	3.8	8
5821	Enhancement of the capacitive performance of Ni ₂ CoS ₄ by incorporation of graphitized carbon dots. <i>New Journal of Chemistry</i> , 2023, 47, 5875-5884.	1.4	2
5822	Graphene-guided growth of rare earth-doped Bi ₂ Mo ₂ O ₉ nano self-assembly for enhanced asymmetric supercapacitor device performance. <i>Sustainable Energy and Fuels</i> , 2023, 7, 1522-1536.	2.5	3
5823	Structural, Spectral, and Electrochemical Investigations of a Nitrogen-Doped Nâ€rGO/MgCo ₂ O ₄ Nanocomposite for Supercapacitor Applications. <i>ChemistrySelect</i> , 2023, 8, .	0.7	3
5824	<scp>TiO ₂ </scp> nanoparticle enhanced high temperature proton conductivity in hyperbranched sulfonated polyarylene aliphatic ketones for proton exchange membrane fuel cell applications. <i>Journal of Applied Polymer Science</i> , 2023, 140, .	1.3	5
5825	Tunable polarization-driven superior energy storage performance in PbZrO ₃ thin films. <i>Journal of Advanced Ceramics</i> , 2023, 12, 930-942.	8.9	6
5826	Electrochemical properties of activated carbon from waste coffee grounds with hydrothermal-microwave radiation technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2023, 34, .	1.1	2
5827	Synergistically Enhanced Oxygen Evolution Catalysis with Surface Modified Halloysite Nanotube. <i>Journal of Electrochemical Science and Technology</i> , 2023, 14, 96-104.	0.9	0
5828	The Electric Powerâ€”Energy and Weight. , 2023, , 263-321.		0
5829	Construction of highly stable LiI/LiBr-based nanocomposite cathode via triple confinement mechanisms for lithium-halogen batteries. <i>Chinese Chemical Letters</i> , 2023, 34, 108248.	4.8	0
5830	Fast-charging cathode materials for lithium & sodium ion batteries. <i>Materials Today</i> , 2023, 63, 360-379.	8.3	44
5831	Evaluative study on supercapacitance behavior of polyaniline/polypyrrole â€” metal oxide based composites electrodes: a review. <i>Materials Today Chemistry</i> , 2023, 29, 101424.	1.7	10
5832	An Intelligent Model for Supercapacitors with a Graphene-Based Fractal Electrode to Investigate the Cyclic Voltammetry. <i>Fractal and Fractional</i> , 2023, 7, 218.	1.6	2
5833	Exploring the effect of surface chemistry and particle size of boron-doped diamond powder as catalyst and catalyst support for the oxygen reduction reaction. <i>Electrochimica Acta</i> , 2023, 446, 142121.	2.6	3
5834	Catalytic activity of OH functionalized N-doped graphene in oxygen reduction reaction for fuel cell applications: a DFT study. <i>Applied Physics A: Materials Science and Processing</i> , 2023, 129, .	1.1	7

#	ARTICLE	IF	CITATIONS
5835	Flame-Retardant 3D Covalent Organic Framework for High-Performance Symmetric Supercapacitors. <i>Energy & Fuels</i> , 2023, 37, 4671-4681.	2.5	3
5836	A double-redox aqueous capacitor with high energy output. <i>Journal of Materials Chemistry A</i> , 2023, 11, 6258-6273.	5.2	0
5837	Enhanced Nitrogen Reduction to Ammonia by Surface- and Defect-Engineered Co-catalyst-Modified Perovskite Catalysts under Ambient Conditions and Their Charge Carrier Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 13052-13063.	4.0	5
5838	Alternative Energy Carriers: Unique Interfaces for Electrochemical Hydrogenic Transformations. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	4
5839	Recent Advances in Two-Dimensional MXene for Supercapacitor Applications: Progress, Challenges, and Perspectives. <i>Nanomaterials</i> , 2023, 13, 919.	1.9	10
5840	Strategic use of thermo-chemical processes for plastic waste valorization. <i>Korean Journal of Chemical Engineering</i> , 2023, 40, 693-705.	1.2	5
5841	Complementary Operando Electrochemical Quartz Crystal Microbalance and UV/Vis Spectroscopic Studies: Acetate Effects on Zinc-Manganese Batteries. <i>ChemSusChem</i> , 2023, 16, .	3.6	1
5842	Reduced graphene oxide/ionic liquid composites with tunable interlayer spacing for improved charge/discharge kinetics in supercapacitors. <i>Nanotechnology</i> , 2023, 34, 235402.	1.3	1
5843	Effect of Sulfonated Inorganic Additives Incorporated Hybrid Composite Polymer Membranes on Enhancing the Performance of Microbial Fuel Cells. <i>Polymers</i> , 2023, 15, 1294.	2.0	6
5844	High-performance anodes for aqueous Zn-Iodine batteries from spent Zn-air batteries. <i>Materials Advances</i> , 2023, 4, 1623-1627.	2.6	1
5845	A Composite of Nb ₂ O ₅ and MoO ₂ as a High-Capacity High-Rate Anode Material for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 0, , .	2.4	1
5846	Nanostructured Conducting Polymers and Their Applications in Energy Storage Devices. <i>Polymers</i> , 2023, 15, 1450.	2.0	12
5847	Nanodendrite-promising nanoreinforcement for emerging next-generation nanocomposite. <i>Polymer-Plastics Technology and Materials</i> , 2022, 61, 1503-1520.	0.6	0
5848	±-NiO/Ni(OH) ₂ /AgNP/F-Graphene Composite for Energy Storage Application. <i>ACS Omega</i> , 2023, 8, 10906-10918.	1.6	1
5849	Phosphonated Ionomers of Intrinsic Microporosity with Partially Ordered Structure for High-Temperature Proton Exchange Membrane Fuel Cells. <i>ACS Central Science</i> , 2023, 9, 733-741.	5.3	9
5850	Fuel Cell Products for Sustainable Transportation and Stationary Power Generation: Review on Market Perspective. <i>Energies</i> , 2023, 16, 2748.	1.6	2
5851	Lignin-derived carbon material for electrochemical energy storage applications: Insight into the process-structure-properties-performance correlations. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	1
5852	Sustainable Cauliflower-Patterned CuFe ₂ O ₄ Electrode Production from Chalcopyrite for Supercapacitor Applications. <i>Nanomaterials</i> , 2023, 13, 1105.	1.9	3

#	ARTICLE	IF	CITATIONS
5853	Comparative study on surface oxygenation and widening of carbon fibers made electrochemical electrodes. <i>AIP Advances</i> , 2023, 13, .	0.6	1
5854	Textile PAN Carbon Fibers Cathode for High-Voltage Seawater Batteries. <i>Batteries</i> , 2023, 9, 178.	2.1	1
5855	Transition-Metal Dichalcogenides in Electrochemical Batteries and Solar Cells. <i>Micromachines</i> , 2023, 14, 691.	1.4	8
5856	Metal-organic frameworks for fast electrochemical energy storage: Mechanisms and opportunities. <i>CheM</i> , 2023, 9, 798-822.	5.8	11
5857	æ°Çé”®è#³ç»,è£...æœ%æœææ;†æž¶ææ–™åœ“ç”µåÇ–å¶èf½æ°å~å,“å’Çè½-æÇäçš,,ç”ç©¶è¿à±•. <i>Chinese Science Bulletin</i> , 2023, ,		
5858	Multifunctional Electrochromic Devices for Energy Applications. <i>ACS Energy Letters</i> , 2023, 8, 1870-1886.	8.8	38
5859	An Overview of Renewable Energy Technologies in the Eastern Cape Province in South Africa and the Rural Householdsâ€™ Energy Poverty Coping Strategies. <i>Challenges</i> , 2023, 14, 19.	0.9	2
5861	Sphere-like PdNi Alloy: Unveiling the Twin Functional Properties toward Oxygen Reduction and Temperature-Dependent Methanol Oxidation for Alkaline Direct Methanol Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2023, 11, 5345-5355.	3.2	6
5862	Effect of electrolytes on the performance of graphene oxide anode material for ultracapacitor, Li-ion capacitor, and Li-ion battery: three-in-one approach. <i>Indian Journal of Physics</i> , 0, , .	0.9	0
5863	Optimization of Sesamum indicum oil (sesame oil) derived activated carbon soot for electric double-layer capacitor (EDLC) application. <i>Biomass Conversion and Biorefinery</i> , 0, , .	2.9	3
5864	Metal halide perovskite nanomaterials for battery applications. , 2023, , 537-568.		0
5865	Multiscale architected porous materials for renewable energy conversion and storage. <i>Energy Storage Materials</i> , 2023, 59, 102768.	9.5	6
5866	Computational screening of two-dimensional metal-benzenehexathial for the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 0, , .	2.1	0
5867	Electrochemical Devices. , 2023, , 223-291.		0
5868	Utilization of compressible hydrogels as electrolyte materials for supercapacitor applications. <i>RSC Advances</i> , 2023, 13, 11503-11512.	1.7	1
5869	Linker Aromaticity Reduces Band Dispersion in 2D Conductive Metalâ€“Organic Frameworks. , 2023, 5, 1476-1480.		3
5870	A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors. <i>Advances in Materials Science and Engineering</i> , 2023, 2023, 1-15.	1.0	3
5871	Disulfonated polyarylene ether sulfone membrane for graphitic carbon nitride/zinc oxide based photo-supercapacitors. <i>Electrochimica Acta</i> , 2023, 456, 142415.	2.6	5

#	ARTICLE	IF	CITATIONS
5872	Materials Towards the Development of Li Rechargeable Thin Film Battery. , 2023, 2, 26-40.		3
5873	Development of Cell Free Hearing Aid Device. , 2023, , .		0
5874	Indispensable Assets for Rechargeable World. Resonance - Journal of Science Education, 2023, 28, 577-596.	0.2	1
5875	Electrolyte-philicity of electrode materials. Chemical Communications, 2023, 59, 6969-6986.	2.2	19
5876	Friction generated and Hele-Shaw cell designed facile alternative electrodes for high energy density supercapacitors. Journal of Energy Storage, 2023, 66, 107407.	3.9	1
5877	The impact of physicochemical features of carbon electrodes on the capacitive performance of supercapacitors: a machine learning approach. Scientific Reports, 2023, 13, .	1.6	8
5878	Biodegradable polymer nanocomposites as electrode materials for electrochemical double-layer capacitors and hybrid supercapacitor applications. , 2023, , 311-352.		0
5879	Ceramics for supercapacitors. , 2023, , 157-183.		0
5880	Electrolyte Wettability Issues and Challenges of Electrode Materials in Electrochemical Energy Storage, Energy Conversion, and Beyond. Advanced Science, 2023, 10, .	5.6	16
5882	Graphene and Graphene-Like Materials Derived from Biomass for Supercapacitor Applications. Green Energy and Technology, 2023, , 223-243.	0.4	0
5888	1D, 2D, and 3D Structured Metal Chalcogenides for Supercapacitor Application. , 2023, , 53-82.		0
5892	Coordination environment engineering of single-atom catalysts for the oxygen reduction reaction. Materials Chemistry Frontiers, 2023, 7, 3595-3624.	3.2	6
5895	Recent advances in electrospun fibers based on transition metal oxides for supercapacitor applications: a review. Energy Advances, 2023, 2, 922-947.	1.4	4
5898	Highly Soluble Lithium Nitrate-Containing Additive for Carbonate-Based Electrolyte in Lithium Metal Batteries. ACS Energy Letters, 2023, 8, 2440-2446.	8.8	7
5900	Organic materials as charge hosts for pseudocapacitive energy storage. Sustainable Energy and Fuels, 2023, 7, 2802-2818.	2.5	1
5904	Development of an efficient process for recycling of lithium-ion batteries. AIP Conference Proceedings, 2023, , .	0.3	1
5913	Preliminary design and simulation of a hydrogen-powered regional aircraft. , 2023, , .		1
5916	Progress of Photocapacitors. Chemical Reviews, 2023, 123, 9327-9355.	23.0	11

#	ARTICLE	IF	CITATIONS
5943	Environmental applications of single-atom catalysts based on graphdiyne. Catalysis Science and Technology, 2023, 13, 5154-5174.	2.1	2
5948	Ion modulation engineering toward stable lithium metal anodes. Materials Horizons, 2023, 10, 3218-3236.	6.4	2
5953	Layered structure and property of the ionic liquid-electrode interface. , 2024, , 714-724.		0
5965	Examination of Supercapacitors in Terms of Sustainability in Aviation. , 2023, , 75-81.		0
5980	Developing in situ electron paramagnetic resonance characterization for understanding electron transfer of rechargeable batteries. Nano Research, 2023, 16, 11992-12012.	5.8	3
5982	Polymer blend nanocomposites of fullerene for energy storage. , 2023, , 293-310.		0
5983	Electrophoretic deposition of metal oxide nanostructures. , 2023, , 221-266.		0
5984	Electrochemical synthesis for metal oxide/hydroxide nanostructures. , 2023, , 393-418.		1
5986	Fundamental mechanisms and requirements of energy storage materials. , 2023, , 35-87.		0
5987	Graphene-based polymer blend nanocomposites for energy storage applications. , 2023, , 271-291.		0
5990	MXenes based 2D nanostructures for supercapacitors. , 2023, , 261-303.		0
6002	Cathode Materials in Lithium Ion Batteries as Energy Storage Devices. Materials Horizons, 2023, , 249-268.	0.3	0
6003	Graphene-Based Materials in Energy Harvesting. Materials Horizons, 2023, , 227-247.	0.3	0
6004	Perovskite Manganite Materials: Recent Advancements and Challenges as Cathode for Solid Oxide Fuel Cell Applications. Materials Horizons, 2023, , 163-183.	0.3	1
6016	Electrochemical Energy Storage (EcES). Energy Storage in Batteries. Green Energy and Technology, 2023, , 59-75.	0.4	0
6020	é«~æ^âšâ”çƒ³ăŸ°ă,-ăĈE-ă%„çš„ç”ç©¶è¿)ă±+ăĬă...¶ăœ”é”ĈEç©°æ”ç”μæ±ă,ă°”ç””. Science China Materials, 2023, 366, 3381-3400.		0
6025	Nanoparticles, nanocomposites, green/eco-composites, and hybrid composites and their applications in energy sectors. , 2023, , .		1
6028	3D Printing of Supercapacitor. Materials Horizons, 2024, , 177-196.	0.3	0

#	ARTICLE	IF	CITATIONS
6029	FNM-Based Polymeric Nanocomposites Functionalized for Supercapacitor Applications in Different Industries. <i>Materials Horizons</i> , 2024, , 599-627.	0.3	0
6030	Functionalized Nanomaterials as Supercapacitor Devices: Current Trends and Beyond. <i>Materials Horizons</i> , 2024, , 93-127.	0.3	0
6035	High-entropy materials for electrochemical energy storage devices. <i>Energy Advances</i> , 2023, 2, 1565-1590.	1.4	1
6036	Metal-organic framework and graphene composites: advanced materials for electrochemical supercapacitor applications. <i>Materials Advances</i> , 2023, 4, 4679-4706.	2.6	1
6041	Anion Exchange Membrane Water Electrolysis. , 2023, , 99-146.		0
6043	On Energy Storage Chemistry of Aqueous Zn-Ion Batteries: From Cathode to Anode. <i>Electrochemical Energy Reviews</i> , 2023, 6, .	13.1	7
6058	Green energy and green fuels technologies. , 2024, , 261-312.		0
6081	Plasma-Assisted Nitrogen Doping of Ketjen Black to Promote Electrocatalytic Oxygen Reduction Reaction. , 2023, , .		0
6085	An Analytical Review on State-of-the-Art of Green Hydrogen Technology for Fuel Cell Electric Vehicles Applications. , 2023, , .		0
6087	Precious metal-carbon framework materials for supercapacitors. , 2023, , 35-77.		0
6112	An Electrochemical Perspective of Aqueous Zinc Metal Anode. <i>Nano-Micro Letters</i> , 2024, 16, .	14.4	1
6126	Basic Information of Electrochemical Energy Storage. , 2023, , 17-48.		0
6133	1D - 3D Carbon Nanostructures for Flexible and Ultrathin Batteries. , 2023, , 1-33.		0
6138	Aqueous MnO ₂ /Mn ²⁺ electrochemistry in batteries: progress, challenges, and perspectives. <i>Energy and Environmental Science</i> , 2024, 17, 425-441.	15.6	3
6139	Conductive Metal-Organic Frameworks for Zinc-Air Battery Application: Design Principles, Recent Trends and Prospects. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	0
6141	Introduction of Energy Materials. , 2024, , 1-8.		0
6158	Bioactive and Biodegradable Supercapacitors: Recent Advances, Challenges, and Future Perspectives. , 2023, , 240-261.		0
6171	Iron Oxide-Functionalized Graphene Nanocomposites for Supercapacitor Application. <i>Nanostructure Science and Technology</i> , 2024, , 77-117.	0.1	0

#	ARTICLE	IF	CITATIONS
6174	Algae-based bioelectrochemical systems for bioremediation and co-generation of value-added chemicals. , 2024, , 171-188.		0
6176	Engineering functionalization and properties of graphene quantum dots (GQDs) with controllable synthesis for energy and display applications. Nanoscale, 2024, 16, 3347-3378.	2.8	2
6178	Review of supercapacitors based on graphene: Advancements and limitations. AIP Conference Proceedings, 2024, , .	0.3	0
6189	Recent advances and perspectives of zinc metal-free anodes for zinc ion batteries. International Journal of Minerals, Metallurgy and Materials, 2024, 31, 33-47.	2.4	0
6191	Advanced Electrochemical Energy Sources for Electric and Hybrid Vehicles. Green Energy and Technology, 2024, , 195-218.	0.4	0
6192	Metal electrodes for next-generation rechargeable batteries. , 2024, 1, 79-92.		0
6227	Review on Current Progress of MnO ₂ -Based Nanocomposites for Supercapacitor Application. Advances in Chemical and Materials Engineering Book Series, 2024, , 218-243.	0.2	0
6228	Nanocomposites of Carbon for Supercapacitors. Engineering Materials, 2024, , 301-320.	0.3	0
6230	Supercapacitors. Advances in Chemical and Materials Engineering Book Series, 2024, , 187-204.	0.2	0