Xing-Bin Yan

List of Publications by Year
in descending order

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		8159	16127
252	18,562	76	124
papers	citations	h-index	g-index

255	255	255	19901
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superior Microâ€Supercapacitors Based on Graphene Quantum Dots. Advanced Functional Materials, 2013, 23, 4111-4122.	7.8	595
2	Fabrication of Free-Standing, Electrochemically Active, and Biocompatible Graphene Oxideâ^'Polyaniline and Grapheneâ^'Polyaniline Hybrid Papers. ACS Applied Materials & Interfaces, 2010, 2, 2521-2529.	4.0	472
3	Promising activated carbons derived from waste tea-leaves and their application in high performance supercapacitors electrodes. Electrochimica Acta, 2013, 87, 401-408.	2.6	453
4	Promising Porous Carbon Derived from Celtuce Leaves with Outstanding Supercapacitance and CO₂ Capture Performance. ACS Applied Materials & Interfaces, 2012, 4, 5800-5806.	4.0	407
5	Fast and Large Lithium Storage in 3D Porous VN Nanowiresâ€“Graphene Composite as a Superior Anode Toward Highâ€Performance Hybrid Supercapacitors. Advanced Functional Materials, 2015, 25, 2270-2278.	7.8	379
6	2-Methylimidazole-Derived Niâ€“Co Layered Double Hydroxide Nanosheets as High Rate Capability and High Energy Density Storage Material in Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 15510-15524.	4.0	374
7	Flexible and conductive nanocomposite electrode based on graphene sheets and cotton cloth for supercapacitor. Journal of Materials Chemistry, 2012, 22, 17245.	6.7	350
8	A hybrid supercapacitor based on flower-like Co(OH)₂ and urchin-like VN electrode materials. Journal of Materials Chemistry A, 2014, 2, 12724-12732.	5.2	324
9	Safe and high-rate supercapacitors based on an â€œacetonitrile/water in saltâ€•hybrid electrolyte. Energy and Environmental Science, 2018, 11, 3212-3219.	15.6	297
10	Fabrication of carbon nanofiberâ€“polyaniline composite flexible paper for supercapacitor. Nanoscale, 2011, 3, 212-216.	2.8	275
11	Novel and high-performance asymmetric micro-supercapacitors based on graphene quantum dots and polyaniline nanofibers. Nanoscale, 2013, 5, 6053.	2.8	271
12	A low-cost â€œwater-in-saltâ€•electrolyte for a 2.3 V high-rate carbon-based supercapacitor. Journal of Materials Chemistry A, 2019, 7, 7541-7547.	5.2	260
13	Disordered, Large Interlayer Spacing, and Oxygenâ€Rich Carbon Nanosheets for Potassium Ion Hybrid Capacitor. Advanced Energy Materials, 2019, 9, 1803894.	10.2	238
14	Spontaneous Growth of 3D Framework Carbon from Sodium Citrate for High Energyâ€•and Powerâ€Density and Longâ€Life Sodiumâ€•ion Hybrid Capacitors. Advanced Energy Materials, 2018, 8, 1702409.	10.2	221
15	Recent advances in understanding Liâ€“CO₂ electrochemistry. Energy and Environmental Science, 2019, 12, 887-922.	15.6	215
16	Opening Magnesium Storage Capability of Two-Dimensional MXene by Intercalation of Cationic Surfactant. ACS Nano, 2018, 12, 3733-3740.	7.3	208
17	3D Hierarchical Co/CoOâ€Grapheneâ€Carbonized Melamine Foam as a Superior Cathode toward Longâ€Life Lithium Oxygen Batteries. Advanced Functional Materials, 2016, 26, 1354-1364.	7.8	206
18	A Highâ€Performance Sodiumâ€•ion Hybrid Capacitor Constructed by Metalâ€“Organic Frameworkâ€“Derived Anode and Cathode Materials. Advanced Functional Materials, 2018, 28, 1800757.	7.8	205

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19	Facile Synthesis of Fe₂O₃ Nano-Dots@Nitrogen-Doped Graphene for Supercapacitor Electrode with Ultralong Cycle Life in KOH Electrolyte. ACS Applied Materials & Interfaces, 2016, 8, 9335-9344.	4.0	200
20	Inâ€Plane Microâ€Supercapacitors for an Integrated Device on One Piece of Paper. Advanced Functional Materials, 2017, 27, 1702394.	7.8	195
21	3D nitrogen-doped framework carbon for high-performance potassium ion hybrid capacitor. Energy Storage Materials, 2019, 23, 522-529.	9.5	190
22	NO2 gas sensing with polyaniline nanofibers synthesized by a facile aqueous/organic interfacial polymerization. Sensors and Actuators B: Chemical, 2007, 123, 107-113.	4.0	188
23	Tribological Behavior of UHMWPE Reinforced with Graphene Oxide Nanosheets. Tribology Letters, 2012, 46, 55-63.	1.2	188
24	High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. Journal of Power Sources, 2013, 222, 52-58.	4.0	183
25	Preparation, mechanical properties and biocompatibility of graphene oxide/ultrahigh molecular weight polyethylene composites. European Polymer Journal, 2012, 48, 1026-1033.	2.6	176
26	A super-high energy density asymmetric supercapacitor based on 3D coreâ€“shell structured NiCo-layered double hydroxide@carbon nanotube and activated polyaniline-derived carbon electrodes with commercial level mass loading. Journal of Materials Chemistry A, 2015, 3, 13244-13253.	5.2	166
27	Large-size graphene microsheets as a protective layer for transparent conductive silver nanowire film heaters. Carbon, 2014, 69, 437-443.	5.4	159
28	Superior asymmetric supercapacitor based on Ni-Co oxide nanosheets and carbon nanorods. Scientific Reports, 2014, 4, 3712.	1.6	157
29	Enhancement of capacitance performance of flexible carbon nanofiber paper by adding graphene nanosheets. Journal of Power Sources, 2012, 199, 373-378.	4.0	152
30	Carbon nanofiber bridged two-dimensional titanium carbide as a superior anode for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 14096-14100.	5.2	152
31	Preparation and characterization of electrochemically deposited carbon nitride films on silicon substrate. Journal Physics D: Applied Physics, 2004, 37, 907-913.	1.3	151
32	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
33	Transparent and flexible glucose biosensor via layer-by-layer assembly of multi-wall carbon nanotubes and glucose oxidase. Electrochemistry Communications, 2007, 9, 1269-1275.	2.3	141
34	Porous gâ€C₃N₄ and MXene Dualâ€Confined FeOOH Quantum Dots for Superior Energy Storage in an Ionic Liquid. Advanced Science, 2020, 7, 1901975.	5.6	139
35	A high-temperature flexible supercapacitor based on pseudocapacitive behavior of FeOOH in an ionic liquid electrolyte. Journal of Materials Chemistry A, 2016, 4, 8316-8327.	5.2	138
36	Three-dimensional Ni(OH)2 nanoflakes/graphene/nickel foam electrode with high rate capability for supercapacitor applications. International Journal of Hydrogen Energy, 2014, 39, 7876-7884.	3.8	136

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37	Bifunctional tertiary amine-squaramide catalyzed asymmetric catalytic 1,6-conjugate addition/aromatization of para-quinone methides with oxindoles. Chemical Communications, 2016, 52, 4183-4186.	2.2	135
38	Influence of different buffer gases on synthesis of few-layered graphene by arc discharge method. Applied Surface Science, 2012, 258, 4523-4531.	3.1	127
39	Facile preparation and electrochemical characterization of cobalt oxide/multi-walled carbon nanotube composites for supercapacitors. Journal of Power Sources, 2011, 196, 7841-7846.	4.0	126
40	Fabrication and characterization of poly(vinyl alcohol)/graphene oxide nanofibrous biocomposite scaffolds. Journal of Applied Polymer Science, 2013, 127, 1885-1894.	1.3	124
41	Enhancement in the fluorescence of graphene quantum dots by hydrazine hydrate reduction. Carbon, 2014, 66, 334-339.	5.4	124
42	Study of structure, tribological properties and growth mechanism of DLC and nitrogen-doped DLC films deposited by electrochemical technique. Applied Surface Science, 2004, 236, 328-335.	3.1	120
43	Advances in Manganeseâ€Based Oxides Cathodic Electrocatalysts for Liâ€“Air Batteries. Advanced Functional Materials, 2018, 28, 1704973.	7.8	120
44	Engineering metal organic framework derived 3D nanostructures for high performance hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 292-302.	5.2	118
45	A Dual Carbonâ€Based Potassium Dual Ion Battery with Robust Comprehensive Performance. Small, 2018, 14, e1801836.	5.2	118
46	Candle soot: onion-like carbon, an advanced anode material for a potassium-ion hybrid capacitor. Journal of Materials Chemistry A, 2019, 7, 9247-9252.	5.2	112
47	The Applications of Waterâ€inâ€Salt Electrolytes in Electrochemical Energy Storage Devices. Advanced Functional Materials, 2021, 31, 2006749.	7.8	111
48	Free-Standing Three-Dimensional Graphene/Manganese Oxide Hybrids As Binder-Free Electrode Materials for Energy Storage Applications. ACS Applied Materials & Interfaces, 2014, 6, 11665-11674.	4.0	110
49	Ultra-small, size-controlled Ni(OH)2 nanoparticles: elucidating the relationship between particle size and electrochemical performance for advanced energy storage devices. NPG Asia Materials, 2015, 7, e183-e183.	3.8	109
50	Fabrication of Carbon Nanotubeâ^'Polyaniline Composites via Electrostatic Adsorption in Aqueous Colloids. Journal of Physical Chemistry C, 2007, 111, 4125-4131.	1.5	107
51	Preparation and cytocompatibility of polylactic acid/hydroxyapatite/graphene oxide nanocomposite fibrous membrane. Science Bulletin, 2012, 57, 3051-3058.	1.7	107
52	Synergistic Effect between Ultra-Small Nickel Hydroxide Nanoparticles and Reduced Graphene Oxide sheets for the Application in High-Performance Asymmetric Supercapacitor. Scientific Reports, 2015, 5, 11095.	1.6	106
53	Identifying pseudocapacitance of Fe₂O₃ in an ionic liquid and its application in asymmetric supercapacitors. Journal of Materials Chemistry A, 2014, 2, 14550-14556.	5.2	105
54	Silica-grafted ionic liquids for revealing the respective charging behaviors of cations and anions in supercapacitors. Nature Communications, 2017, 8, 2188.	5.8	103

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55	Optimization of Organic/Water Hybrid Electrolytes for Highâ€Rate Carbonâ€Based Supercapacitor. Advanced Functional Materials, 2019, 29, 1904136.	7.8	102
56	A sodium perchlorate-based hybrid electrolyte with high salt-to-water molar ratio for safe 2.5â€V carbon-based supercapacitor. Energy Storage Materials, 2019, 23, 603-609.	9.5	102
57	Engineering the Electrochemical Capacitive Properties of Microsupercapacitors Based on Graphene Quantum Dots/MnO₂ Using Ionic Liquid Gel Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 25378-25389.	4.0	99
58	Field emission from ordered carbon nanotube-ZnO heterojunction arrays. Carbon, 2008, 46, 753-758.	5.4	97
59	Study on the electrochemical properties of cubic ordered mesoporous carbon for supercapacitors. Journal of Power Sources, 2011, 196, 10472-10478.	4.0	97
60	Facile Preparation of One-Dimensional Wrapping Structure: Graphene Nanoscroll-Wrapped of Fe₃O₄ Nanoparticles and Its Application for Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 9890-9896.	4.0	96
61	CeO_x-Decorated Hierarchical NiCo₂S₄ Hollow Nanotubes Arrays for Enhanced Oxygen Evolution Reaction Electrocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 39841-39847.	4.0	95
62	Catalytic performances of NiOâ€“CeO2 for the reforming of methane with CO2 and O2. Fuel, 2006, 85, 2243-2247.	3.4	94
63	Enhanced electrochemical properties of graphene-wrapped ZnMn₂O₄nanorods for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 149-154.	5.2	94
64	Watchbandâ€Like Supercapacitors with Body Temperature Inducible Shape Memory Ability. Advanced Energy Materials, 2016, 6, 1600763.	10.2	94
65	Effects of concentration and temperature of EMIMBF4/acetonitrile electrolyte on the supercapacitive behavior of graphene nanosheets. Journal of Materials Chemistry, 2012, 22, 8853.	6.7	92
66	Synthesis of a graphene oxideâ€“polyacrylic acid nanocomposite hydrogel and its swelling and electroresponsive properties. RSC Advances, 2013, 3, 12751.	1.7	92
67	Dispersing and Functionalizing Multiwalled Carbon Nanotubes in TiO2Sol. Journal of Physical Chemistry B, 2006, 110, 25844-25849.	1.2	91
68	Activated carbon produced from paulownia sawdust for high-performance CO2 sorbents. Chinese Chemical Letters, 2014, 25, 929-932.	4.8	89
69	The Charge Storage Mechanisms of 2D Cationâ€Intercalated Manganese Oxide in Different Electrolytes. Advanced Energy Materials, 2019, 9, 1802707.	10.2	89
70	Porous niobium nitride as a capacitive anode material for advanced Li-ion hybrid capacitors with superior cycling stability. Journal of Materials Chemistry A, 2016, 4, 9760-9766.	5.2	84
71	Recent Advances in Dualâ€Functional Devices Integrating Solar Cells and Supercapacitors. Solar Rrl, 2017, 1, 1700002.	3.1	83
72	Morphology Engineering of Co₃O₄ Nanoarrays as Free-Standing Catalysts for Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2016, 8, 23713-23720.	4.0	82

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73	3D high-density MXene@MnO₂ microflowers for advanced aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2020, 8, 24635-24644.	5.2	82
74	Salty Ice Electrolyte with Superior Ionic Conductivity Towards Lowâ€Temperature Aqueous Zinc Ion Hybrid Capacitors. Advanced Functional Materials, 2021, 31, 2101277.	7.8	81
75	Three-Dimensional Graphene/Polyaniline Composite Hydrogel as Supercapacitor Electrode. Journal of the Electrochemical Society, 2012, 159, A1702-A1709.	1.3	80
76	A rechargeable aqueous zinc/sodium manganese oxides battery with robust performance enabled by Na2SO4 electrolyte additive. Energy Storage Materials, 2021, 38, 299-308.	9.5	79
77	An Asymmetric Supercapacitor with Both Ultra-High Gravimetric and Volumetric Energy Density Based on 3D Ni(OH)₂/MnO₂@Carbon Nanotube and Activated Polyaniline-Derived Carbon. ACS Applied Materials & Interfaces, 2017, 9, 668-676.	4.0	78
78	Recent advances in dual-carbon based electrochemical energy storage devices. Nano Energy, 2020, 72, 104728.	8.2	78
79	Synthesis of fluorine-doped multi-layered graphene sheets by arc-discharge. RSC Advances, 2012, 2, 6761.	1.7	77
80	Characterization of hydrogenated diamond-like carbon films electrochemically deposited on a silicon substrate. Journal Physics D: Applied Physics, 2004, 37, 2416-2424.	1.3	76
81	Recent Advances of Celluloseâ€Based Materials and Their Promising Application in Sodiumâ€Ion Batteries and Capacitors. Small, 2018, 14, e1802444.	5.2	75
82	Engineering the Electrochemical Capacitive Properties of Graphene Sheets in Ionicâ€Liquid Electrolytes by Correct Selection of Anions. ChemSusChem, 2014, 7, 3053-3062.	3.6	74
83	Coupling effect between ultra-small Mn 3 O 4 nanoparticles and porous carbon microrods for hybrid supercapacitors. Energy Storage Materials, 2017, 6, 53-60.	9.5	72
84	Ion regulation of ionic liquid electrolytes for supercapacitors. Energy and Environmental Science, 2021, 14, 2859-2882.	15.6	71
85	Recent progress of cathode materials for aqueous zinc-ion capacitors: Carbon-based materials and beyond. Carbon, 2021, 185, 126-151.	5.4	71
86	Magnetic and electrochemical properties of CuFe2O4 hollow fibers fabricated by simple electrospinning and direct annealing. CrystEngComm, 2012, 14, 5879.	1.3	70
87	Highly enhanced energy density of supercapacitors at extremely low temperatures. Journal of Power Sources, 2019, 423, 271-279.	4.0	70
88	Facile synthesis of Co and Ce dual-doped Ni3S2 nanosheets on Ni foam for enhanced oxygen evolution reaction. Nano Research, 2020, 13, 2130-2135.	5.8	70
89	Hierarchically porous and nitrogen, sulfur-codoped graphene-like microspheres as a high capacity anode for lithium ion batteries. Chemical Communications, 2015, 51, 2134-2137.	2.2	69
90	Towards the understanding of acetonitrile suppressing salt precipitation mechanism in a water-in-salt electrolyte for low-temperature supercapacitors. Journal of Materials Chemistry A, 2020, 8, 17998-18006.	5.2	69

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91	Mesoporous Ni-doped MnCo₂O₄hollow nanotubes as an anode material for sodium ion batteries with ultralong life and pseudocapacitive mechanism. Journal of Materials Chemistry A, 2016, 4, 18392-18400.	5.2	68
92	Adjusting electrode initial potential to obtain high-performance asymmetric supercapacitor based on porous vanadium pentoxide nanotubes and activated carbon nanorods. Journal of Power Sources, 2015, 279, 358-364.	4.0	66
93	Hybrid Aqueous/Nonaqueous Waterâ€inâ€Bisalt Electrolyte Enables Safe Dual Ion Batteries. Small, 2020, 16, e1905838.	5.2	66
94	Bean pod-like Si@dopamine-derived amorphous carbon@N-doped graphene nanosheet scrolls for high performance lithium storage. Journal of Materials Chemistry A, 2016, 4, 10948-10955.	5.2	66
95	Study on field emission and photoluminescence properties of ZnO/graphene hybrids grown on Si substrates. Materials Chemistry and Physics, 2012, 133, 405-409.	2.0	65
96	Polyelectrolyte functionalization of graphene nanosheets as support for platinum nanoparticles and their applications to methanol oxidation. Electrochimica Acta, 2012, 59, 429-434.	2.6	64
97	TiO₂ embedded in carbon submicron-tablets: synthesis from a metalâ€“organic framework precursor and application as a superior anode in lithium-ion batteries. Chemical Communications, 2015, 51, 11370-11373.	2.2	64
98	The roles of graphene in advanced Li-ion hybrid supercapacitors. Journal of Energy Chemistry, 2018, 27, 43-56.	7.1	64
99	Electrochemical behavior of graphene nanosheets in alkylimidazolium tetrafluoroborate ionic liquid electrolytes: influences of organic solvents and the alkyl chains. Journal of Materials Chemistry, 2011, 21, 13205.	6.7	63
100	Enhancement of Field Emission and Photoluminescence Properties of Graphene-SnO₂ Composite Nanostructures. ACS Applied Materials & Interfaces, 2011, 3, 4299-4305.	4.0	63
101	All-climate aqueous supercapacitor enabled by a deep eutectic solvent electrolyte based on salt hydrate. Journal of Energy Chemistry, 2020, 49, 198-204.	7.1	63
102	All-solid-state flexible microsupercapacitor based on two-dimensional titanium carbide. Chinese Chemical Letters, 2016, 27, 1586-1591.	4.8	62
103	Highâ€Performance and Ultraâ€Stable Aqueous Supercapacitors Based on a Green and Lowâ€Cost Waterâ€inâ€Salt Electrolyte. ChemElectroChem, 2019, 6, 5433-5438.	1.7	60
104	Carbon encapsulated RuO₂ nano-dots anchoring on graphene as an electrode for asymmetric supercapacitors with ultralong cycle life in an ionic liquid electrolyte. Journal of Materials Chemistry A, 2016, 4, 8180-8189.	5.2	59
105	Realizing the Embedded Growth of Large Li₂O₂ Aggregations by Matching Different Metal Oxides for Highâ€Capacity and Highâ€Rate Lithium Oxygen Batteries. Advanced Science, 2017, 4, 1700172.	5.6	59
106	Sprinkling MnFe₂O₄quantum dots on nitrogen-doped graphene sheets: the formation mechanism and application for high-performance supercapacitor electrodes. Journal of Materials Chemistry A, 2018, 6, 9997-10007.	5.2	59
107	The Origin of Electrochemical Actuation of MnO₂/Ni Bilayer Film Derived by Redox Pseudocapacitive Process. Advanced Functional Materials, 2019, 29, 1806778.	7.8	59
108	NH3 and HCl sensing characteristics of polyaniline nanofibers deposited on commercial ceramic substrates using interfacial polymerization. Synthetic Metals, 2010, 160, 2452-2458.	2.1	57

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109	Surface amorphization and deoxygenation of graphene oxide paper by Ti ion implantation. Carbon, 2011, 49, 3141-3147.	5.4	57
110	Controllable synthesis of Mn₃O₄ nanodots@nitrogen-doped graphene and its application for high energy density supercapacitors. Journal of Materials Chemistry A, 2017, 5, 5523-5531.	5.2	57
111	A moisture absorbing gel electrolyte enables aqueous and flexible supercapacitors operating at high temperatures. Journal of Materials Chemistry A, 2019, 7, 20398-20404.	5.2	57
112	An aqueous zinc-ion hybrid super-capacitor for achieving ultrahigh-volumetric energy density. Chinese Chemical Letters, 2021, 32, 926-931.	4.8	57
113	Ordered Mesoporous Silicoboron Carbonitride Materials via Preceramic Polymer Nanocasting. Chemistry of Materials, 2008, 20, 6325-6334.	3.2	56
114	â€œWater in salt/ionic liquidâ€•electrolyte for 2.8ÂV aqueous lithium-ion capacitor. Science Bulletin, 2020, 65, 1812-1822.	4.3	56
115	The controlled growth of porous Î´-MnO2nanosheets on carbon fibers as a bi-functional catalyst for rechargeable lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 10811-10818.	5.2	55
116	The hysteresis phenomenon of the field emission from the graphene film. Applied Physics Letters, 2011, 99, 173104.	1.5	54
117	Three-dimensional carbon framework as a promising anode material for high performance sodium ion storage devices. Chemical Engineering Journal, 2018, 353, 453-459.	6.6	54
118	Revealing the Impact of Oxygen Dissolved in Electrolytes on Aqueous Zinc-Ion Batteries. IScience, 2020, 23, 100995.	1.9	53
119	Three-dimensional hierarchical self-supported NiCo₂O₄/carbon nanotube coreâ€“shell networks as high performance supercapacitor electrodes. RSC Advances, 2015, 5, 7976-7985.	1.7	52
120	Size Effects in Sodium Ion Batteries. Advanced Functional Materials, 2021, 31, 2106047.	7.8	51
121	One dimensional graphene nanoscroll-wrapped MnO nanoparticles for high-performance lithium ion hybrid capacitors. Journal of Materials Chemistry A, 2021, 9, 6352-6360.	5.2	50
122	Potassiumâ€Ion Batteries: Disordered, Large Interlayer Spacing, and Oxygenâ€Rich Carbon Nanosheets for Potassium Ion Hybrid Capacitor (Adv. Energy Mater. 19/2019). Advanced Energy Materials, 2019, 9, 1970069.	10.2	49
123	Fabrication of TiN nanorods by electrospinning and their electrochemical properties. Journal of Solid State Chemistry, 2011, 184, 1333-1338.	1.4	47
124	Facile preparation of large-scale graphene nanoscrolls from graphene oxide sheets by cold quenching in liquid nitrogen. Carbon, 2014, 79, 470-477.	5.4	47
125	Synthesis of MXene-supported layered MoS2 with enhanced electrochemical performance for Mg batteries. Chinese Chemical Letters, 2018, 29, 1313-1316.	4.8	45
126	Fabrication of Three-Dimensional ZnOâ^'Carbon Nanotube (CNT) Hybrids Using Self-Assembled CNT Micropatterns as Framework. Journal of Physical Chemistry C, 2007, 111, 17254-17259.	1.5	44

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127	Rolling up MXene sheets into scrolls to promote their anode performance in lithium-ion batteries. Journal of Energy Chemistry, 2020, 46, 256-263.	7.1	44
128	Facile synthesis of Ag/GNS-g-PAA nanohybrids for antimicrobial applications. Colloids and Surfaces B: Biointerfaces, 2012, 89, 147-151.	2.5	43
129	Preparation of porous BiVO4 fibers by electrospinning and their photocatalytic performance under visible light. RSC Advances, 2013, 3, 20606.	1.7	43
130	Synthesis of Porous Î´â€MnO₂ Submicron Tubes as Highly Efficient Electrocatalyst for Rechargeable Liâ€“O₂ Batteries. ChemSusChem, 2015, 8, 1972-1979.	3.6	42
131	Synthesis and magnetic properties of CoFe2O4 nanoparticles confined within mesoporous silica. Microporous and Mesoporous Materials, 2010, 135, 137-142.	2.2	41
132	Insight into the formation mechanism of graphene quantum dots and the size effect on their electrochemical behaviors. Physical Chemistry Chemical Physics, 2015, 17, 14028-14035.	1.3	41
133	Construction of Supercapacitorâ€Based Ionic Diodes with Adjustable Bias Directions by Using Poly(ionic) Tj ETQq1 1 0.784314 rgBT /	11.1	40
134	A metalâ€“organic framework-derived pseudocapacitive titanium oxide/carbon core/shell heterostructure for high performance potassium ion hybrid capacitors. Journal of Materials Chemistry A, 2020, 8, 16302-16311.	5.2	40
135	Effect of deposition voltage on the microstructure of electrochemically deposited hydrogenated amorphous carbon films. Carbon, 2004, 42, 3103-3108.	5.4	39
136	Magnetic Field Regulating the Graphite Electrode for Excellent Lithium-Ion Batteries Performance. ACS Sustainable Chemistry and Engineering, 2019, 7, 6152-6160.	3.2	39
137	Synthesis of silicon carbide nitride nanocomposite films by a simple electrochemical method. Electrochemistry Communications, 2006, 8, 737-740.	2.3	38
138	Shape-alterable and -recoverable graphene/polyurethane bi-layered composite film for supercapacitor electrode. Journal of Power Sources, 2012, 213, 350-357.	4.0	38
139	Multilayer hybrid films consisting of alternating graphene and titanium dioxide for high-performance supercapacitors. Journal of Materials Chemistry C, 2013, 1, 1413.	2.7	38
140	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithiumâ€Ion Batteries. Particle and Particle Systems Characterization, 2017, 34, 1700141.	1.2	38
141	Crossed carbon skeleton enhances the electrochemical performance of porous silicon nanowires for lithium ion battery anode. Electrochimica Acta, 2018, 280, 86-93.	2.6	38
142	The ethanol sensing property of magnetron sputtered ZnO thin films modified by Ag ion implantation. Sensors and Actuators B: Chemical, 2011, 160, 1499-1503.	4.0	37
143	Temperature dependence of the field emission from the few-layer graphene film. Applied Physics Letters, 2011, 99, 163103.	1.5	37
144	Supercapacitors based on graphene nanosheets using different non-aqueous electrolytes. New Journal of Chemistry, 2013, 37, 2186.	1.4	37

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145	PtNi Alloy Nanoparticles Supported on Polyelectrolyte Functionalized Graphene as Effective Electrocatalysts for Methanol Oxidation. Journal of the Electrochemical Society, 2013, 160, F262-F268.	1.3	37
146	Study of Ni-dopped MnCo2O4 Yolk-Shell Submicron-spheres with Fast Li+ Intercalation Pseudocapacitance As An Anode for High-Performance Lithium Ion Batteries. Electrochimica Acta, 2016, 203, 128-135.	2.6	37
147	A Safe, High-Performance, and Long-Cycle Life Zinc-Ion Hybrid Capacitor Based on Three-Dimensional Porous Activated Carbon. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2020, 36, 1904050-0.	2.2	37
148	Water-repellency and surface free energy of a-C:H films prepared by heat-treatment of polymer precursor. Diamond and Related Materials, 2005, 14, 1342-1347.	1.8	36
149	Electrospinning Synthesis of Mesoporous MnCoNiO_x@Double-Carbon Nanofibers for Sodium-Ion Battery Anodes with Pseudocapacitive Behavior and Long Cycle Life. ACS Applied Materials & Interfaces, 2016, 8, 34342-34352.	4.0	36
150	Solarâ€Thermal Driven Selfâ€Heating of Microâ€Supercapacitors at Low Temperatures. Solar Rrl, 2018, 2, 1800223.	3.1	36
151	Graphene nanosheets supported hollow Pt&CoSn(OH)6 nanospheres as a catalyst for methanol electro-oxidation. Journal of Power Sources, 2012, 205, 239-243.	4.0	35
152	Recent advances in anode materials for sodium - and potassium-ion hybrid capacitors. Current Opinion in Electrochemistry, 2019, 18, 1-8.	2.5	35
153	Preparation of ordered mesoporous silicon carbide monoliths via preceramic polymer nanocasting. Microporous and Mesoporous Materials, 2011, 142, 754-758.	2.2	34
154	Nanotube-like hard carbon as high-performance anode material for sodium ion hybrid capacitors. Science China Materials, 2018, 61, 285-295.	3.5	34
155	Aqueous rocking-chair aluminum-ion capacitors enabled by a self-adaptive electrochemical pore-structure remolding approach. Energy and Environmental Science, 2022, 15, 1131-1143.	15.6	34
156	Hierarchical porous activated carbon produced from spinach leaves as an electrode material for an electric double layer capacitor. New Carbon Materials, 2014, 29, 209-215.	2.9	33
157	Effect of surface area and heteroatom of porous carbon materials on electrochemical capacitance in aqueous and organic electrolytes. Science China Chemistry, 2014, 57, 1570-1578.	4.2	33
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