

Montree Sawangphruk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

145
papers

3,320
citations

32
h-index

51
g-index

238
ext. papers

4,102
ext. citations

5.6
avg, IF

5.96
L-index

#	Paper	IF	Citations
145	Enzyme-immobilized 3D silver nanoparticle/graphene aerogel composites towards biosensors. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125572	4.4	1
144	Regulating the cationic rearrangement of Ni-rich layered oxide cathode for high-performance Li-ion batteries. <i>Journal of Power Sources</i> , 2022 , 537, 231526	8.9	0
143	A Baseline Kinetic Study of Co-Free Layered $\text{Li}_{1+x}(\text{Ni}_{0.5}\text{Mn}_{0.5})\text{O}_2$ Positive Electrode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 110502	3.9	1
142	Insight into the Effect of Ionic Liquid-Based Additives at the Solid Electrolyte Interphase for Lithium Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 040534	3.9	1
141	Core-shell Ni-rich NMC-Nanocarbon cathode from scalable solvent-free mechanofusion for high-performance 18650 Li-ion batteries. <i>Energy Storage Materials</i> , 2021 , 36, 485-495	19.4	6
140	A Novel Core@Shell Structure of NMC811 with Porous Al_2O_3 Nanoparticles Adsorbed By LiTFSI in EMMI-TFSI for 18650 Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 101-101	0	
139	Solar-driven Energy Storage Enhancement of Nickel Hydroxide Nanomaterials. <i>Electrochimica Acta</i> , 2021 , 138654	6.7	1
138	Optimization of the Electrode Properties for High-Performance Ni-Rich Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30643-30652	9.5	2
137	Scalable 18,650 aqueous-based supercapacitors using hydrophobicity concept of anti-corrosion graphite passivation layer. <i>Scientific Reports</i> , 2021 , 11, 13082	4.9	1
136	Controlling the flake size of bifunctional 2D WSe ₂ nanosheets as flexible binders and supercapacitor materials. <i>Nanoscale Advances</i> , 2021 , 3, 653-660	5.1	10
135	Enhancing bifunctional electrocatalysts of hollow Co_3O_4 nanorods with oxygen vacancies towards ORR and OER for LiO_2 batteries. <i>Electrochimica Acta</i> , 2021 , 367, 137490	6.7	17
134	Effect of fluoroethylene carbonate on the transport property of electrolytes towards Ni-rich Li-ion batteries with high safety. <i>Chemical Communications</i> , 2021 , 57, 6732-6735	5.8	1
133	The electrochemistry of size dependent graphene liquid phase exfoliation: capacitance and ionic transport. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11616-11623	3.6	3
132	Factors that Affect Capacity in the Low Voltage Kinetic Hindrance Region of Ni-Rich Positive Electrode Materials and Diffusion Measurements from a Reinvented Approach. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070503	3.9	6
131	Reducing the Energy Band Gap of Cobalt Hydroxide Nanosheets with Silver Atoms and Enhancing Their Electrical Conductivity with Silver Nanoparticles. <i>ACS Omega</i> , 2021 , 6, 20804-20811	3.9	3
130	Voltage-Dependent Li Kinetics Leads to Charge-Discharge Asymmetry in Co-Free Li-Rich $\text{Li}_{1.12}\text{Ni}_{0.44}\text{Mn}_{0.44}\text{O}_2$ under Conditions without Transition Metal Migration. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 090564	3.9	1
129	Revealing the impacts of oxygen defects on Zn^{2+} storage performance in V_2O_5 . <i>Materials Today Energy</i> , 2021 , 21, 100824	7	10

128	Correlating Cation Mixing with Li Kinetics: Electrochemical and Li Diffusion Measurements on Li-Deficient LiNiO ₂ and Li-Excess LiNi _{0.5} Mn _{0.5} O ₂ . <i>Journal of the Electrochemical Society</i> , 2021 , 168, 090533	3.9	3
127	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	6.7	3
126	First-Principle study of lithium polysulfide adsorption on heteroatom doped graphitic carbon nitride for Lithium-Sulfur batteries. <i>Applied Surface Science</i> , 2021 , 565, 150378	6.7	6
125	Synthesis of nickel hydroxide/delaminated-Ti ₃ C ₂ MXene nanosheets as promising anode material for high performance lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2020 , 842, 155812	5.7	23
124	Graphite/Graphene Composites from the Recovered Spent Zn/Carbon Primary Cell for the High-Performance Anode of Lithium-Ion Batteries. <i>ACS Omega</i> , 2020 , 5, 15240-15246	3.9	7
123	Influence of structures and functional groups of carbon on working potentials of supercapacitors in neutral aqueous electrolyte: In situ differential electrochemical mass spectrometry. <i>Journal of Energy Storage</i> , 2020 , 29, 101379	7.8	8
122	NiCo-LDH/Ti ₃ C ₂ MXene hybrid materials for lithium ion battery with high-rate capability and long cycle life. <i>Journal of Energy Chemistry</i> , 2020 , 50, 143-153	12	51
121	Insight into the unusual intercalation/deintercalation phenomena of alkali cations in the layered manganese oxide for electrochemical capacitors. <i>Journal of Power Sources</i> , 2020 , 455, 227969	8.9	2
120	Trimetallic Spinel-Type Cobalt Nickel-Doped Manganese Oxides as Bifunctional Electrocatalysts for Zn-Air Batteries. <i>Batteries and Supercaps</i> , 2020 , 3, 631-637	5.6	5
119	Impact of Al Doping and Surface Coating on the Electrochemical Performances of Li-Rich Mn-Rich Li _{1.11} Ni _{0.33} Mn _{0.56} O ₂ Positive Electrode Material. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 120531	3.9	3
118	Lithium Bond Chemistry at the Interlayer for High-Performance Lithium Sulfur Batteries. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 2757-2757	0	
117	Turning carbon-ZnMnO powder in primary battery waste to be an effective active material for long cycling life supercapacitors: In situ gas analysis. <i>Waste Management</i> , 2020 , 109, 202-211	8.6	4
116	Elucidating the unexpected electrocatalytic activity of nanoscale PdO layers on Pd electrocatalysts towards ethanol oxidation in a basic solution. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1118-1125	5.8	12
115	Confining Li ₂ S ₆ catholyte in 3D graphene sponge with ultrahigh total pore volume and oxygen-containing groups for lithium-sulfur batteries. <i>Carbon</i> , 2020 , 158, 244-255	10.4	17
114	The Influence of Hydration Energy on Alkali-Earth Intercalated Layered Manganese Oxides as Electrochemical Capacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1402-1409	6.1	4
113	High-Performance 18650 Lithium-Ion Batteries Using Ni-Rich Cathode and Silicon Nanoparticles/MCMB Composites. <i>ECS Transactions</i> , 2020 , 97, 207-211	1	
112	Electrochemical Reduction of Carbon Dioxide Using CVD Graphene on Non-noble Metal Foams as Carbo-/Electro-Catalysts. <i>ECS Transactions</i> , 2020 , 97, 301-308	1	
111	The Protection of Lithium Metal Enabled by LiNO ₃ for Lithium-Sulfur Batteries. <i>ECS Transactions</i> , 2020 , 97, 827-834	1	3

110	Graphene Aerogels with Ultrahigh Pore Volume for Organic Dye Adsorption and High-Energy Lithium Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20719-20729	3.9	3
109	Prelithiated perfluoro-ionomer as an alternative binder for the state-of-the-art Ni-rich LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ cathode of next-generation lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20714-20724	13	5
108	Metalloporphyrin-Based Metal-Organic Frameworks on Flexible Carbon Paper for Electrocatalytic Nitrite Oxidation. <i>Chemistry - A European Journal</i> , 2020 , 26, 17399-17404	4.8	4
107	Effect of Intercalants inside Birnessite-Type Manganese Oxide Nanosheets for Sensor Applications. <i>Inorganic Chemistry</i> , 2020 , 59, 15595-15605	5.1	3
106	Single-atoms supported (Fe, Co, Ni, Cu) on graphitic carbon nitride for CO ₂ adsorption and hydrogenation to formic acid: First-principles insights. <i>Applied Surface Science</i> , 2020 , 499, 143928	6.7	24
105	Cobalt oxysulphide/hydroxide nanosheets with dual properties based on electrochromism and a charge storage mechanism.. <i>RSC Advances</i> , 2020 , 10, 14154-14160	3.7	4
104	A universal and facile approach to suppress dendrite formation for a Zn and Li metal anode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9331-9344	13	62
103	Rechargeable Photoactive Zn-Air Batteries Using NiCo ₂ S ₄ as an Efficient Bifunctional Photocatalyst towards OER/ORR at the Cathode. <i>Batteries and Supercaps</i> , 2020 , 3, 541-547	5.6	15
102	Charge storage mechanisms of cobalt hydroxide thin film in ionic liquid and KOH electrolytes for asymmetric supercapacitors with graphene aerogel. <i>Electrochimica Acta</i> , 2019 , 324, 134854	6.7	11
101	Strong cooperative interaction of lithium and hydrogen bonds between 4-aminobenzoic acid modified interlayer and polysulfides for lithium-sulfur batteries. <i>Carbon</i> , 2019 , 155, 553-561	10.4	11
100	mass change and gas analysis of 3D manganese oxide/graphene aerogel for supercapacitors.. <i>RSC Advances</i> , 2019 , 9, 28569-28575	3.7	13
99	Effect of intercalated alkali ions in layered manganese oxide nanosheets as neutral electrochemical capacitors. <i>Chemical Communications</i> , 2019 , 55, 1213-1216	5.8	22
98	Visible Light-Driven Photocatalytic H ₂ Generation and Mechanism Insights into Bi ₂ O ₂ CO ₃ /G-C ₃ N ₄ Z-Scheme Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4795-4804	3.8	53
97	High-performance spinel LiMn ₂ O ₄ @carbon core-shell cathode materials for Li-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1988-1994	5.8	9
96	3D CVD graphene oxide-coated Ni foam as carbo- and electro-catalyst towards hydrogen evolution reaction in acidic solution: In situ electrochemical gas chromatography. <i>Carbon</i> , 2019 , 151, 109-119	10.4	16
95	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	6.7	6
94	Lithium Intercalated-Layered Manganese Oxide and Reduced Graphene Oxide Composite as a Bifunctional Electrocatalyst for ORR and OER. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1543-A1549	3.9	9
93	Photoactive Zn-air batteries using spinel-type cobalt oxide as a bifunctional photocatalyst at the air cathode. <i>Chemical Communications</i> , 2019 , 55, 5855-5858	5.8	22

92	Addition of Redox Additive to Ionic Liquid Electrolyte for High-Performance Electrochemical Capacitors of N-Doped Graphene Aerogel. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A695-A703	3.9	10
91	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	6.7	7
90	A 3D free-standing lithiophilic silver nanowire aerogel for lithium metal batteries without lithium dendrites and volume expansion: in operando X-ray diffraction. <i>Chemical Communications</i> , 2019 , 55, 5689-5692	5.8	22
89	Lightweight Multi-Walled Carbon Nanotube/N-Doped Graphene Aerogel Composite for High-Performance Lithium-Ion Capacitors. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A532-A538	3.9	10
88	Heterogeneous structural defects to prompt charge shuttle in g-C ₃ N ₄ plane for boosting visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118094	21.8	46
87	High-Performance Li-Ion Batteries Using Nickel-Rich Lithium Nickel Cobalt Aluminium Oxide-Nanocarbon Core-Shell Cathode: In Operando X-ray Diffraction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30719-30727	9.5	16
86	SiC _x /TiC _x Nanostructured Material from Ti ₃ SiC ₂ for High Rate Performance of Lithium Storage. <i>ChemistrySelect</i> , 2019 , 4, 7766-7772	1.8	3
85	Thin-Film Photoelectrode of p-Type Ni-Doped Co ₃ O ₄ Nanosheets for a Single Hybrid Energy Conversion and Storage Cell. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2444-A2452	3.9	6
84	High-rate aqueous/ionic liquid dual electrolyte supercapacitor using 3D graphene sponge with an ultrahigh pore volume. <i>Electrochimica Acta</i> , 2019 , 327, 135014	6.7	8
83	A single energy conversion and storage cell of nickel-doped cobalt oxide under UV and visible light illumination. <i>Electrochimica Acta</i> , 2019 , 328, 135120	6.7	4
82	Polyaniline-grafted hydrolysed polyethylene as a dual functional interlayer/separator for high-performance Li-S@C core-shell batteries. <i>Chemical Communications</i> , 2019 , 55, 14263-14266	5.8	9
81	Insight into the effect of additives widely used in lithium-sulfur batteries. <i>Chemical Communications</i> , 2019 , 55, 13951-13954	5.8	17
80	Porous Fe ^{III} Catalysts for Rechargeable Zinc-Air Batteries from an Iron-Imidazolate Coordination Polymer. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4030-4036	8.3	14
79	Oxidative chemical vapour deposition of a graphene oxide carbocatalyst on 3D nickel foam as a collaborative electrocatalyst towards the hydrogen evolution reaction in acidic electrolyte. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1305-1311	5.8	12
78	Charge storage mechanisms of birnessite-type MnO ₂ nanosheets in Na ₂ SO ₄ electrolytes with different pH values: In situ electrochemical X-ray absorption spectroscopy investigation. <i>Electrochimica Acta</i> , 2018 , 273, 17-25	6.7	23
77	A computational study of the catalytic aerobic epoxidation of propylene over the coordinatively unsaturated metal-organic framework Fe(btc): formation of propylene oxide and competing reactions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6726-6734	3.6	10
76	The solution phase aggregation of graphene nanoplates. <i>Applied Materials Today</i> , 2018 , 10, 122-126	6.6	8
75	Layered manganese oxide nanosheets coated on N-doped graphene aerogel for hydrazine detection: Reaction mechanism investigated by in situ electrochemical X-ray absorption spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 808, 124-132	4.1	14

74	Comparing the effect of different surfactants on the aggregation and electrical contact properties of graphene nanoplatelets. <i>Applied Materials Today</i> , 2018 , 12, 163-167	6.6	6
73	Lithium Bond Impact on Lithium Polysulfide Adsorption with Functionalized Carbon Fiber Paper Interlayers for Lithium Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7033-7040	3.8	39
72	Bifunctional electrocatalytic CoNi-doped manganese oxide produced from microdumbbell manganese carbonate towards oxygen reduction and oxygen evolution reactions. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1170-1177	5.8	8
71	High-performance hybrid supercapacitor of mixed-valence manganese oxide/N-doped graphene aerogel nanoflower using an ionic liquid with a redox additive as the electrolyte: In situ electrochemical X-ray absorption spectroscopy. <i>Electrochimica Acta</i> , 2018 , 271, 110-119	6.7	32
70	Enhancing the Charge Storage Capacity of Lithium-Ion Capacitors Using Nitrogen-Doped Reduced Graphene Oxide Aerogel as a Negative Electrode: A Hydrodynamic Rotating Disk Electrode Investigation. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A609-A617	3.9	22
69	Designing an interlayer of reduced graphene oxide aerogel and nitrogen-rich graphitic carbon nitride by a layer-by-layer coating for high-performance lithium sulfur batteries. <i>Carbon</i> , 2018 , 139, 945-953	10.4	26
68	Asymmetric hybrid energy conversion and storage cell of thin Co ₃ O ₄ and N-doped reduced graphene oxide aerogel films. <i>Electrochimica Acta</i> , 2018 , 283, 1125-1133	6.7	4
67	A Novel High-Performance Lithium-Ion Hybrid Capacitor Using Three-Dimensional Nanostructure of N-Doped Graphene Aerogel and Carbon Nanotube Composite. <i>ECS Transactions</i> , 2018 , 85, 449-468	1	1
66	A Single Energy Conversion and Storage Device of Cobalt Oxide Nanosheets and N-Doped Reduced Graphene Oxide Aerogel. <i>ECS Transactions</i> , 2018 , 85, 435-447	1	1
65	Manganese Oxide/Reduced Graphene Oxide Nanocomposite for High-Efficient Electrocatalyst towards Oxygen Reduction Reaction. <i>ECS Transactions</i> , 2018 , 85, 1265-1276	1	2
64	High-Performance Supercapacitors of N-Doped Graphene Aerogel and Its Nanocomposites with Manganese Oxide and Polyaniline. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1430-A1439	3.9	17
63	Novel Hybrid Energy Conversion and Storage Cell with Photovoltaic and Supercapacitor Effects in Ionic Liquid Electrolyte. <i>Scientific Reports</i> , 2018 , 8, 12192	4.9	19
62	Environmentally benign non-fluoro deep eutectic solvent and free-standing rice husk-derived bio-carbon based high-temperature supercapacitors. <i>Electrochimica Acta</i> , 2018 , 286, 148-157	6.7	20
61	Sodium-ion diffusion and charge transfer kinetics of sodium-ion hybrid capacitors using bio-derived hierarchical porous carbon. <i>Electrochimica Acta</i> , 2018 , 286, 55-64	6.7	13
60	Transparent supercapacitors of 2 nm ruthenium oxide nanoparticles decorated on a 3D nitrogen-doped graphene aerogel. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1799-1805	5.8	14
59	A new energy conversion and storage device of cobalt oxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 36-40	13	14
58	Rational design and synthesis of SiC/TiC@SiO ₂ /TiO ₂ porous core-shell nanostructure with excellent Li-ion storage performance. <i>Chemical Communications</i> , 2018 , 54, 12622-12625	5.8	7
57	Electrolyte-Induced Electrical Disconnection between Single Graphene Nanoplatelets and an Electrode. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5822-5826	6.4	2

56	Facile Electrodeposition of Ni-Cu-P Dendrite Nanotube Films with Enhanced Hydrogen Evolution Reaction Activity and Durability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35224-35233	9.5	44
55	3D CVD Graphene Oxide on Ni Foam towards Hydrogen Evolution Reaction in Acid Electrolytes at Different Concentrations. <i>ECS Transactions</i> , 2018 , 85, 49-63	1	2
54	Insight into the effect of intercalated alkaline cations of layered manganese oxides on the oxygen reduction reaction and oxygen evolution reaction. <i>Chemical Communications</i> , 2018 , 54, 8575-8578	5.8	22
53	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	2.6	2
52	Hybrid energy storage of battery-type nickel hydroxide and supercapacitor-type graphene: redox additive and charge storage mechanism. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 275-279	5.8	21
51	Charge storage mechanisms of electrospun Mn ₃ O ₄ nanofibres for high-performance supercapacitors. <i>RSC Advances</i> , 2017 , 7, 9958-9963	3.7	39
50	Hybrid Energy Storage of Ni(OH) ₂ -coated N-doped Graphene Aerogel//N-doped Graphene Aerogel for the Replacement of NiCd and NiMH Batteries. <i>Scientific Reports</i> , 2017 , 7, 1124	4.9	29
49	Core-double shell sulfur@carbon black nanosphere@oxidized carbon nanosheet composites as the cathode materials for Li-S batteries. <i>Electrochimica Acta</i> , 2017 , 237, 78-86	6.7	16
48	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	6.7	17
47	A new concept of charging supercapacitors based on the photovoltaic effect. <i>Chemical Communications</i> , 2017 , 53, 709-712	5.8	45
46	A proton-hopping charge storage mechanism of ionic one-dimensional coordination polymers for high-performance supercapacitors. <i>Chemical Communications</i> , 2017 , 53, 11786-11789	5.8	8
45	Antifungal activity of water-stable copper-containing metal-organic frameworks. <i>Royal Society Open Science</i> , 2017 , 4, 170654	3.3	47
44	Electrospinning of Carbon@Carbon Fiber Composites for High-Performance Single Coin-Cell Supercapacitors: Effects of Carbon Additives and Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10078-10086	3.9	12
43	Turning Carbon Black to Hollow Carbon Nanospheres for Enhancing Charge Storage Capacities of LiMnO ₂ , LiCoO ₂ , LiNiMnCoO ₂ , and LiFePO ₄ Lithium-Ion Batteries. <i>ACS Omega</i> , 2017 , 2, 3730-3738	3.9	14
42	Collaborative design of Li-S batteries using 3D N-doped graphene aerogel as a sulfur host and graphitic carbon nitride paper as an interlayer. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1759-1765	5.8	28
41	Strong adsorption of lithium polysulfides on ethylenediamine-functionalized carbon fiber paper interlayer providing excellent capacity retention of lithium-sulfur batteries. <i>Carbon</i> , 2017 , 123, 492-501	10.4	32
40	Charge storage performances and mechanisms of MnO nanospheres, nanorods, nanotubes and nanosheets. <i>Nanoscale</i> , 2017 , 9, 13630-13639	7.7	61
39	Improving Single-Carbon-Nanotube-Electrode Contacts Using Molecular Electronics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3908-3911	6.4	10

38	Insight into charge storage mechanisms of layered MnO ₂ nanosheets for supercapacitor electrodes: In situ electrochemical X-ray absorption spectroscopy. <i>Electrochimica Acta</i> , 2017 , 249, 26-32	6.7	46
37	High-Performance Supercapacitors of N-Doped Graphene Aerogel and Its Nanocomposites. <i>ECS Transactions</i> , 2017 , 77, 591-606	1	3
36	Insight into the charge storage mechanism and capacity retention fading of MnCo ₂ O ₄ used as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2017 , 258, 1008-1015	6.7	33
35	Decoration of graphene oxide nanosheets with amino silane-functionalized silica nanoparticles for enhancing thermal and mechanical properties of polypropylene nanocomposites. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	8
34	Chemical Adsorption and Physical Confinement of Polysulfides with the Janus-faced Interlayer for High-performance Lithium-Sulfur Batteries. <i>Scientific Reports</i> , 2017 , 7, 17703	4.9	22
33	Impedimetric Sensor of ss-HSDNA/Reduced Graphene Oxide Aerogel Electrode toward Aflatoxin B1 Detection: Effects of Redox Mediator Charges and Hydrodynamic Diffusion. <i>Analytical Chemistry</i> , 2017 , 89, 13283-13289	7.8	35
32	High-performance energy storage of Ag-doped Co(OH) ₂ -coated graphene paper: In situ electrochemical X-ray absorption spectroscopy. <i>Electrochimica Acta</i> , 2017 , 252, 91-100	6.7	17
31	Enhancing the charge-storage performance of N-doped reduced graphene oxide aerogel supercapacitors by adsorption of the cationic electrolytes with single-strand deoxyribonucleic acid. <i>Carbon</i> , 2016 , 109, 314-320	10.4	33
30	Electrocatalytic oxidation of ethylene glycol on palladium coated on 3D reduced graphene oxide aerogel paper in alkali media: Effects of carbon supports and hydrodynamic diffusion. <i>Electrochimica Acta</i> , 2016 , 212, 237-246	6.7	26
29	New Routes to Functionalize Carbon Black for Polypropylene Nanocomposites. <i>Langmuir</i> , 2016 , 32, 7917-7928	4.28	21
28	CO ₂ hydrogenation to methanol using Cu-Zn catalyst supported on reduced graphene oxide nanosheets. <i>Journal of CO₂ Utilization</i> , 2016 , 16, 104-113	7.6	79
27	High-Performance Asymmetric Supercapacitors of MnCoO Nanofibers and N-Doped Reduced Graphene Oxide Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34045-34053	9.5	137
26	Charge storage mechanisms of manganese oxide nanosheets and N-doped reduced graphene oxide aerogel for high-performance asymmetric supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 37560	4.9	75
25	Antibacterial and Antifungal Activities of Graphene Nanosheets 2016 , 71-80		
24	Turning conductive carbon nanospheres into nanosheets for high-performance supercapacitors of MnO ₂ nanorods. <i>Chemical Communications</i> , 2016 , 52, 2585-8	5.8	39
23	N-doped reduced graphene oxide aerogel coated on carboxyl-modified carbon fiber paper for high-performance ionic-liquid supercapacitors. <i>Carbon</i> , 2016 , 102, 455-461	10.4	125
22	High-Performance Supercapacitor of Functionalized Carbon Fiber Paper with High Surface Ionic and Bulk Electronic Conductivity: Effect of Organic Functional Groups. <i>Electrochimica Acta</i> , 2015 , 176, 504-513	6.7	67
21	In situ synthesis of permselective zeolitic imidazolate framework-8/graphene oxide composites: rotating disk electrode and Langmuir adsorption isotherm. <i>RSC Advances</i> , 2015 , 5, 46617-46623	3.7	36

20	High-performance supercapacitor of electrodeposited porous 3D polyaniline nanorods on functionalized carbon fiber paper: Effects of hydrophobic and hydrophilic surfaces of conductive carbon paper substrates. <i>Materials Today Communications</i> , 2015 , 4, 176-185	2.5	18
19	Solid-type supercapacitor of reduced graphene oxide-metal organic framework composite coated on carbon fiber paper. <i>Electrochimica Acta</i> , 2015 , 157, 69-77	6.7	133
18	Effect of alkaline electrolytes on the charge storage capacity and morphology of porous layered double cobalt hydroxide-coated graphene supercapacitor electrodes. <i>RSC Advances</i> , 2014 , 4, 56876-56882	3.7	25
17	Silver nanodendrite modified graphene rotating disk electrode for nonenzymatic hydrogen peroxide detection. <i>Carbon</i> , 2014 , 70, 287-294	10.4	28
16	Permselective properties of graphene oxide and reduced graphene oxide electrodes. <i>Carbon</i> , 2014 , 68, 662-669	10.4	27
15	Palladium nanoparticles decorated on reduced graphene oxide rotating disk electrodes toward ultrasensitive hydrazine detection: effects of particle size and hydrodynamic diffusion. <i>Analytical Chemistry</i> , 2014 , 86, 12272-8	7.8	76
14	High-performance supercapacitors based on silver nanoparticle-polyaniline-graphene nanocomposites coated on flexible carbon fiber paper. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9630	13	177
13	Ultraporous Palladium Supported on Graphene-Coated Carbon Fiber Paper as a Highly Active Catalyst Electrode for the Oxidation of Methanol. <i>Fuel Cells</i> , 2013 , 13, n/a-n/a	2.9	4
12	Ultraporous palladium on flexible graphene-coated carbon fiber paper as high-performance electro-catalysts for the electro-oxidation of ethanol. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1030-1034	12	62
11	High-performance supercapacitor of manganese oxide/reduced graphene oxide nanocomposite coated on flexible carbon fiber paper. <i>Carbon</i> , 2013 , 60, 109-116	10.4	209
10	Enhanced mechanical properties and bactericidal activity of polypropylene nanocomposite with dual-function silica-silver core-shell nanoparticles. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 4339-4349	3.9	11
9	Effects of pore diameters on the pseudocapacitive property of three-dimensionally ordered macroporous manganese oxide electrodes. <i>Materials Letters</i> , 2012 , 68, 230-233	3.3	28
8	Synthesis and antifungal activity of reduced graphene oxide nanosheets. <i>Carbon</i> , 2012 , 50, 5156-5161	10.4	139
7	Direct electrodeposition and superior pseudocapacitive property of ultrahigh porous silver-incorporated polyaniline films. <i>Materials Letters</i> , 2012 , 87, 142-145	3.3	38
6	Facile Synthesis of Highly Dispersed Silica-Silver Core-Shell Nanospheres for Enzymeless Hydrogen Peroxide Detection. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, F5		4
5	Surfactant-assisted electrodeposition and improved electrochemical capacitance of silver-doped manganese oxide pseudocapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2623-2629	2.6	36
4	Localized electrodeposition of praseodymium oxide on boron-doped diamond. <i>Diamond and Related Materials</i> , 2010 , 19, 885-888	3.5	9
3	Permselective properties of polystyrene opal films at diamond electrode surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 7856-64	3.6	8

2	Promotion of Direct Methanol Electro-oxidation by Ru Terraces on Pt by using a Reversed Spillover Mechanism. <i>ChemCatChem</i> , 2010 , 2, 1089-1095	5.2	32
1	Fabrication of TiO ₂ and Ag wires and arrays using opal polystyrene crystal templates. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1484		2