

Xiaogang Zhang

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L-index

#	Paper	IF	Citations
217	Ultrathin Mesoporous NiCo ₂ O ₄ Nanosheets Supported on Ni Foam as Advanced Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 4592-4597	15.6	1385
216	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <i>Nature Communications</i> , 2015 , 6, 6694	17.4	941
215	Facile synthesis and self-assembly of hierarchical porous NiO nano/micro spherical superstructures for high performance supercapacitors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5772		770
214	Growth of ultrathin mesoporous Co ₃ O ₄ nanosheet arrays on Ni foam for high-performance electrochemical capacitors. <i>Energy and Environmental Science</i> , 2012 , 5, 7883	35.4	725
213	Mesoporous NiCo ₂ O ₄ Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage. <i>Advanced Functional Materials</i> , 2014 , 24, 2630-2637	15.6	663
212	Biomass-derived porous carbon materials with sulfur and nitrogen dual-doping for energy storage. <i>Green Chemistry</i> , 2015 , 17, 1668-1674	10	481
211	Biomass derived carbon for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2411-2428	13	474
210	Flexible Hybrid Paper Made of Monolayer Co ₃ O ₄ Microsphere Arrays on rGO/CNTs and Their Application in Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2012 , 22, 2560-2566	15.6	336
209	Li ₄ Ti ₅ O ₁₂ Nanoparticles Embedded in a Mesoporous Carbon Matrix as a Superior Anode Material for High Rate Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 691-698	21.8	297
208	Self-Sacrifice Template Fabrication of Hierarchical Mesoporous Bi-Component-Active ZnO/ZnFe ₂ O ₄ Sub-Microcubes as Superior Anode Towards High-Performance Lithium-Ion Battery. <i>Advanced Functional Materials</i> , 2015 , 25, 238-246	15.6	286
207	Facile synthesis of hierarchically porous Li ₄ Ti ₅ O ₁₂ microspheres for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6998		249
206	Sulfur embedded in metal organic framework-derived hierarchically porous carbon nanoplates for high performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4490	13	245
205	High performance lithium-sulfur batteries: advances and challenges. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12662-12676	13	235
204	Hierarchical porous carbons with layer-by-layer motif architectures from confined soft-template self-assembly in layered materials. <i>Nature Communications</i> , 2017 , 8, 15717	17.4	231
203	Flexible Sodium-Ion Pseudocapacitors Based on 3D Na ₂ Ti ₃ O ₇ Nanosheet Arrays/Carbon Textiles Anodes. <i>Advanced Functional Materials</i> , 2016 , 26, 3703-3710	15.6	224
202	Flexible Films Derived from Electrospun Carbon Nanofibers Incorporated with Co ₃ O ₄ Hollow Nanoparticles as Self-Supported Electrodes for Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2013 , 23, 3909-3915	15.6	215
201	Prussian blue analogues: a new class of anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5852-5857	13	197

200	An advanced high-energy sodium ion full battery based on nanostructured Na ₂ Ti ₃ O ₇ /VOPO ₄ layered materials. <i>Energy and Environmental Science</i> , 2016 , 9, 3399-3405	35.4	196
199	Confined Self-Assembly in Two-Dimensional Interlayer Space: Monolayered Mesoporous Carbon Nanosheets with In-Plane Orderly Arranged Mesopores and a Highly Graphitized Framework. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2894-2898	16.4	188
198	Chemically tailoring the nanostructure of graphene nanosheets to confine sulfur for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1096-1101	13	170
197	In situ growth of Li ₄ Ti ₅ O ₁₂ on multi-walled carbon nanotubes: novel coaxial nanocables for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 761-767		170
196	Monodisperse Metallic NiCoSe ₂ Hollow Sub-Microspheres: Formation Process, Intrinsic Charge-Storage Mechanism, and Appealing Pseudocapacitance as Highly Conductive Electrode for Electrochemical Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705921	15.6	169
195	3D porous layered double hydroxides grown on graphene as advanced electrochemical pseudocapacitor materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9046	13	165
194	Novel Potassium-Ion Hybrid Capacitor Based on an Anode of KTiO Microscaffolds. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15542-15547	9.5	155
193	Pseudocapacitive behaviours of Na ₂ Ti ₃ O ₇ @CNT coaxial nanocables for high-performance sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21277-21283	13	150
192	Achieving High-Energy-High-Power Density in a Flexible Quasi-Solid-State Sodium Ion Capacitor. <i>Nano Letters</i> , 2016 , 16, 5938-43	11.5	148
191	Polymer-assisted synthesis of a 3D hierarchical porous network-like spinel NiCo ₂ O ₄ framework towards high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11145	13	140
190	Pseudocapacitive materials for electrochemical capacitors: from rational synthesis to capacitance optimization. <i>National Science Review</i> , 2017 , 4, 71-90	10.8	138
189	Synthesis and utilization of RuO ₂ ·xH ₂ O nanodots well dispersed on poly(sodium 4-styrene sulfonate) functionalized multi-walled carbon nanotubes for supercapacitors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 246-252		124
188	Flexible and anti-freezing quasi-solid-state zinc ion hybrid supercapacitors based on pencil shavings derived porous carbon. <i>Energy Storage Materials</i> , 2020 , 28, 307-314	19.4	122
187	Nasicon-Type Surface Functional Modification in Core-Shell LiNiMnCoO@NaTi(PO) Cathode Enhances Its High-Voltage Cycling Stability and Rate Capacity toward Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5498-5510	9.5	115
186	An All-Stretchable-Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , 2017 , 29, 1700898	24	114
185	Mesoporous NiO with various hierarchical nanostructures by quasi-nanotubes/nanowires/nanorods self-assembly: controllable preparation and application in supercapacitors. <i>CrystEngComm</i> , 2011 , 13, 626-632	3.3	113
184	Metal-free energy storage systems: combining batteries with capacitors based on a methylene blue functionalized graphene cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19668-19675	13	112
183	One-pot synthesis of graphene-supported monodisperse Pd nanoparticles as catalyst for formic acid electro-oxidation. <i>Scientific Reports</i> , 2014 , 4, 4501	4.9	109

182	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. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 689-698	13	109
181	Lysine-assisted hydrothermal synthesis of urchin-like ordered arrays of mesoporous Co(OH) ₂ nanowires and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10809		105
180	Preparation and properties of polystyrene nanocomposites with graphite oxide and graphene as flame retardants. <i>Journal of Materials Science</i> , 2013 , 48, 4214-4222	4-3	104
179	Graphene Caging Silicon Particles for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, e1800635	5-1	104
178	Zinc cobalt sulfide nanosheets grown on nitrogen-doped graphene/carbon nanotube film as a high-performance electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11256-11263	13	103
177	Advanced Energy-Storage Architectures Composed of Spinel Lithium Metal Oxide Nanocrystal on Carbon Textiles. <i>Advanced Energy Materials</i> , 2013 , 3, 1484-1489	21.8	101
176	MoS ₂ -Nanosheet-Decorated 2D Titanium Carbide (MXene) as High-Performance Anodes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017 , 4, 1560-1565	4-3	92
175	Few-Layer MXenes Delaminated via High-Energy Mechanical Milling for Enhanced Sodium-Ion Batteries Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39610-39617	9-5	90
174	Facile interfacial synthesis of flower-like hierarchical α -MnO ₂ sub-microspherical superstructures constructed by two-dimension mesoporous nanosheets and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16035		90
173	Graphene/carbon nanotube composite anode for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1498-1503	13	88
172	Absorption mechanism of carbon-nanotube paper-titanium dioxide as a multifunctional barrier material for lithium-sulfur batteries. <i>Nano Research</i> , 2015 , 8, 3066-3074	10	86
171	Three-dimensionally ordered porous TiNb ₂ O ₇ nanotubes: a superior anode material for next generation hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16785-16790	13	83
170	Preparation of ZnCo ₂ O ₄ nanoflowers on a 3D carbon nanotube/nitrogen-doped graphene film and its electrochemical capacitance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21891-21898	13	82
169	Self-sacrifice Template Formation of Hollow Hetero-Ni ₇ S ₆ /Co ₃ S ₄ Nanoboxes with Intriguing Pseudo-capacitance for High-performance Electrochemical Capacitors. <i>Scientific Reports</i> , 2016 , 6, 20973	4-9	82
168	Highly enhanced lithium storage capability of LiNi _{0.5} Mn _{1.5} O ₄ by coating with Li ₂ TiO ₃ for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18256-18262	13	80
167	Large-scale Co ₃ O ₄ nanoparticles growing on nickel sheets via a one-step strategy and their ultra-highly reversible redox reaction toward supercapacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18183		80
166	Flexible metal-organic frameworks as superior cathodes for rechargeable sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16590-16597	13	79
165	Mesoporous NaTi ₂ (PO ₄) ₃ /CMK-3 nanohybrid as anode for long-life Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20659-20666	13	76

164	Preparation of activated carbon from waste <i>Camellia oleifera</i> shell for supercapacitor application. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2179-2186	2.6	76
163	Prussian Blue Analogue with Fast Kinetics Through Electronic Coupling for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20306-20312	9.5	75
162	Novel template-free solvothermal synthesis of mesoporous Li ₄ Ti ₅ O ₁₂ -C microspheres for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14414		75
161	A thin multifunctional coating on a separator improves the cyclability and safety of lithium sulfur batteries. <i>Chemical Science</i> , 2017 , 8, 6619-6625	9.4	74
160	Urchin-like Co ₃ O ₄ microspherical hierarchical superstructures constructed by one-dimension nanowires toward electrochemical capacitors. <i>RSC Advances</i> , 2011 , 1, 1521	3.7	72
159	Anion-Exchange Formation of Hollow NiCo S Nanoboxes from Mesocrystalline Nickel Cobalt Carbonate Nanocubes towards Enhanced Pseudocapacitive Properties. <i>ChemPlusChem</i> , 2016 , 81, 557-563 ^{2,8}		68
158	Crumpled Nitrogen-Doped Graphene for Supercapacitors with High Gravimetric and Volumetric Performances. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22284-91	9.5	67
157	Highly stable lithium ion capacitor enabled by hierarchical polyimide derived carbon microspheres combined with 3D current collectors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23283-23291	13	66
156	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2853-2860	13	66
155	High-Voltage LiNi _{0.45} Cr _{0.1} Mn _{1.45} O ₄ Cathode with Superlong Cycle Performance for Wide Temperature Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1704808	15.6	66
154	Effect of Graphene Modified Cu Current Collector on the Performance of LiTiO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30926-30932	9.5	65
153	Engineering Ultrathin MoS ₂ Nanosheets Anchored on N-Doped Carbon Microspheres with Pseudocapacitive Properties for High-Performance Lithium-Ion Capacitors. <i>Small Methods</i> , 2019 , 3, 1900081 ^{12,8}		64
152	Ad hoc solid electrolyte on acidized carbon nanotube paper improves cycle life of lithium sulfur batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 2544-2551	35.4	64
151	Template-Free Fabrication of Mesoporous Hollow ZnMn ₂ O ₄ Sub-microspheres with Enhanced Lithium Storage Capability towards High-Performance Li-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 657-663	3.1	63
150	From biomolecule to Na ₃ V ₂ (PO ₄) ₃ /nitrogen-decorated carbon hybrids: highly reversible cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18606-18612	13	63
149	Progress on zinc ion hybrid supercapacitors: Insights and challenges. <i>Energy Storage Materials</i> , 2020 , 31, 252-266	19.4	62
148	PAA/PEDOT:PSS as a multifunctional, water-soluble binder to improve the capacity and stability of lithium sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 40650-40655	3.7	62
147	Insights on the Proton Insertion Mechanism in the Electrode of Hexagonal Tungsten Oxide Hydrate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11556-11559	16.4	62

146	Self-Templated Formation of Uniform NiCo ₂ O ₄ Hollow Spheres with Complex Interior Structures for Lithium-Ion Batteries and Supercapacitors. <i>Angewandte Chemie</i> , 2015 , 127, 1888-1892	3.6	61
145	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2015 , 39, 9497-9503	3.6	58
144	Sodium-ion capacitors: Materials, Mechanism, and Challenges. <i>ChemSusChem</i> , 2020 , 13, 2522-2539	8.3	58
143	Raspberry-like Nanostructured Silicon Composite Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18766-18773	9.5	56
142	Flower-like LiMnPO ₄ hierarchical microstructures assembled from single-crystalline nanosheets for lithium-ion batteries. <i>CrystEngComm</i> , 2012 , 14, 4284	3.3	55
141	Pencil Drawing Stable Interface for Reversible and Durable Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2006495	15.6	55
140	Progress of Nanostructured Electrode Materials for Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700110	5.9	55
139	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. <i>Nano Energy</i> , 2016 , 28, 232-240	17.1	54
138	Template-free synthesis of ordered mesoporous NiO/poly(sodium-4-styrene sulfonate) functionalized carbon nanotubes composite for electrochemical capacitors. <i>Nano Research</i> , 2009 , 2, 722-732	10.32	54
137	Significant Effect of Pore Sizes on Energy Storage in Nanoporous Carbon Supercapacitors. <i>Chemistry - A European Journal</i> , 2018 , 24, 6127-6132	4.8	51
136	Porous NiCo ₂ O ₄ nanotubes as a noble-metal-free effective bifunctional catalyst for rechargeable LiD ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24309-24314	13	50
135	Enhanced electrochemical performance of sulfur cathodes with a water-soluble binder. <i>RSC Advances</i> , 2015 , 5, 13709-13714	3.7	49
134	3D Printed High-Loading Lithium-Sulfur Battery Toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1909469	15.6	47
133	Enhanced Performance of Aqueous Sodium-Ion Batteries Using Electrodes Based on the NaTi ₂ (PO ₄) ₃ /MWNTs/Na _{0.44} MnO ₂ System. <i>Energy Technology</i> , 2014 , 2, 705-712	3.5	47
132	In Situ Self-Sacrificed Template Synthesis of Fe-N/G Catalysts for Enhanced Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18170-8	9.5	46
131	Nanospace-confinement copolymerization strategy for encapsulating polymeric sulfur into porous carbon for lithium-sulfur batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11165-71	9.5	46
130	Self-supported electrodes of Na ₂ Ti ₃ O ₇ nanoribbon array/graphene foam and graphene foam for quasi-solid-state Na-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5806-5812	13	42
129	A novel aqueous ammonium dual-ion battery based on organic polymers. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11314-11320	13	42

128	Hollow NiCo ₂ S ₄ nanotube arrays grown on carbon textile as a self-supported electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2016 , 6, 9950-9957	3.7	42
127	Capacitance properties of graphite oxide/poly(3,4-ethylene dioxythiophene) composites. <i>Journal of Applied Polymer Science</i> , 2011 , 121, 892-898	2.9	42
126	Self-Sacrificial Template-Directed Synthesis of Metal-Organic Framework-Derived Porous Carbon for Energy-Storage Devices. <i>ChemElectroChem</i> , 2016 , 3, 668-674	4.3	42
125	Enhanced Lithium-Storage Performance from Three-Dimensional MoS ₂ Nanosheets/Carbon Nanotube Paper. <i>ChemElectroChem</i> , 2014 , 1, 1118-1125	4.3	40
124	Superlithiated Polydopamine Derivative for High-Capacity and High-Rate Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38101-38108	9.5	40
123	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006629	24	39
122	Advanced Nanoporous Material-Based QCM Devices: A New Horizon of Interfacial Mass Sensing Technology. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900849	4.6	38
121	Rocking-chair Na-ion hybrid capacitor: a high energy/power system based on Na ₃ V ₂ O ₂ (PO ₄) ₂ F@PEDOT core-shell nanorods. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1030-1037	13	38
120	Fabrication of a sandwich structured electrode for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14280	13	37
119	Hierarchically Porous Multilayered Carbon Barriers for High-Performance Li-S Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 3768-3775	4.8	36
118	Solid/Solid Interfacial Architecturing of Solid Polymer Electrolyte-Based All-Solid-State Lithium-Sulfur Batteries by Atomic Layer Deposition. <i>Small</i> , 2019 , 15, e1903952	11	35
117	Synthesis of hydrogenated TiO ₂ -reduced-graphene oxide nanocomposites and their application in high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9150-9155	13	35
116	Aerosol-Spray Pyrolysis toward Preparation of Nanostructured Materials for Batteries and Supercapacitors. <i>Small Methods</i> , 2018 , 2, 1700272	12.8	35
115	Green Template-Free Synthesis of Mesoporous Ternary CoNiMn Oxide Nanowires Towards High-Performance Electrochemical Capacitors. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 778-787	3.1	34
114	Bifunctional Redox Mediator Supported by an Anionic Surfactant for Long-Cycle Li ₂ O ₂ Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2659-2666	20.1	33
113	Defect-rich and N-doped hard carbon as a sustainable anode for high-energy lithium-ion capacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 567, 75-83	9.3	33
112	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 9511-9519	16.7	32
111	Uniform Hollow Mesoporous Nickel Cobalt Sulfide Microdumbbells: A Competitive Electrode with Exceptional Gravimetric/Volumetric Pseudocapacitance for High-Energy-Density Hybrid Supercapacitors. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600322	6.4	31

110	Self-Template-Directed Metal-Organic Frameworks Network and the Derived Honeycomb-Like Carbon Flakes via Confinement Pyrolysis. <i>Small</i> , 2018 , 14, e1704461	11	31
109	Facile synthesis of nitrogen-doped carbon derived from polydopamine-coated Li ₃ V ₂ (PO ₄) ₃ as cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2014 , 4, 38791-38796	3.7	31
108	Titanium Dioxide/Germanium Core-Shell Nanorod Arrays Grown on Carbon Textiles as Flexible Electrodes for High Density Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 364-372	3.1	31
107	Improved performances of mechanical-activated LiMn ₂ O ₄ /MWNTs cathode for aqueous rechargeable lithium batteries. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1943-1948	2.6	31
106	RbF as a Dendrite-Inhibiting Additive in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20804-20811	9.5	30
105	Nitrogenated Urchin-like Nb ₂ O ₅ Microspheres with Extraordinary Pseudocapacitive Properties for Lithium-Ion Capacitors. <i>ChemElectroChem</i> , 2018 , 5, 1516-1524	4.3	30
104	Biomass-derived porous carbon electrodes for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2020 , 55, 5166-5176	4.3	30
103	Nb ₂ O ₅ nanoparticles encapsulated in ordered mesoporous carbon matrix as advanced anode materials for Li ion capacitors. <i>RSC Advances</i> , 2016 , 6, 71338-71344	3.7	30
102	Design of a Nitrogen-Doped, Carbon-Coated Li Ti O Nanocomposite with a Core-Shell Structure and Its Application for High-Rate Lithium-Ion Batteries. <i>ChemPlusChem</i> , 2014 , 79, 128-133	2.8	29
101	Facile synthesis of Co ₂ P ₂ O ₇ nanorods as a promising pseudocapacitive material towards high-performance electrochemical capacitors. <i>RSC Advances</i> , 2013 , 3, 21558	3.7	29
100	Glycine-assisted hydrothermal synthesis of nanostructured Co _x Ni _{1-x} Al layered triple hydroxides as electrode materials for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1933-1940	2.6	29
99	Microwave-assisted synthesis of organic-inorganic poly(3,4-ethylenedioxythiophene)/RuO ₂ ·xH ₂ O nanocomposite for supercapacitor. <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 1925-1933	2.6	29
98	Emerging Potassium-ion Hybrid Capacitors. <i>ChemSusChem</i> , 2020 , 13, 5837-5862	8.3	29
97	A functional interlayer as a polysulfides blocking layer for high-performance lithium-sulfur batteries. <i>New Journal of Chemistry</i> , 2018 , 42, 1431-1436	3.6	28
96	Hierarchical N-doped hollow carbon microspheres as advanced materials for high-performance lithium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3956-3966	13	27
95	Applications of Conventional Vibrational Spectroscopic Methods for Batteries Beyond Li-Ion. <i>Small Methods</i> , 2018 , 2, 1700332	12.8	27
94	Nanohollow Carbon for Rechargeable Batteries: Ongoing Progresses and Challenges. <i>Nano-Micro Letters</i> , 2020 , 12, 183	19.5	26
93	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19232-19240	16.4	26

92	Highly Conductive and Lightweight Composite Film as Polysulfide Reservoir for High-Performance Lithium Sulfur Batteries. <i>ChemElectroChem</i> , 2017 , 4, 362-368	4.3	25
91	Biomolecule-assisted hydrothermal approach towards synthesis of ultra-thin nanoporous $\text{Fe}(\text{OH})_2$ mesocrystal nanosheets for electrochemical capacitors. <i>CrystEngComm</i> , 2011 , 13, 6130	3.3	25
90	Trends in sputter deposited tungsten oxide structures for electrochromic applications: A review. <i>Ceramics International</i> , 2020 , 46, 23295-23313	5.1	24
89	Analogous graphite carbon sheets derived from corn stalks as high performance sodium-ion battery anodes. <i>RSC Advances</i> , 2016 , 6, 106218-106224	3.7	23
88	Rhombohedral NASICON-structured $\text{Li}_2\text{NaV}_2(\text{PO}_4)_3$ with single voltage plateau for superior lithium storage. <i>RSC Advances</i> , 2014 , 4, 8627	3.7	23
87	High Performance Aqueous Sodium-Ion Capacitors Enabled by Pseudocapacitance of Layered MnO_2 . <i>Energy Technology</i> , 2018 , 6, 2146-2153	3.5	22
86	Enhanced Cycle Performance of Polyimide Cathode Using a Quasi-Solid-State Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22294-22300	3.8	22
85	Confined Pyrolysis of ZIF-8 Polyhedrons Wrapped with Graphene Oxide Nanosheets to Prepare 3D Porous Carbon Heterostructures. <i>Small Methods</i> , 2019 , 3, 1900277	12.8	21
84	Improved flexible Li-ion hybrid capacitors: Techniques for superior stability. <i>Nano Research</i> , 2017 , 10, 4448-4456	10	20
83	Fabrication of flexible nanoporous nitrogen-doped graphene film for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 1653-1663	2.6	19
82	Synthesis and supercapacitance of flower-like $\text{Co}(\text{OH})_2$ hierarchical superstructures self-assembled by mesoporous nanobelts. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1519-1525	2.6	19
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