

# Xiaogang Zhang

## List of Publications by Year in descending order

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226  
papers

20,660  
citations

9234

74  
h-index

10708

138  
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233  
all docs

233  
docs citations

233  
times ranked

19314  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin Mesoporous NiCo <sub>2</sub> O <sub>4</sub> Nanosheets Supported on Ni Foam as Advanced Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , 2012, 22, 4592-4597.	7.8	1,545
2	Formation of nickel cobalt sulfide ball-in-ball hollow spheres with enhanced electrochemical pseudocapacitive properties. <i>Nature Communications</i> , 2015, 6, 6694.	5.8	1,101
3	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.	6.7	830
4	Growth of ultrathin mesoporous Co <sub>3</sub> O <sub>4</sub> nanosheet arrays on Ni foam for high-performance electrochemical capacitors. <i>Energy and Environmental Science</i> , 2012, 5, 7883.	15.6	780
5	Mesoporous NiCo <sub>2</sub> O <sub>4</sub> Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage. <i>Advanced Functional Materials</i> , 2014, 24, 2630-2637.	7.8	718
6	Biomass derived carbon for energy storage devices. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2411-2428.	5.2	632
7	Biomass-derived porous carbon materials with sulfur and nitrogen dual-doping for energy storage. <i>Green Chemistry</i> , 2015, 17, 1668-1674.	4.6	572
8	Flexible Hybrid Paper Made of Monolayer Co <sub>3</sub> O <sub>4</sub> Microsphere Arrays on rGO/CNTs and Their Application in Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2012, 22, 2560-2566.	7.8	362
9	Self-Sacrifice Template Fabrication of Hierarchical Mesoporous Bi-Component Active ZnO/ZnFe <sub>2</sub> O <sub>4</sub> Sub-Microcubes as Superior Anode Towards High-Performance Lithium-Ion Battery. <i>Advanced Functional Materials</i> , 2015, 25, 238-246.	7.8	334
10	Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> 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.	10.2	321
11	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.	9.5	279
12	Flexible Sodium-Ion Pseudocapacitors Based on 3D Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanosheet Arrays/Carbon Textiles Anodes. <i>Advanced Functional Materials</i> , 2016, 26, 3703-3710.	7.8	270
13	High performance lithium-sulfur batteries: advances and challenges. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12662-12676.	5.2	269
14	Facile synthesis of hierarchically porous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> microspheres for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 6998.	6.7	266
15	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.	5.2	266
16	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.	5.8	263
17	An advanced high-energy sodium ion full battery based on nanostructured Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> /VOPO <sub>4</sub> layered materials. <i>Energy and Environmental Science</i> , 2016, 9, 3399-3405.	15.6	247
18	Prussian blue analogues: a new class of anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5852-5857.	5.2	241

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19	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.	7.2	235
20	Flexible Films Derived from Electrospun Carbon Nanofibers Incorporated with $\text{Co}_3\text{O}_4$ Hollow Nanoparticles as Self-Supported Electrodes for Electrochemical Capacitors. <i>Advanced Functional Materials</i> , 2013, 23, 3909-3915.	7.8	233
21	Pseudocapacitive materials for electrochemical capacitors: from rational synthesis to capacitance optimization. <i>National Science Review</i> , 2017, 4, 71-90.	4.6	215
22	Monodisperse Metallic $\text{NiCoSe}_2$ Hollow Sub-Microspheres: Formation Process, Intrinsic Charge-Storage Mechanism, and Appealing Pseudocapitance as Highly Conductive Electrode for Electrochemical Supercapacitors. <i>Advanced Functional Materials</i> , 2018, 28, 1705921.	7.8	214
23	Novel Potassium-Ion Hybrid Capacitor Based on an Anode of $\text{K}_2\text{Ti}_6\text{O}_{13}$ Microscaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15542-15547.	4.0	209
24	3D porous layered double hydroxides grown on graphene as advanced electrochemical pseudocapacitor materials. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9046.	5.2	202
25	Pseudocapacitive behaviours of $\text{Na}_2\text{Ti}_3\text{O}_7$ @CNT coaxial nanocables for high-performance sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21277-21283.	5.2	187
26	In situ growth of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ on multi-walled carbon nanotubes: novel coaxial nanocables for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 761-767.	6.7	182
27	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.	5.2	180
28	Achieving High-Energy High-Power Density in a Flexible Quasi-Solid-State Sodium Ion Capacitor. <i>Nano Letters</i> , 2016, 16, 5938-5943.	4.5	171
29	Polymer-assisted synthesis of a 3D hierarchical porous network-like spinel $\text{NiCo}_2\text{O}_4$ framework towards high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11145.	5.2	160
30	Pencil Drawing Stable Interface for Reversible and Durable Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2006495.	7.8	153
31	Few-Layer MXenes Delaminated via High-Energy Mechanical Milling for Enhanced Sodium-Ion Batteries Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 39610-39617.	4.0	152
32	Graphene Caging Silicon Particles for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1800635.	5.2	146
33	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.	5.2	145
34	Nasicon-Type Surface Functional Modification in Core-Shell $\text{LiNi}_{0.5}\text{Mn}_{0.3}\text{Co}_{0.2}\text{O}_2$ @ $\text{NaTi}_2(\text{PO}_4)_3$ Cathode Enhances Its High-Voltage Cycling Stability and Rate Capacity toward Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5498-5510.	4.0	145
35	An All-Stretchable-Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , 2017, 29, 1700898.	11.1	141
36	Progress on zinc ion hybrid supercapacitors: Insights and challenges. <i>Energy Storage Materials</i> , 2020, 31, 252-266.	9.5	141

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37	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.	5.2	138
38	Synthesis and utilization of RuO <sub>2</sub> ·xH <sub>2</sub> 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.	6.7	136
39	Hierarchical NiCo <sub>2</sub> O <sub>4</sub> 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.	5.2	131
40	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.	6.6	128
41	One-Pot Synthesis of Graphene-Supported Monodisperse Pd Nanoparticles as Catalyst for Formic Acid Electro-oxidation. <i>Scientific Reports</i> , 2014, 4, 4501.	1.6	127
42	Preparation and properties of polystyrene nanocomposites with graphite oxide and graphene as flame retardants. <i>Journal of Materials Science</i> , 2013, 48, 4214-4222.	1.7	125
43	MoS <sub>2</sub> Nanosheet Decorated 2D Titanium Carbide (MXene) as High Performance Anodes for Sodium Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 1560-1565.	1.7	123
44	Mesoporous NiO with various hierarchical nanostructures by quasi-nanotubes/nanowires/nanorod self-assembly: controllable preparation and application in supercapacitors. <i>CrystEngComm</i> , 2011, 13, 626-632.	1.3	121
45	Lysine-assisted hydrothermal synthesis of urchin-like ordered arrays of mesoporous Co(OH) <sub>2</sub> nanowires and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2010, 20, 10809.	6.7	115
46	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.	1.2	109
47	Advanced Energy Storage Architectures Composed of Spinel Lithium Metal Oxide Nanocrystal on Carbon Textiles. <i>Advanced Energy Materials</i> , 2013, 3, 1484-1489.	10.2	109
48	Ge-graphene-carbon nanotube composite anode for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1498-1503.	5.2	105
49	Mesoporous NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /CMK-3 nanohybrid as anode for long-life Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20659-20666.	5.2	99
50	A novel aqueous ammonium dual-ion battery based on organic polymers. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11314-11320.	5.2	99
51	Facile interfacial synthesis of flower-like hierarchical α-MnO <sub>2</sub> sub-microspherical superstructures constructed by two-dimension mesoporous nanosheets and their application in electrochemical capacitors. <i>Journal of Materials Chemistry</i> , 2011, 21, 16035.	6.7	96
52	Three-dimensionally ordered porous TiNb <sub>2</sub> O <sub>7</sub> nanotubes: a superior anode material for next generation hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16785-16790.	5.2	96
53	Prussian Blue Analogue with Fast Kinetics Through Electronic Coupling for Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 20306-20312.	4.0	96
54	Engineering Ultrathin MoS <sub>2</sub> Nanosheets Anchored on N-Doped Carbon Microspheres with Pseudocapacitive Properties for High Performance Lithium Ion Capacitors. <i>Small Methods</i> , 2019, 3, 1900081.	4.6	96

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55	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.	5.8	95
56	Flexible metal-organic frameworks as superior cathodes for rechargeable sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16590-16597.	5.2	94
57	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.	5.2	94
58	A thin multifunctional coating on a separator improves the cyclability and safety of lithium sulfur batteries. <i>Chemical Science</i> , 2017, 8, 6619-6625.	3.7	94
59	Highly enhanced lithium storage capability of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ by coating with $\text{Li}_2\text{TiO}_3$ for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18256-18262.	5.2	93
60	Preparation of $\text{ZnCo}_2\text{O}_4$ 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.	5.2	93
61	High-voltage $\text{LiNi}_{0.45}\text{Cr}_{0.1}\text{Mn}_{1.45}\text{O}_4$ Cathode with Superlong Cycle Performance for Wide Temperature Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1704808.	7.8	91
62	Sodium-ion capacitors: Materials, Mechanism, and Challenges. <i>ChemSusChem</i> , 2020, 13, 2522-2539.	3.6	90
63	Self-sacrifice Template Formation of Hollow Hetero-Ni <sub>7</sub> S <sub>6</sub> /Co <sub>3</sub> S <sub>4</sub> Nanoboxes with Intriguing Pseudo-capacitance for High-performance Electrochemical Capacitors. <i>Scientific Reports</i> , 2016, 6, 20973.	1.6	89
64	Large-scale Co <sub>3</sub> O <sub>4</sub> 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.	6.7	88
65	Progress of Nanostructured Electrode Materials for Supercapacitors. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700110.	2.7	87
66	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.	15.6	82
67	Novel template-free solvothermal synthesis of mesoporous $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -C microspheres for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 14414.	6.7	81
68	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.	1.7	81
69	Effect of Graphene Modified Cu Current Collector on the Performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30926-30932.	4.0	81
70	3D Printed High-Loading Lithium-Sulfur Battery Toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1909469.	7.8	81
71	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-ion Batteries. <i>Advanced Materials</i> , 2021, 33, e2006629.	11.1	80
72	Crumpled Nitrogen-Doped Graphene for Supercapacitors with High Gravimetric and Volumetric Performances. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22284-22291.	4.0	77

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73	Anion-Exchange Formation of Hollow NiCo <sub>2</sub> S <sub>4</sub> Nanoboxes from Mesocrystalline Nickel Cobalt Carbonate Nanocubes towards Enhanced Pseudocapacitive Properties. ChemPlusChem, 2016, 81, 557-563.	1.3	76
74	Lamellar-structured biomass-derived phosphorus- and nitrogen-co-doped porous carbon for high-performance supercapacitors. New Journal of Chemistry, 2015, 39, 9497-9503.	1.4	75
75	Urchin-like Co <sub>3</sub> O <sub>4</sub> microspherical hierarchical superstructures constructed by one-dimension nanowires toward electrochemical capacitors. RSC Advances, 2011, 1, 1521.	1.7	73
76	N-doped carbon foam based three-dimensional electrode architectures and asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 2853-2860.	5.2	70
77	Serosa-Mimetic Nanoarchitecture Membranes for Highly Efficient Osmotic Energy Generation. Journal of the American Chemical Society, 2021, 143, 16206-16216.	6.6	70
78	Advanced Nanoporous Material-Based QCM Devices: A New Horizon of Interfacial Mass Sensing Technology. Advanced Materials Interfaces, 2019, 6, 1900849.	1.9	69
79	Template-Free Fabrication of Mesoporous Hollow ZnMn <sub>2</sub> O <sub>4</sub> Sub-microspheres with Enhanced Lithium Storage Capability towards High-Performance Li-Ion Batteries. Particle and Particle Systems Characterization, 2014, 31, 657-663.	1.2	68
80	Significant Effect of Pore Sizes on Energy Storage in Nanoporous Carbon Supercapacitors. Chemistry - A European Journal, 2018, 24, 6127-6132.	1.7	68
81	Interface miscibility induced double-capillary carbon nanofibers for flexible electric double layer capacitors. Nano Energy, 2016, 28, 232-240.	8.2	67
82	Regulation of SEI Formation by Anion Receptors to Achieve Ultra-Stable Lithium-Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 19232-19240.	7.2	66
83	From biomolecule to Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /nitrogen-decorated carbon hybrids: highly reversible cathodes for sodium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 18606-18612.	5.2	65
84	Raspberry-like Nanostructured Silicon Composite Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 18766-18773.	4.0	65
85	Emerging Potassium-Ion Hybrid Capacitors. ChemSusChem, 2020, 13, 5837-5862.	3.6	65
86	Solid/Solid Interfacial Architecturing of Solid Polymer Electrolyte-Based All-Solid-State Lithium-Sulfur Batteries by Atomic Layer Deposition. Small, 2019, 15, e1903952.	5.2	62
87	Biomass-derived porous carbon electrodes for high-performance supercapacitors. Journal of Materials Science, 2020, 55, 5166-5176.	1.7	60
88	Superlithiated Polydopamine Derivative for High-Capacity and High-Rate Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 38101-38108.	4.0	59
89	Flower-like LiMnPO <sub>4</sub> hierarchical microstructures assembled from single-crystalline nanosheets for lithium-ion batteries. CrystEngComm, 2012, 14, 4284.	1.3	58
90	Hierarchical N-doped hollow carbon microspheres as advanced materials for high-performance lithium-ion capacitors. Journal of Materials Chemistry A, 2020, 8, 3956-3966.	5.2	58

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91	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.	5.0	58
92	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.	5.8	57
93	Enhanced electrochemical performance of sulfur cathodes with a water-soluble binder. <i>RSC Advances</i> , 2015, 5, 13709-13714.	1.7	57
94	Porous NiCo <sub>2</sub> O <sub>4</sub> nanotubes as a noble-metal-free effective bifunctional catalyst for rechargeable Li <sup>+</sup> batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24309-24314.	5.2	57
95	Enhanced Performance of Aqueous Sodium-Ion Batteries Using Electrodes Based on the NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /MWNTs@Na <sub>0.44</sub> MnO <sub>2</sub> System. <i>Energy Technology</i> , 2014, 2, 705-712.	1.8	56
96	<i>In Situ</i> Self-Sacrificed Template Synthesis of Fe-N/G Catalysts for Enhanced Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 18170-18178.	4.0	56
97	Rocking-chair Na-ion hybrid capacitor: a high energy/power system based on Na <sub>3</sub> V <sub>2</sub> O <sub>7</sub> (PO <sub>4</sub> ) <sub>2</sub> F@PEDOT core-shell nanorods. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1030-1037.	5.2	56
98	A Fast Proton-Induced Pseudocapacitive Supercapacitor with High Energy and Power Density. <i>Advanced Functional Materials</i> , 2022, 32, 2107720.	7.8	53
99	Revealing the multiple cathodic and anodic involved charge storage mechanism in an FeSe <sub>2</sub> cathode for aluminium-ion batteries by <i>in situ</i> magnetometry. <i>Energy and Environmental Science</i> , 2022, 15, 311-319.	15.6	53
100	Self-Sacrificial Template-Directed Synthesis of Metal-Organic Framework-Derived Porous Carbon for Energy Storage Devices. <i>ChemElectroChem</i> , 2016, 3, 668-674.	1.7	52
101	Capacitance properties of graphite oxide/poly(3,4-ethylene dioxothiophene) composites. <i>Journal of Applied Polymer Science</i> , 2011, 121, 892-898.	1.3	50
102	Trends in sputter deposited tungsten oxide structures for electrochromic applications: A review. <i>Ceramics International</i> , 2020, 46, 23295-23313.	2.3	50
103	Nanospace-Confinement Copolymerization Strategy for Encapsulating Polymeric Sulfur into Porous Carbon for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 11165-11171.	4.0	49
104	Self-supported electrodes of Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> 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.	5.2	48
105	Aerosol-Spray Pyrolysis toward Preparation of Nanostructured Materials for Batteries and Supercapacitors. <i>Small Methods</i> , 2018, 2, 1700272.	4.6	48
106	Alloying Reaction Confinement Enables High-Capacity and Stable Anodes for Lithium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 9511-9519.	7.3	48
107	RbF as a Dendrite-Inhibiting Additive in Lithium Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20804-20811.	4.0	48
108	Hollow NiCo <sub>2</sub> S <sub>4</sub> nanotube arrays grown on carbon textile as a self-supported electrode for asymmetric supercapacitors. <i>RSC Advances</i> , 2016, 6, 9950-9957.	1.7	47

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109	Nanohollow Carbon for Rechargeable Batteries: Ongoing Progresses and Challenges. Nano-Micro Letters, 2020, 12, 183.	14.4	45
110	Revisiting Charge Storage Mechanism of Reduced Graphene Oxide in Zinc Ion Hybrid Capacitor beyond the Contribution of Oxygen-Containing Groups. Advanced Functional Materials, 2022, 32, .	7.8	45
111	Facile synthesis of Co <sub>2</sub> P <sub>2</sub> O <sub>7</sub> nanorods as a promising pseudocapacitive material towards high-performance electrochemical capacitors. RSC Advances, 2013, 3, 21558.	1.7	44
112	Self-Template-Directed Metal-Organic Frameworks Network and the Derived Honeycomb-Like Carbon Flakes via Confinement Pyrolysis. Small, 2018, 14, e1704461.	5.2	44
113	Enhanced Lithium Storage Performance from Three-Dimensional MoS <sub>2</sub> Nanosheets/Carbon Nanotube Paper. ChemElectroChem, 2014, 1, 1118-1125.	1.7	43
114	Hierarchically Porous Multilayered Carbon Barriers for High-Performance Li-S Batteries. Chemistry - A European Journal, 2018, 24, 3768-3775.	1.7	43
115	A General Approach to Shaped MOF-Containing Aerogels toward Practical Water Treatment Application. Advanced Sustainable Systems, 2020, 4, 2000060.	2.7	43
116	Bifunctional Redox Mediator Supported by an Anionic Surfactant for Long-Cycle Li-O <sub>2</sub> Batteries. ACS Energy Letters, 2017, 2, 2659-2666.	8.8	42
117	Fabrication of a sandwich structured electrode for high-performance lithium-sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 14280.	5.2	40
118	Niobium Tungsten Oxide in a Green Water-in-Salt Electrolyte Enables Ultra-Stable Aqueous Lithium-Ion Capacitors. Nano-Micro Letters, 2020, 12, 168.	14.4	40
119	A functional interlayer as a polysulfides blocking layer for high-performance lithium-sulfur batteries. New Journal of Chemistry, 2018, 42, 1431-1436.	1.4	39
120	Green Template-Free Synthesis of Mesoporous Ternary CoNi-Mn Oxide Nanowires Towards High-Performance Electrochemical Capacitors. Particle and Particle Systems Characterization, 2014, 31, 778-787.	1.2	38
121	Uniform Hollow Mesoporous Nickel Cobalt Sulfide Microdumbbells: A Competitive Electrode with Exceptional Gravimetric/Volumetric Pseudocapacitance for High-Energy-Density Hybrid Supercapacitors. Advanced Electronic Materials, 2017, 3, 1600322.	2.6	38
122	3D Printed Lithium-Metal Full Batteries Based on a High-Performance Three-Dimensional Anode Current Collector. ACS Applied Materials & Interfaces, 2021, 13, 24785-24794.	4.0	38
123	Zinc ion thermal charging cell for low-grade heat conversion and energy storage. Nature Communications, 2022, 13, 132.	5.8	37
124	Nitrogenated Urchin-Like Nb <sub>2</sub> O <sub>5</sub> Microspheres with Extraordinary Pseudocapacitive Properties for Lithium-Ion Capacitors. ChemElectroChem, 2018, 5, 1516-1524.	1.7	36
125	Nanoarchitected porous carbons derived from ZIFs toward highly sensitive and selective QCM sensor for hazardous aromatic vapors. Journal of Hazardous Materials, 2021, 405, 124248.	6.5	36
126	Synthesis of hydrogenated TiO <sub>2</sub> -reduced-graphene oxide nanocomposites and their application in high rate lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 9150-9155.	5.2	35

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127	Glycine-assisted hydrothermal synthesis of nanostructured Co <sub>x</sub> Ni <sub>1-x</sub> Al layered triple hydroxides as electrode materials for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 1933-1940.	1.2	34
128	Facile synthesis of nitrogen-doped carbon derived from polydopamine-coated Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as cathode material for lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 38791-38796.	1.7	34
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