

# Jin-Ping Liu

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/836866/jin-ping-liu-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

176  
papers

18,318  
citations

65  
h-index

134  
g-index

186  
ext. papers

20,166  
ext. citations

8.7  
avg, IF

7.16  
L-index

#	Paper	IF	Citations
176	Recent advances in metal oxide-based electrode architecture design for electrochemical energy storage. <i>Advanced Materials</i> , <b>2012</b> , 24, 5166-80	24	2029
175	Co <sub>3</sub> O <sub>4</sub> Nanowire@MnO <sub>2</sub> ultrathin nanosheet core/shell arrays: a new class of high-performance pseudocapacitive materials. <i>Advanced Materials</i> , <b>2011</b> , 23, 2076-81	24	1176
174	Construction of high-capacitance 3D CoO@polypyrrole nanowire array electrode for aqueous asymmetric supercapacitor. <i>Nano Letters</i> , <b>2013</b> , 13, 2078-85	11.5	1122
173	Battery-Supercapacitor Hybrid Devices: Recent Progress and Future Prospects. <i>Advanced Science</i> , <b>2017</b> , 4, 1600539	13.6	912
172	Definitions of Pseudocapacitive Materials: A Brief Review. <i>Energy and Environmental Materials</i> , <b>2019</b> , 2, 30-37	13	538
171	Epitaxial Growth of Branched Fe <sub>2</sub> O <sub>3</sub> /SnO <sub>2</sub> Nano-Heterostructures with Improved Lithium-Ion Battery Performance. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2439-2445	15.6	408
170	Carbon-Stabilized High-Capacity Ferroferric Oxide Nanorod Array for Flexible Solid-State Alkaline Battery/Supercapacitor Hybrid Device with High Environmental Suitability. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5384-5394	15.6	396
169	Three-dimensional tubular arrays of MnO <sub>2</sub> /NiO nanoflakes with high areal pseudocapacitance. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2419-2426		382
168	A Flexible Quasi-Solid-State Nickel-Zinc Battery with High Energy and Power Densities Based on 3D Electrode Design. <i>Advanced Materials</i> , <b>2016</b> , 28, 8732-8739	24	367
167	Hybrid structure of cobalt monoxide nanowire @ nickel hydroxidenitrate nanoflake aligned on nickel foam for high-rate supercapacitor. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4496	35.4	365
166	Hydrothermal Synthesis of Bi <sub>2</sub> WO <sub>6</sub> Uniform Hierarchical Microspheres. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 1350-1355	3.5	324
165	One-step synthesis of NH <sub>2</sub> -graphene from in situ graphene-oxide reduction and its improved electrochemical properties. <i>Carbon</i> , <b>2011</b> , 49, 3250-3257	10.4	322
164	Building one-dimensional oxide nanostructure arrays on conductive metal substrates for lithium-ion battery anodes. <i>Nanoscale</i> , <b>2011</b> , 3, 45-58	7.7	306
163	Iron Oxide-Based Nanotube Arrays Derived from Sacrificial Template-Accelerated Hydrolysis: Large-Area Design and Reversible Lithium Storage. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 212-217	9.6	298
162	Direct growth of SnO <sub>2</sub> nanorod array electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1859		263
161	Layered Double Hydroxide Nano- and Microstructures Grown Directly on Metal Substrates and Their Calcined Products for Application as Li-Ion Battery Electrodes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1448-1458	15.6	247
160	A general strategy toward graphene@metal oxide core-shell nanostructures for high-performance lithium storage. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4954	35.4	241

159	Self-Assembled CuO Monocrystalline Nanoarchitectures with Controlled Dimensionality and Morphology. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 1690-1696	3.5	229
158	Fabrication and Shell Optimization of Synergistic TiO <sub>2</sub> -MoO <sub>3</sub> Core-Shell Nanowire Array Anode for High Energy and Power Density Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3524-3533	15.6	223
157	Evolution of disposable bamboo chopsticks into uniform carbon fibers: a smart strategy to fabricate sustainable anodes for Li-ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2670-2679	35.4	219
156	A Novel Phase-Transformation Activation Process toward Ni-Mn-O Nanoprism Arrays for 2.4 V Ultrahigh-Voltage Aqueous Supercapacitors. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703463	24	202
155	Quantum-dot-sensitized TiO <sub>2</sub> inverse opals for photoelectrochemical hydrogen generation. <i>Small</i> , <b>2012</b> , 8, 37-42	11	196
154	Fabrication of Co <sub>3</sub> O <sub>4</sub> -reduced graphene oxide scrolls for high-performance supercapacitor electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 14462-5	3.6	192
153	Carbon/ZnO Nanorod Array Electrode with Significantly Improved Lithium Storage Capability. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5336-5339	3.8	189
152	General Synthesis of Large-Scale Arrays of One-Dimensional Nanostructured Co <sub>3</sub> O <sub>4</sub> Directly on Heterogeneous Substrates. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 70-75	3.5	188
151	Bismuth oxide: a versatile high-capacity electrode material for rechargeable aqueous metal-ion batteries. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2881-2891	35.4	178
150	In-Plane Assembled Orthorhombic Nb <sub>2</sub> O <sub>5</sub> Nanorod Films with High-Rate Li <sup>+</sup> Intercalation for High-Performance Flexible Li-Ion Capacitors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704330	15.6	171
149	Carbon-decorated ZnO nanowire array: A novel platform for direct electrochemistry of enzymes and biosensing applications. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 202-205	5.1	170
148	Hierarchical nanostructures of cupric oxide on a copper substrate: controllable morphology and wettability. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 4427		165
147	Synthesis of Fe <sub>3</sub> O <sub>4</sub> @SnO <sub>2</sub> core-shell nanorod film and its application as a thin-film supercapacitor electrode. <i>Chemical Communications</i> , <b>2012</b> , 48, 5010-2	5.8	163
146	Direct Synthesis of CoO Porous Nanowire Arrays on Ti Substrate and Their Application as Lithium-Ion Battery Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 929-932	3.8	162
145	Integrating large specific surface area and high conductivity in hydrogenated NiCo <sub>2</sub> O <sub>4</sub> double-shell hollow spheres to improve supercapacitors. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e165-e165	10.3	156
144	Ultrathin nickel hydroxidenitrate nanoflakes branched on nanowire arrays for high-rate pseudocapacitive energy storage. <i>Chemical Communications</i> , <b>2011</b> , 47, 3436-8	5.8	156
143	Large-scale uniform Co(OH) <sub>2</sub> nanowire arrays grown on graphite as pseudocapacitor electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 99-103	9.5	142
142	Template synthesis of SnO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> nanotube array for 3D lithium ion battery anode with large areal capacity. <i>Nanoscale</i> , <b>2012</b> , 4, 2760-5	7.7	136

141	Facile Synthesis of Flowerlike Cu <sub>2</sub> O Nanoarchitectures by a Solution Phase Route. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 87-92	3.5	134
140	A carbon modified MnO <sub>2</sub> nanosheet array as a stable high-capacitance supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9809	13	131
139	Rational Construction of Hollow Core-Branch CoSe Nanoarrays for High-Performance Asymmetric Supercapacitor and Efficient Oxygen Evolution. <i>Small</i> , <b>2018</b> , 14, 1700979	11	130
138	Vertically Aligned 1D ZnO Nanostructures on Bulk Alloy Substrates: Direct Solution Synthesis, Photoluminescence, and Field Emission. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4990-4997	3.8	124
137	Singlet Fission: Progress and Prospects in Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1601652	24	116
136	CNT/Ni hybrid nanostructured arrays: synthesis and application as high-performance electrode materials for pseudocapacitors. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 5000	35.4	116
135	Template synthesis of hollow fusiform RuO <sub>2</sub> ·xH <sub>2</sub> O nanostructure and its supercapacitor performance. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 469-472	13	114
134	C@ZnO nanorod array-based hydrazine electrochemical sensor with improved sensitivity and stability. <i>Dalton Transactions</i> , <b>2010</b> , 39, 8693-7	4.3	109
133	A novel glucose sensor based on monodispersed Ni/Al layered double hydroxide and chitosan. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 24, 1054-8	11.8	106
132	Carbon-modified Bi <sub>2</sub> WO <sub>6</sub> nanostructures with improved photocatalytic activity under visible light. <i>Dalton Transactions</i> , <b>2010</b> , 39, 3420-5	4.3	97
131	Synthesis and Visible-Light Photocatalytic Property of Bi <sub>2</sub> WO <sub>6</sub> Hierarchical Octahedron-Like Structures. <i>Nanoscale Research Letters</i> , <b>2008</b> , 3, 365-371	5	97
130	Directly grown nanostructured electrodes for high volumetric energy density binder-free hybrid supercapacitors: a case study of CNTs//Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . <i>Scientific Reports</i> , <b>2015</b> , 5, 7780	4.9	95
129	Sulfur-Induced Interface Engineering of Hybrid NiCo <sub>2</sub> O <sub>4</sub> @NiMo <sub>2</sub> S <sub>4</sub> Structure for Overall Water Splitting and Flexible Hybrid Energy Storage. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901308	4.6	94
128	Large-Scale Porous Hematite Nanorod Arrays: Direct Growth on Titanium Foil and Reversible Lithium Storage. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 21158-21164	3.8	94
127	Direct synthesis of porous NiO nanowall arrays on conductive substrates for supercapacitor application. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 578-583	3.3	94
126	Ni/Al layered double hydroxide nanosheet film grown directly on Ti substrate and its application for a nonenzymatic glucose sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 147, 241-247	8.5	89
125	The stability of P2-layered sodium transition metal oxides in ambient atmospheres. <i>Nature Communications</i> , <b>2020</b> , 11, 3544	17.4	88
124	Noninterference Revealing of "Layered to Layered" Zinc Storage Mechanism of $\delta$ MnO toward Neutral Zn-Mn Batteries with Superior Performance. <i>Advanced Science</i> , <b>2020</b> , 7, 1902795	13.6	84

123	Integrated copper-nickel oxide mesoporous nanowire arrays for high energy density aqueous asymmetric supercapacitors. <i>Nanoscale Horizons</i> , <b>2016</b> , 1, 150-155	10.8	83
122	Morphological control and photodegradation behavior of rutile TiO <sub>2</sub> prepared by a low-temperature process. <i>Materials Letters</i> , <b>2006</b> , 60, 1753-1757	3.3	83
121	Novel Dual-Ion Hybrid Supercapacitor Based on a NiCoO Nanowire Cathode and MoO-C Nanofilm Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 30232-30238	9.5	77
120	Facile Formation of a Solid Electrolyte Interface as a Smart Blocking Layer for High-Stability Sulfur Cathode. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700273	24	76
119	Large-scale synthesis of flower-like ZnO structures by a surfactant-free and low-temperature process. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 98, 523-527	4.4	76
118	Composition-Graded Zn <sub>x</sub> Cd <sub>1-x</sub> Core-Shell Nanowire Array Electrodes for Photoelectrochemical Hydrogen Generation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3802-3807	3.8	72
117	CNT-network modified Ni nanostructured arrays for high performance non-enzymatic glucose sensors. <i>RSC Advances</i> , <b>2011</b> , 1, 1020	3.7	72
116	Facile and large-scale production of ZnO/Zn-Al layered double hydroxide hierarchical heterostructures. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 21865-72	3.4	71
115	Solution-based growth and optical properties of self-assembled monocrystalline ZnO ellipsoids. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 10612-8	3.4	70
114	SnO <sub>2</sub> @Si core-shell nanowire arrays on carbon cloth as a flexible anode for Li ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13433	13	69
113	Perovskite LaNiO <sub>3</sub> -oxide as an anion-intercalated pseudocapacitor electrode. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 381-388	5.7	66
112	Kirkendall-effect-based growth of dendrite-shaped CuO hollow micro/nanostructures for lithium-ion battery anodes. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 662-667	3.3	66
111	Formation of hierarchical CuO microcabbages as stable bionic superhydrophobic materials via a room-temperature solution-immersion process. <i>Solid State Sciences</i> , <b>2008</b> , 10, 1568-1576	3.4	65
110	A general route to thickness-tunable multilayered sheets of sheelite-type metal molybdate and their self-assembled films. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 2754		65
109	A non-polarity flexible asymmetric supercapacitor with nickel nanoparticle@ carbon nanotube three-dimensional network electrodes. <i>Energy Storage Materials</i> , <b>2018</b> , 11, 75-82	19.4	62
108	CoBe layered double hydroxide nanowall array grown from an alloy substrate and its calcined product as a composite anode for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 15969		61
107	A novel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based high-performance lithium-ion electrode at elevated temperature. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4938-4944	13	59
106	Morphology control and transition of ZnO nanorod arrays by a simple hydrothermal method. <i>Materials Letters</i> , <b>2008</b> , 62, 1503-1506	3.3	59

105	Mechanistic investigation of the charge storage process of pseudocapacitive Fe <sub>3</sub> O <sub>4</sub> nanorod film. <i>Electrochimica Acta</i> , <b>2014</b> , 120, 52-56	6.7	58
104	Conformal Multifunctional Titania Shell on Iron Oxide Nanorod Conversion Electrode Enables High Stability Exceeding 30 000 Cycles in Aqueous Electrolyte. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800497	15.6	51
103	MOF-derived Zn/Mn mixed oxides@carbon hollow disks with robust hierarchical structure for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2974-2983	13	50
102	Diffusion-controlled evolution of core-shell nanowire arrays into integrated hybrid nanotube arrays for Li-ion batteries. <i>Nanoscale</i> , <b>2013</b> , 5, 8105-13	7.7	50
101	Selective growth and properties of zinc oxide nanostructures. <i>Scripta Materialia</i> , <b>2006</b> , 55, 795-798	5.6	50
100	Tailored Ni/Cu alloy hierarchical porous nanowire as a potential efficient catalyst for DMFCs. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1406	5.5	49
99	Fabrication of boehmite AlOOH nanofibers by a simple hydrothermal process. <i>Materials Letters</i> , <b>2006</b> , 60, 3586-3590	3.3	49
98	Designing Polymer-in-Salt Electrolyte and Fully Infiltrated 3D Electrode for Integrated Solid-State Lithium Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 12931-12940	16.4	48
97	Carbon-Coated SnO(2) Nanorod Array for Lithium-Ion Battery Anode Material. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 649-653	5	47
96	Fabrication and characterization of TiO <sub>2</sub> /short MWNTs with enhanced photocatalytic activity. <i>Materials Letters</i> , <b>2007</b> , 61, 2467-2472	3.3	46
95	A low-temperature synthesis of multiwhisker-based zinc oxide micron crystals. <i>Materials Letters</i> , <b>2005</b> , 59, 3710-3714	3.3	45
94	Surface and Interface Engineering of Nanoarrays toward Advanced Electrodes and Electrochemical Energy Storage Devices. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004959	24	44
93	Carbon nanotube network film directly grown on carbon cloth for high-performance solid-state flexible supercapacitors. <i>Nanotechnology</i> , <b>2014</b> , 25, 035402	3.4	43
92	UV-resistant superhydrophobic BiOCl nanoflake film by a room-temperature hydrolysis process. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6632-4	4.3	43
91	Preparation of nickel oxide and carbon nanosheet array and its application in glucose sensing. <i>Journal of Solid State Chemistry</i> , <b>2011</b> , 184, 2738-2743	3.3	43
90	Scalable Wire-Type Asymmetric Pseudocapacitor Achieving High Volumetric Energy/Power Densities and Ultralong Cycling Stability of 100 000 Times. <i>Advanced Science</i> , <b>2019</b> , 6, 1802067	13.6	42
89	Mixed Ni/Cu-oxide nanowire array on conductive substrate and its application as enzyme-free glucose sensor. <i>Analytical Methods</i> , <b>2012</b> , 4, 4003	3.2	39
88	Preparation and photoluminescence of ZnO complex structures with controlled morphology. <i>Materials Letters</i> , <b>2006</b> , 60, 1354-1359	3.3	39

87	Hydrothermal Synthesis of Single-Crystal Szaibelyite MgBO <sub>2</sub> (OH) Nanobelt as a New Host Material for Red-Emitting Rare-Earth Ions. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 250-257	9.6	38
86	Design of SnO <sub>2</sub> /C hybrid triple-layer nanospheres as Li-ion battery anodes with high stability and rate capability. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2748-2755	13	37
85	Synthesis of ZnO@TiO <sub>2</sub> core-shell long nanowire arrays and their application on dye-sensitized solar cells. <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 190, 303-308	3.3	37
84	Tin oxide nanorod array-based electrochemical hydrogen peroxide biosensor. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 1177-81	5	37
83	High-voltage and high-rate symmetric supercapacitor based on MnO <sub>2</sub> -polypyrrole hybrid nanofilm. <i>Nanotechnology</i> , <b>2014</b> , 25, 305401	3.4	36
82	A novel evolution strategy to fabricate a 3D hierarchical interconnected core-shell Ni/MnO <sub>2</sub> hybrid for Li-ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 7471-3	5.8	36
81	High-Capacity and Self-Stabilized Manganese Carbonate Microspheres as Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25369-78	9.5	36
80	Controllable synthesis and characterization of hollow-opened ZnO/Zn and solid Zn/ZnO single crystal microspheres. <i>Nanotechnology</i> , <b>2006</b> , 17, 4950-4955	3.4	34
79	Synergistic Coupling of Ether Electrolyte and 3D Electrode Enables Titanates with Extraordinary Coulombic Efficiency and Rate Performance for Sodium-Ion Capacitors. <i>Small Methods</i> , <b>2019</b> , 3, 1800371 <sup>12.8</sup>		33
78	Putting Nanoarmors on Yolk-Shell Si@C Nanoparticles: A Reliable Engineering Way To Build Better Si-Based Anodes for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24157-24163	9.5	33
77	A binder-free electrode architecture design for lithium-sulfur batteries: a review. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 2104-2122	5.1	31
76	Density- and adhesion-controlled ZnO nanorod arrays on the ITO flexible substrates and their electrochromic performance. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 507, 261-266	5.7	31
75	A low-temperature synthesis of ultraviolet-light-emitting ZnO nanotubes and tubular whiskers. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 843-848	3.3	30
74	Confined Fe <sub>2</sub> O <sub>3</sub> Nanoparticles on Graphite Foam as High-Rate and Stable Lithium-Ion Battery Anode. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 487-492	3.1	29
73	Vanadium trioxide@carbon nanosheet array-based ultrathin flexible symmetric hydrogel supercapacitors with 2 V voltage and high volumetric energy density. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22216-22223	13	28
72	A directly grown pristine Cu-CAT metal-organic framework as an anode material for high-energy sodium-ion capacitors. <i>Chemical Communications</i> , <b>2019</b> , 55, 11207-11210	5.8	28
71	Direct Growth of Bismuth Film as Anode for Aqueous Rechargeable Batteries in LiOH, NaOH and KOH Electrolytes. <i>Nanomaterials</i> , <b>2015</b> , 5, 1756-1765	5.4	27
70	Growth and comparison of different morphologic ZnO nanorod arrays by a simple aqueous solution route. <i>Materials Letters</i> , <b>2007</b> , 61, 4362-4365	3.3	27

- 69 General synthesis of graphene-supported bicomponent metal monoxides as alternative high-performance Li-ion anodes to binary spinel oxides. *Journal of Materials Chemistry A*, **2017**, 5, 1687-1697 13 26
- 68 Electron regulation enabled selective lithium deposition for stable anodes of lithium-metal batteries. *Journal of Materials Chemistry A*, **2019**, 7, 2184-2191 13 26
- 67 Topotactic conversion-derived Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>/rutile TiO<sub>2</sub> hybrid nanowire array for high-performance lithium ion full cells. *RSC Advances*, **2014**, 4, 12950 3.7 26
- 66 Large-scale and low-temperature synthesis of maize-shaped ZnO micron flowers with excellent optical properties. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 127, 85-90 3.1 26
- 65 Energy Storage: Co<sub>3</sub>O<sub>4</sub> Nanowire@MnO<sub>2</sub> Ultrathin Nanosheet Core/Shell Arrays: A New Class of High-Performance Pseudocapacitive Materials (Adv. Mater. 18/2011). *Advanced Materials*, **2011**, 23, 2075-2075 24 23
- 64 A General Solution Synthesis Route to ZnO-Based Nanorod Arrays on Ceramic/Silicon/Quartz Glass/Metal Substrates. *Science of Advanced Materials*, **2010**, 2, 396-401 2.3 23
- 63 Rational Designs for Lithium-Sulfur Batteries with Low Electrolyte/Sulfur Ratio. *Advanced Functional Materials*, **2021**, 31, 2010499 15.6 23
- 62 Flexible solid-state symmetric supercapacitors based on MnO<sub>2</sub> nanofilms with high rate capability and long cyclability. *AIP Advances*, **2013**, 3, 082129 1.5 22
- 61 Ruddlesden-Popper type La<sub>2</sub>NiO<sub>4</sub>+ $\delta$  oxide coated by Ag nanoparticles as an outstanding anion intercalation cathode for hybrid supercapacitors. *Applied Surface Science*, **2019**, 484, 551-559 6.7 21
- 60 Directly grown nanostructured electrodes for high-power and high-stability alkaline nickel/bismuth batteries. *Science China Materials*, **2019**, 62, 487-496 7.1 21
- 59 Enhancing the performance of nanostructured ZnO as an anode material for lithium-ion batteries by polydopamine-derived carbon coating and confined crystallization. *Journal of Alloys and Compounds*, **2018**, 764, 545-554 5.7 21
- 58 Facile fabrication of PtNi alloy nanoparticles supported on reduced graphene oxide as excellent electrocatalysts for hydrogen evolution reaction in alkaline environment. *Journal of Nanoparticle Research*, **2019**, 21, 1 2.3 20
- 57 Flexible quasi-solid-state dual-ion asymmetric supercapacitor based on Ni(OH)<sub>2</sub> and Nb<sub>2</sub>O<sub>5</sub> nanosheet arrays. *Green Energy and Environment*, **2019**, 4, 382-390 5.7 19
- 56 Single-crystalline ZnO nanowires on zinc substrate by a simple hydrothermal synthesis method. *Materials Letters*, **2008**, 62, 2507-2511 3.3 19
- 55 Electrolyte Engineering Toward High-Voltage Aqueous Energy Storage Devices. *Energy and Environmental Materials*, **2021**, 4, 302-306 13 19
- 54 Enhanced performance of solid-state LiO<sub>2</sub> battery using a novel integrated architecture of gel polymer electrolyte and nanoarray cathode. *Rare Metals*, **2018**, 37, 527-535 5.5 18
- 53 One-step growth of ZnO/ZnS core-shell nanowires by thermal evaporation. *Smart Materials and Structures*, **2007**, 16, 89-92 3.4 18
- 52 Carbon-Glue-Enabled Highly Stable and High-Rate Fe<sub>3</sub>O<sub>4</sub> Nanorod Anode for Flexible Quasi-Solid-State Nickel-Copper/Iron Alkaline Battery. *Advanced Materials Interfaces*, **2018**, 5, 1801043 4.6 17



51	High surface area ZnO-carbon composite tubular arrays based on the Kirkendall effect and in situ Zn evaporation. <i>Chemical Communications</i> , <b>2009</b> , 4548-50	5.8	17
50	Bismuth oxide nanoflake@carbon film: A free-standing battery-type electrode for aqueous sodium ion hybrid supercapacitors. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 629-632	8.1	16
49	Recent developments on aqueous sodium-ion batteries. <i>Materials Technology</i> , <b>2016</b> , 31, 501-509	2.1	16
48	Polymer-in-salt solid electrolytes for lithium-ion batteries. <i>Functional Materials Letters</i> , <b>2019</b> , 12, 1930006.2	6.2	15
47	Oxygen vacancies boosting ultra-stability of mesoporous ZnO-CoO@N-doped carbon microspheres for asymmetric supercapacitors. <i>Science China Materials</i> , <b>2020</b> , 63, 2013-2027	7.1	15
46	Post-annealing tailored 3D cross-linked TiNb <sub>2</sub> O <sub>7</sub> nanorod electrode: towards superior lithium storage for flexible lithium-ion capacitors. <i>Science China Materials</i> , <b>2020</b> , 63, 492-504	7.1	14
45	Electrolyte Concentration Regulation Boosting Zinc Storage Stability of High-Capacity KVO Cathode for Bendable Quasi-Solid-State Zinc Ion Batteries. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 34	19.5	14
44	One-pot growth of Co(OH) nanowire bundle arrays on in situ functionalized carbon cloth for robust flexible supercapacitor electrodes. <i>Dalton Transactions</i> , <b>2018</b> , 47, 15416-15423	4.3	14
43	Nanoparticle-assembled LiMn <sub>2</sub> O <sub>4</sub> hollow microspheres as high-performance lithium-ion battery cathode. <i>Materials Research Bulletin</i> , <b>2017</b> , 96, 437-442	5.1	13
42	Direct growth of Fe <sub>3</sub> O <sub>4</sub> -MoO <sub>2</sub> hybrid nanofilm anode with enhanced electrochemical performance in neutral aqueous electrolyte. <i>Progress in Natural Science: Materials International</i> , <b>2016</b> , 26, 258-263	3.6	13
41	Synthesis and optical properties of partially S-doped ZnO symmetric three-sided feather-like nanostructures. <i>Smart Materials and Structures</i> , <b>2007</b> , 16, 1736-1741	3.4	12
40	A homogenous mixed coating enabled significant stability and capacity enhancement of iron oxide anodes for aqueous nickel-iron batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 10308-10311	5.8	11
39	Preparation and characterization of ZnO porous plates. <i>Materials Letters</i> , <b>2008</b> , 62, 188-190	3.3	11
38	Synthesis and optical properties of heterostructured ZnO:S/ZnO nanosaws. <i>Journal Physics D: Applied Physics</i> , <b>2007</b> , 40, 7662-7668	3	11
37	Efficient etching of oxygen-incorporated molybdenum disulfide nanosheet arrays for excellent electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2019</b> , 491, 245-255	6.7	10
36	Synthesis of hierarchical barium tungstate corns and their shape evolution process. <i>Materials Letters</i> , <b>2007</b> , 61, 5250-5254	3.3	10
35	Weak Ionization Induced Interfacial Deposition and Transformation towards Fast-Charging NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Nanowire Bundles for Advanced Aqueous Sodium-Ion Capacitors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101027	15.6	10
34	ZnO nanorod-templated well-aligned ZrO <sub>2</sub> nanotube arrays for fibroblast adhesion and proliferation. <i>Nanotechnology</i> , <b>2014</b> , 25, 215102	3.4	9

33	ZnO nanowire array-templated LbL self-assembled polyelectrolyte nanotube arrays and application for charged drug delivery. <i>Nanotechnology</i> , <b>2013</b> , 24, 045605	3.4	9
32	Formation of ZnO three-side teathed nanostructures. <i>Materials Letters</i> , <b>2007</b> , 61, 1756-1759	3.3	9
31	A novel synthesis towards a vanadium pentoxide porous nanodisk film as a cathode material for advanced Li-ion hybrid capacitors. <i>Chemical Communications</i> , <b>2019</b> , 56, 70-73	5.8	9
30	Encapsulating Sulfides into Tridymite/Carbon Reactors Enables Stable Sodium Ion Conversion/Alloying Anode with High Initial Coulombic Efficiency Over 89%. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009598	15.6	9
29	A high-tap-density nanosphere-assembled microcluster to simultaneously enable high gravimetric, areal and volumetric capacities: a case study of TiO <sub>2</sub> anode. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 11916-11928	13	9
28	Novel Hybrid Supercapacitors Based on Nanoarray Electrodes. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2020</b> , 36, 1904049-0	3.8	8
27	Surface-assembled highly flexible Na <sub>3</sub> (VOPO <sub>4</sub> ) <sub>2</sub> F nanocube cathode for high-rate binder-free Na-ion batteries. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 826-829	8.1	8
26	Electrodepositing a 3D porous rGO electrode for efficient hydrogel electrolyte integration towards 1.6 V flexible symmetric supercapacitors. <i>Chemical Communications</i> , <b>2019</b> , 55, 8282-8285	5.8	7
25	Self-assembly synthesis of cactuslike Cu <sub>2</sub> O 3D nanoarchitectures via a low-temperature solution approach. <i>Materials Research Bulletin</i> , <b>2008</b> , 43, 2166-2171	5.1	7
24	Robust cathode-ether electrolyte interphase on interfacial redox assembled fluorophosphate enabling high-rate and ultrastable sodium ion full cells. <i>Nano Energy</i> , <b>2022</b> , 94, 106918	17.1	7
23	Combinational Design of Electronic Structure and Nanoarray Architecture Achieves a Low-Overpotential Oxygen Electrode for Aprotic Lithium-Oxygen Batteries. <i>Small Methods</i> , <b>2020</b> , 4, 1900619	12.8	7
22	Hybrid architecture design enhances the areal capacity and cycling life of low-overpotential nanoarray oxygen electrode for lithium-oxygen batteries. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 46, 248-255 <sup>12</sup>		7
21	Designing Polymer-in-Salt Electrolyte and Fully Infiltrated 3D Electrode for Integrated Solid-State Lithium Batteries. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 13041-13050	3.6	6
20	Ball-flower-like carbon microspheres via a three-dimensional replication strategy as a high-capacity cathode in lithium-oxygen batteries. <i>Science China Materials</i> , <b>2019</b> , 62, 633-644	7.1	6
19	Recent advances in materials and device technologies for aqueous hybrid supercapacitors. <i>Science China Materials</i> , <sup>1</sup>	7.1	6
18	Surface carboxyl groups enhance the capacities of carbonaceous oxygen electrodes for aprotic lithium-oxygen batteries: A direct observation on binder-free electrodes. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 2328-2332	8.1	5
17	Self-assembly of Bi <sub>2</sub> WO <sub>6</sub> square nanoplates into hierarchical structures. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 1530-4	1.3	5
16	Copper nanowall array grown on bulk Fe <sub>3</sub> O <sub>4</sub> /Ni alloy substrate at room temperature as lithium-ion battery current collector. <i>Thin Solid Films</i> , <b>2010</b> , 518, 6876-6882	2.2	5

15	A novel bifunctional oxygen electrode architecture enabled by heterostructures self-scaffolding for lithium-oxygen batteries. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 51, 216-221	12	4
14	Inverse Opals: Quantum-Dot-Sensitized TiO <sub>2</sub> Inverse Opals for Photoelectrochemical Hydrogen Generation (Small 1/2012). <i>Small</i> , <b>2012</b> , 8, 36-36	11	4
13	The effects of structural properties on the lithium storage behavior of mesoporous TiO <sub>2</sub> . <i>Nanotechnology</i> , <b>2017</b> , 28, 265401	3-4	3
12	Supercapacitors. <i>Chinese Chemical Letters</i> , <b>2018</b> , 29, 551-552	8.1	3
11	Directly Grown K <sub>0.33</sub> WO <sub>3</sub> Nanosheet Film Electrode for Fast Direct Electron Transfer of Protein. <i>ChemElectroChem</i> , <b>2014</b> , 1, 463-470	4-3	3
10	Iron anode-based aqueous electrochemical energy storage devices: Recent advances and future perspectives <b>2022</b> , 1, 116-139		3
9	Synergistic tuning of electrochemical surface area and surface Co <sup>3+</sup> by oxygen plasma enhances the capacities of Co <sub>3</sub> O <sub>4</sub> lithium-oxygen battery cathodes. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 3491-3491	8.1	3
8	Binder-free electrodes for advanced potassium-ion batteries: A review. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 1299-1308	8.1	3
7	Carbon-coated TiNbO nanosheet arrays as self-supported high mass-loading anodes for flexible Li-ion batteries. <i>Chemical Communications</i> , <b>2021</b> , 57, 1822-1825	5.8	3
6	Molecular cloning and expression analysis of an 1-aminocyclopropane-1-carboxylate synthase gene from <i>Oncidium Gower Ramsey</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 469, 203-9	3-4	2
5	Array-Structured Double-Ion Cooperative Adsorption Sites as Multifunctional Sulfur Hosts for Lithium-Sulfur Batteries with Low Electrolyte/Sulfur Ratio. <i>ACS Nano</i> , <b>2021</b> , 15, 16322-16334	16.7	2
4	Recent progress in electrode materials for aqueous sodium and potassium ion batteries. <i>Materials Chemistry Frontiers</i> ,	7.8	1
3	Synergistic zinc doping and defect engineering toward MoS nanosheet arrays for highly efficient electrocatalytic hydrogen evolution. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5770-5775	4-3	1
2	Engineering dual defective graphenes to synergistically improve electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2021</b> , 566, 150712	6.7	1
1	Polymer-in-Salt Solid Electrolytes for Lithium-Ion Batteries <b>2021</b> , 201-216		