

Zhaoping Liu

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204
papers

7,780
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47
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82
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220
ext. papers

9,434
ext. citations

8.4
avg, IF

6.49
L-index

#	Paper	IF	Citations
204	Towards High-Voltage Aqueous Metal-Ion Batteries Beyond 1.5 V: The Zinc/Zinc Hexacyanoferrate System. <i>Advanced Energy Materials</i> , 2015 , 5, 1400930	21.8	680
203	Graphene modified LiFePO ₄ cathode materials for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3353		420
202	Gas-solid interfacial modification of oxygen activity in layered oxide cathodes for lithium-ion batteries. <i>Nature Communications</i> , 2016 , 7, 12108	17.4	379
201	A scalable, solution-phase processing route to graphene oxide and graphene ultralarge sheets. <i>Chemical Communications</i> , 2010 , 46, 2611-3	5.8	216
200	3D Porous MXene (TiC)/Reduced Graphene Oxide Hybrid Films for Advanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3634-3643	9.5	185
199	A 3D porous architecture of Si/graphene nanocomposite as high-performance anode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7724		182
198	Large-Sized Few-Layer Graphene Enables an Ultrafast and Long-Life Aluminum-Ion Battery. <i>Advanced Energy Materials</i> , 2017 , 7, 1700034	21.8	160
197	Morphology-controlled solvothermal synthesis of LiFePO ₄ as a cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8086		158
196	A Comprehensive Understanding of Lithium Sulfur Battery Technology. <i>Advanced Functional Materials</i> , 2019 , 29, 1901730	15.6	156
195	Morphology-Dependent Electrochemical Performance of Zinc Hexacyanoferrate Cathode for Zinc-Ion Battery. <i>Scientific Reports</i> , 2015 , 5, 18263	4.9	156
194	Morphological Evolution of High-Voltage Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials for Lithium-Ion Batteries: The Critical Effects of Surface Orientations and Particle Size. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4661-75	9.5	152
193	Sulfur/Carbon Nanotube Composite Film as a Flexible Cathode for Lithium Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21112-21119	3.8	121
192	Mechanical and Thermal Properties of Epoxy Resin Nanocomposites Reinforced with Graphene Oxide. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 251-256		116
191	Microscale Lithium Metal Stored inside Cellular Graphene Scaffold toward Advanced Metallic Lithium Anodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1703152	21.8	113
190	Transition metal oxide-based oxygen reduction reaction electrocatalysts for energy conversion systems with aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10595-10626	13	109
189	A Chronicle Review of Nonsilicon (Sn, Sb, Ge)-Based Lithium/Sodium-Ion Battery Alloying Anodes. <i>Small Methods</i> , 2020 , 4, 2000218	12.8	99
188	Enhancing the pyridinic N content of Nitrogen-doped graphene and improving its catalytic activity for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28298-28308	6.7	91

187	Abundant nanoscale defects to eliminate voltage decay in Li-rich cathode materials. <i>Energy Storage Materials</i> , 2019 , 16, 220-227	19.4	91
186	Hybrid Organic-Inorganic Thermoelectric Materials and Devices. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15206-15226	16.4	87
185	Morphology controlled synthesis and modification of high-performance LiMnPO ₄ cathode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21144		86
184	Enhanced electrochemical performance with surface coating by reactive magnetron sputtering on lithium-rich layered oxide electrodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9185-93	9.5	83
183	New-concept batteries based on aqueous Li ⁺ /Na ⁺ mixed-ion electrolytes. <i>Scientific Reports</i> , 2013 , 3, 1946	4.9	83
182	Self-Templating Construction of 3D Hierarchical Macro-/Mesoporous Silicon from 0D Silica Nanoparticles. <i>ACS Nano</i> , 2017 , 11, 889-899	16.7	82
181	Understanding and Controlling Anionic Electrochemical Activity in High-Capacity Oxides for Next Generation Li-Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 908-915	9.6	81
180	Electrochemical properties of 0.6Li[Li _{1/3} Mn _{2/3}]O ₂ ·0.4LiNi _x Mn _y Co _{1-x-y} O ₂ cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012 , 218, 128-133	8.9	80
179	Two-dimensional silicon suboxides nanostructures with Si nanodomains confined in amorphous SiO ₂ derived from siloxene as high performance anode for Li-ion batteries. <i>Nano Energy</i> , 2017 , 39, 546-555	17.1	79
178	A novel fluorocyclophosphazene as bifunctional additive for safer lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 278, 190-196	8.9	77
177	Polyimide matrix-enhanced cross-linked gel separator with three-dimensional heat-resistance skeleton for high-safety and high-power lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9134	13	75
176	Water-mediated cation intercalation of open-framework indium hexacyanoferrate with high voltage and fast kinetics. <i>Nature Communications</i> , 2016 , 7, 11982	17.4	73
175	Improving the cyclability performance of lithium-ion batteries by introducing lithium difluorophosphate (LiPO ₂ F ₂) additive. <i>RSC Advances</i> , 2017 , 7, 26052-26059	3.7	69
174	Synthesis and electrochemical properties of layered lithium transition metal oxides. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2544-2549		69
173	(La _{1-x} Sr _x) _{0.98} MnO ₃ perovskite with A-site deficiencies toward oxygen reduction reaction in aluminum-air batteries. <i>Journal of Power Sources</i> , 2017 , 342, 192-201	8.9	64
172	Porous membrane with high curvature, three-dimensional heat-resistance skeleton: a new and practical separator candidate for high safety lithium ion battery. <i>Scientific Reports</i> , 2015 , 5, 8255	4.9	63
171	Solution-Based Evolution and Enhanced Methanol Oxidation Activity of Monodisperse Platinum-Copper Nanocubes. <i>Angewandte Chemie</i> , 2009 , 121, 4281-4285	3.6	63
170	Surface structural conversion and electrochemical enhancement by heat treatment of chemical pre-delithiation processed lithium-rich layered cathode material. <i>Journal of Power Sources</i> , 2014 , 268, 683-691	8.9	62

169	Superior Thermally Stable and Nonflammable Porous Polybenzimidazole Membrane with High Wettability for High-Power Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8742-8750	8.5	60
168	Freestanding bacterial cellulose-graphene oxide composite membranes with high mechanical strength for selective ion permeation. <i>Scientific Reports</i> , 2016 , 6, 33185	4.9	58
167	Silicon/carbon lithium-ion battery anode with 3D hierarchical macro-/mesoporous silicon network: Self-templating synthesis via magnesiothermic reduction of silica/carbon composite. <i>Journal of Power Sources</i> , 2019 , 412, 93-104	8.9	57
166	A comparative study on the oxidation state of lattice oxygen among $\text{Li}_{1.14}\text{Ni}_{0.136}\text{Co}_{0.136}\text{Mn}_{0.544}\text{O}_2$, Li_2MnO_3 , $\text{LiNi}_{0.5}\text{Co}_{0.2}\text{Mn}_{0.3}\text{O}_2$ and LiCoO_2 for the initial charge/discharge. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11930-11939	13	52
165	Graphene nested porous carbon current collector for lithium metal anode with ultrahigh areal capacity. <i>Energy Storage Materials</i> , 2018 , 15, 266-273	19.4	52
164	Aqueous batteries based on mixed monovalence metal ions: a new battery family. <i>ChemSusChem</i> , 2014 , 7, 2295-302	8.3	52
163	Ion-selective copper hexacyanoferrate with an open-framework structure enables high-voltage aqueous mixed-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16740-16747	13	51
162	Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. <i>Advanced Materials</i> , 2017 , 29, 1604453	24	50
161	Designed synthesis of LiMn_2O_4 microspheres with adjustable hollow structures for lithium-ion battery applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 837-842	13	50
160	Methylsulfonylmethane-Based Deep Eutectic Solvent as a New Type of Green Electrolyte for a High-Energy-Density Aqueous Lithium-Ion Battery. <i>ACS Energy Letters</i> , 2019 , 4, 1419-1426	20.1	49
159	Si/Ag/C Nanohybrids with in Situ Incorporation of Super-Small Silver Nanoparticles: Tiny Amount, Huge Impact. <i>ACS Nano</i> , 2018 , 12, 861-875	16.7	49
158	$\text{La}_{0.8}\text{Sr}_{0.2}\text{Co}_{1-x}\text{Mn}_x\text{O}_3$ perovskites as efficient bi-functional cathode catalysts for rechargeable zinc-air batteries. <i>Electrochimica Acta</i> , 2017 , 254, 14-24	6.7	48
157	Composition-Dependent Electrocatalytic Activity of Pt-Cu Nanocube Catalysts for Formic Acid Oxidation. <i>Angewandte Chemie</i> , 2010 , 122, 1304-1307	3.6	46
156	Oxygen reduction reaction catalysts of manganese oxide decorated by silver nanoparticles for aluminum-air batteries. <i>Electrochimica Acta</i> , 2016 , 214, 49-55	6.7	46
155	Distinguishing thermal lens effect from electronic third-order nonlinear self-phase modulation in liquid suspensions of 2D nanomaterials. <i>Nanoscale</i> , 2017 , 9, 3547-3554	7.7	45
154	Synthetic methodologies for carbon nanomaterials. <i>Advanced Materials</i> , 2010 , 22, 1963-6	24	45
153	Localized concentration reversal of lithium during intercalation into nanoparticles. <i>Science Advances</i> , 2018 , 4, eaao2608	14.3	44
152	Performances of an $\text{Al}_{0.15}\text{Bi}_{0.15}\text{Pb}_{0.035}\text{Ga}$ alloy as an anode for Al/Bi batteries in neutral and alkaline electrolytes. <i>RSC Advances</i> , 2017 , 7, 25838-25847	3.7	43

151	Identifying the chemical and structural irreversibility in $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ a model compound for classical layered intercalation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4189-4198	13	41
150	Two-Dimensional Porous Micro/Nano Metal Oxides Templated by Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11984-90	9.5	41
149	Synthesis of Three-Dimensional Nanoporous Li-Rich Layered Cathode Oxides for High Volumetric and Power Energy Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3661-3666	8.5	39
148	Enhanced high voltage cyclability of LiCoO_2 cathode by adopting poly[bis-(ethoxyethoxyethoxy)phosphazene] with flame-retardant property as an electrolyte additive for lithium-ion batteries. <i>Applied Surface Science</i> , 2017 , 403, 260-266	6.7	35
147	Electrocatalytic activity of silver decorated ceria microspheres for the oxygen reduction reaction and their application in aluminium-air batteries. <i>Chemical Communications</i> , 2017 , 53, 7921-7924	5.8	35
146	Scalable in Situ Synthesis of LiTiO /Carbon Nanohybrid with Supersmall LiTiO Nanoparticles Homogeneously Embedded in Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2591-2602	9.5	35
145	One-Pot Synthesis of Co O / Ag Nanoparticles Supported on N-Doped Graphene as Efficient Bifunctional Oxygen Catalysts for Flexible Rechargeable Zinc-Air Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 14816-14823	4.8	33
144	Green facile scalable synthesis of titania/carbon nanocomposites: new use of old dental resins. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18461-8	9.5	33
143	Enhanced Bifunctional Catalytic Activity of Manganese Oxide/Perovskite Hierarchical Core-Shell Materials by Adjusting the Interface for Metal-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25870-25881	9.5	32
142	Fluorinated Electrolytes for Li-Ion Batteries: The Lithium Difluoro(oxalato)borate Additive for Stabilizing the Solid Electrolyte Interphase. <i>ACS Omega</i> , 2017 , 2, 8741-8750	3.9	32
141	Silicon Oxycarbide/Carbon Nanohybrids with Tiny Silicon Oxycarbide Particles Embedded in Free Carbon Matrix Based on Photoactive Dental Methacrylates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13982-92	9.5	32
140	Cerium ion intercalated MnO_2 nanospheres with high catalytic activity toward oxygen reduction reaction for aluminum-air batteries. <i>Electrochimica Acta</i> , 2018 , 263, 544-554	6.7	31
139	Synthesis and electrochemical performance of micro-sized Li-rich layered cathode material for Lithium-ion batteries. <i>Electrochimica Acta</i> , 2016 , 211, 507-514	6.7	31
138	Promoting effects of $\text{Ce}_{0.75}\text{Zr}_{0.25}\text{O}_2$ on the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ electrocatalyst for the oxygen reduction reaction in metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6411-6415	13	30
137	Eliminating voltage decay of lithium-rich $\text{Li}_{1.14}\text{Mn}_{0.54}\text{Ni}_{0.14}\text{Co}_{0.14}\text{O}_2$ cathodes by controlling the electrochemical process. <i>Chemistry - A European Journal</i> , 2015 , 21, 7503-10	4.8	30
136	New perspective to understand the effect of electrochemical prelithiation behaviors on silicon monoxide.. <i>RSC Advances</i> , 2018 , 8, 14473-14478	3.7	30
135	A new family of Mn-based perovskite ($\text{La}_{1-x}\text{Y}_x\text{MnO}_3$) with improved oxygen electrocatalytic activity for metal-air batteries. <i>Energy</i> , 2018 , 154, 561-570	7.9	30
134	Facile synthesis of ternary spinel CoMnNi nanorods as efficient bi-functional oxygen catalysts for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2019 , 435, 226761	8.9	30

133	5 V-Class Electrolytes Based on Fluorinated Solvents for Li-Ion Batteries with Excellent Cyclability. <i>ChemElectroChem</i> , 2015 , 2, 1707-1712	4.3	30
132	Nitrogen-Doped Graphene Nanoscroll Foam with High Diffusion Rate and Binding Affinity for Removal of Organic Pollutants. <i>Small</i> , 2017 , 13, 1603779	11	29
131	Facile Scalable Synthesis of TiO ₂ /Carbon Nanohybrids with Ultrasmall TiO ₂ Nanoparticles Homogeneously Embedded in Carbon Matrix. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24247-55	9.5	29
130	Scalable synthesis of Si nanowires interconnected SiO _x anode for high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 128-135	5.7	29
129	Highly Reversible Li Plating Confined in Three-Dimensional Interconnected Microchannels toward High-Rate and Stable Metallic Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20387-20395	9.5	29
128	Solution-Processed Transparent Conducting Electrodes for Flexible Organic Solar Cells with 16.61% Efficiency. <i>Nano-Micro Letters</i> , 2021 , 13, 44	19.5	27
127	Niobium carbide/reduced graphene oxide hybrid porous aerogel as high capacity and long-life anode material for Li-ion batteries. <i>International Journal of Energy Research</i> , 2019 , 43, 4995-5003	4.5	26
126	Oxidation Decomposition Mechanism of Fluoroethylene Carbonate-Based Electrolytes for High-Voltage Lithium Ion Batteries: A DFT Calculation and Experimental Study. <i>ChemistrySelect</i> , 2017 , 2, 7353-7361	1.8	26
125	Silver nanoparticles supported on a nitrogen-doped graphene aerogel composite catalyst for an oxygen reduction reaction in aluminum air batteries. <i>RSC Advances</i> , 2016 , 6, 99179-99183	3.7	26
124	Competitive Solvation-Induced Concurrent Protection on the Anode and Cathode toward a 400 Wh kg ⁻¹ Lithium Metal Battery. <i>ACS Energy Letters</i> , 2021 , 6, 115-123	20.1	25
123	La _{0.7} (Sr _{0.3-x} Pdx)MnO ₃ as a highly efficient electrocatalyst for oxygen reduction reaction in aluminum air battery. <i>Electrochimica Acta</i> , 2017 , 230, 418-427	6.7	24
122	La _{1-x} Ag _x MnO ₃ electrocatalyst with high catalytic activity for oxygen reduction reaction in aluminium air batteries. <i>RSC Advances</i> , 2017 , 7, 5214-5221	3.7	24
121	A bifunctional hierarchical porous carbon network integrated with an in situ formed ultrathin graphene shell for stable lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13674-13682	13	24
120	Hydrothermal self-assembly of graphene foams with controllable pore size. <i>RSC Advances</i> , 2016 , 6, 20843-20849	3.7	24
119	Oriented Arrangement: The Origin of Versatility for Porous Graphene Materials. <i>Small</i> , 2017 , 13, 1701231	11	24
118	Graphene network nested Cu foam for reducing size of lithium metal towards stable metallic lithium anode. <i>Energy Storage Materials</i> , 2019 , 21, 107-114	19.4	24
117	One-pot synthesis of La _{0.7} Sr _{0.3} MnO ₃ supported on flower-like CeO ₂ as electrocatalyst for oxygen reduction reaction in aluminum-air batteries. <i>Journal of Power Sources</i> , 2017 , 358, 50-60	8.9	23
116	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100028-100028	6.1	23

115	Ordered self-assembly of amphipathic graphene nanosheets into three-dimensional layered architectures. <i>Nanoscale</i> , 2016 , 8, 197-203	7.7	23
114	Effect of alumina on the curvature, Young's modulus, thermal expansion coefficient and residual stress of planar solid oxide fuel cells. <i>Journal of Power Sources</i> , 2011 , 196, 7639-7644	8.9	23
113	TiO ₂ (B)/CNT/graphene ternary composite anode material for lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 22449-22454	3.7	20
112	Template-directed fabrication of porous gas diffusion layer for magnesium air batteries. <i>Journal of Power Sources</i> , 2015 , 297, 202-207	8.9	20
111	A LiPO ₂ F ₂ /LiFSI dual-salt electrolyte enabled stable cycling of lithium metal batteries. <i>Journal of Power Sources</i> , 2018 , 400, 449-456	8.9	20
110	Polyethylene Glycol-Na Interface of Vanadium Hexacyanoferrate Cathode for Highly Stable Rechargeable Aqueous Sodium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28762-28788	8.5	20
109	Planar Alignment of Graphene Sheets by a Rotating Magnetic Field for Full Exploitation of Graphene as a 2D Material. <i>Advanced Functional Materials</i> , 2018 , 28, 1805255	15.6	20
108	Structure-preserved 3D porous silicon/reduced graphene oxide materials as anodes for Li-ion batteries. <i>RSC Advances</i> , 2017 , 7, 24305-24311	3.7	19
107	Controlling siloxene oxidization to tailor SiO _x anodes for high performance lithium ion batteries. <i>Journal of Power Sources</i> , 2019 , 432, 65-72	8.9	19
106	Attapulgite nanofibers and graphene oxide composite membrane for high-performance molecular separation. <i>Journal of Colloid and Interface Science</i> , 2019 , 545, 276-281	9.3	19
105	Ultrasmall Co ₃ O ₄ Nanoparticles Confined in P, N-Doped Carbon Matrices for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9225-9232	3.8	19
104	Hierarchical porous MnO/graphene composite aerogel as high-performance anode material for lithium ion batteries. <i>RSC Advances</i> , 2017 , 7, 15857-15863	3.7	18
103	Physicochemical and Electrochemical Properties of 1,1,2,2-Tetrafluoroethyl-2,2,3,3-Tetrafluoropropyl Ether as a Co-Solvent for High-Voltage Lithium-Ion Electrolytes. <i>ChemElectroChem</i> , 2019 , 6, 3747-3755	4.3	18
102	Dental Resin Monomer Enables Unique NbO ₂ /Carbon Lithium-Ion Battery Negative Electrode with Exceptional Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1904961	15.6	18
101	Graphene wrapped silicon suboxides anodes with suppressed Li-uptake behavior enabled superior cycling stability. <i>Energy Storage Materials</i> , 2021 , 35, 317-326	19.4	18
100	Double-helix-superstructure aqueous binder to boost excellent electrochemical performance in Li-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2019 , 420, 29-37	8.9	17
99	Revisiting the open-framework zinc hexacyanoferrate: The role of ternary electrolyte and sodium-ion intercalation mechanism. <i>Journal of Power Sources</i> , 2018 , 380, 135-141	8.9	17
98	A compressible and hierarchical porous graphene/Co composite aerogel for lithium-ion batteries with high gravimetric/volumetric capacity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6021-6028	13	17

97	Understanding the Discrepancy of Defect Kinetics on Anionic Redox in Lithium-Rich Cathode Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14023-14034	9.5	16
96	Vapor-assisted synthesis of hierarchical porous graphitic carbon materials towards energy storage devices. <i>Journal of Power Sources</i> , 2019 , 425, 10-16	8.9	16
95	From 0 °C to 150 °C: a lithium secondary battery with a wide temperature window obtained via manipulated competitive decomposition in electrolyte solution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9307-9318	13	16
94	Vacuum-Free, All-Solution, and All-Air Processed Organic Photovoltaics with over 11% Efficiency and Promoted Stability Using Layer-by-Layer Codoped Polymeric Electrodes. <i>Solar Rrl</i> , 2020 , 4, 1900543	7.1	15
93	Graphene/Sulfur Composites with a Foam-Like Porous Architecture and Controllable Pore Size for High Performance Lithium-Sulfur Batteries. <i>ChemNanoMat</i> , 2016 , 2, 952-958	3.5	15
92	Stabilization effects of Al doping for enhanced cycling performances of Li-rich layered oxides. <i>Ceramics International</i> , 2017 , 43, 13845-13852	5.1	15
91	Slurry-like hybrid electrolyte with high lithium-ion transference number for dendrite-free lithium metal anode. <i>Journal of Energy Chemistry</i> , 2020 , 48, 375-382	12	14
90	Surface oxo-functionalized hard carbon spheres enabled superior high-rate capability and long-cycle stability for Li-ion storage. <i>Electrochimica Acta</i> , 2018 , 260, 430-438	6.7	14
89	Regulating capillary pressure to achieve ultralow areal mass loading metallic lithium anodes. <i>Energy Storage Materials</i> , 2019 , 23, 693-700	19.4	14
88	Graphene Modified Polyaniline-Hydrogel Based Stretchable Supercapacitor with High Capacitance and Excellent Stretching Stability. <i>ChemSusChem</i> , 2021 , 14, 938-945	8.3	14
87	Superior cycling performance of a sandwich structure Si/C anode for lithium ion batteries. <i>RSC Advances</i> , 2016 , 6, 12107-12113	3.7	13
86	Graphene/Sulfur/Carbon Nanocomposite for High Performance Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2015 , 5, 1481-1492	5.4	13
85	Si/C nanocomposite anode materials by freeze-drying with enhanced electrochemical performance in lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2733-2738	2.6	13
84	Fabrication of porous anode-support for planar solid oxide fuel cell using fish oil as a pore former. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 8533-8541	6.7	13
83	Facile fabrication of nanoporous graphene powder for high-rate lithium-sulfur batteries. <i>RSC Advances</i> , 2017 , 7, 5177-5182	3.7	12
82	Composite membrane with ultra-thin ion exchangeable functional layer: a new separator choice for manganese-based cathode material in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7006-7013	13	12
81	Improving catalytic activity of layered lithium transition metal oxides for oxygen electrode in metal-air batteries. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1846-1856	6.7	12
80	Flexible asymmetric microsupercapacitor with high energy density based on all-graphene electrode system. <i>Journal of Materials Science</i> , 2020 , 55, 309-318	4.3	12

79	All annealing-free solution-processed highly flexible organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5425-5433	13	12
78	Solvent evaporation induced self-assembly of graphene foam for thermally conductive polymers. <i>RSC Advances</i> , 2017 , 7, 15469-15474	3.7	11
77	MnO/Metal/Carbon Nanohybrid Lithium-Ion Battery Anode With Enhanced Electrochemical Performance: Universal Facile Scalable Synthesis and Fundamental Understanding. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900335	4.6	11
76	Ultrafast Heterogeneous Nucleation Enables a Hierarchical Surface Configuration of Lithium-Rich Layered Oxide Cathode Material for Enhanced Electrochemical Performances. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701465	4.6	11
75	Role of Nickel Nanoparticles in High-Performance TiO ₂ /Ni/Carbon Nanohybrid Lithium/Sodium-Ion Battery Anodes. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1557-1569	4.5	10
74	Depressing the irreversible reactions on a three-dimensional interface towards a high-areal capacity lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6267-6274	13	10
73	Microporous Binder for the Silicon-Based Lithium-Ion Battery Anode with Exceptional Rate Capability and Improved Cyclic Performance. <i>Langmuir</i> , 2020 , 36, 2003-2011	4	10
72	All graphene electrode for high-performance asymmetric supercapacitor. <i>International Journal of Energy Research</i> , 2020 , 44, 1244-1255	4.5	10
71	Rational Design and Mechanical Understanding of Three-Dimensional Macro-/Mesoporous Silicon Lithium-Ion Battery Anodes with a Tunable Pore Size and Wall Thickness. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43785-43797	9.5	10
70	Anode supported planar solid oxide fuel cells with the large size of 30cm ² ×30cm ² via tape-casting and co-sintering technique. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1871-1876	6.7	10
69	Study on the fracture behavior of the planar-type solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 355-362	5.7	10
68	A Nano-Architected Metal-Oxide/Perovskite Hybrid Material as Electrocatalyst for the Oxygen Reduction Reaction in Aluminum-Air Batteries. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6824-6833	5.6	10
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34	In Situ Incorporation of Super-Small Metallic High Capacity Nanoparticles and Mesoporous Structures for High-Performance TiO ₂ /SnO ₂ /Sn/Carbon Nanohybrid Lithium-Ion Battery Anodes. <i>Energy Technology</i> , 2020 , 8, 2000034	3.5	3
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20	Continuous fast pyrolysis synthesis of TiO ₂ /C nanohybrid lithium-ion battery anode. <i>Nano Select</i> , 2021 , 2, 1770-1778	3.1	1
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