

# Zhongchao Bai

## List of Publications by Year in Descending Order

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

184  
papers

11,364  
citations

61  
h-index

101  
g-index

199  
ext. papers

13,800  
ext. citations

11.2  
avg, IF

6.84  
L-index

#	Paper	IF	Citations
184	Homologous Nitrogen-Doped Hierarchical Carbon Architectures Enabling Compatible Anode and Cathode for Potassium-Ion Hybrid Capacitors.. <i>Small</i> , <b>2022</b> , e2107139	11	2
183	Molybdenum chalcogenides based anode materials for alkali metal ions batteries: Beyond lithium ion batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 50, 308-333	19.4	1
182	Prussian blue analogues for sodium-ion batteries: past, present and future.. <i>Advanced Materials</i> , <b>2021</b> , e2108384	24	19
181	Interfacial Manipulation via In Situ Grown ZnSe Cultivator toward Highly Reversible Zn Metal Anodes. <i>Advanced Materials</i> , <b>2021</b> , e2105951	24	45
180	Processing Rusty Metals into Versatile Prussian Blue for Sustainable Energy Storage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2102356	21.8	9
179	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. <i>Small</i> , <b>2021</b> , 17, e2005573	11	6
178	A P3-Type KMnMgNiO Cathode Material for Potassium-Ion Batteries with High Structural Reversibility Secured by the Mg-Ni Pinning Effect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28369-28377	9.5	8
177	Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework. <i>Nature Communications</i> , <b>2021</b> , 12, 4519	17.4	29
176	Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. <i>ACS Nano</i> , <b>2021</b> , 15, 2197-2218	16.7	58
175	Recent Advances and Perspective on Electrochemical Ammonia Synthesis under Ambient Conditions.. <i>Small Methods</i> , <b>2021</b> , 5, e2100460	12.8	2
174	High-strength scalable MXene films through bridging-induced densification. <i>Science</i> , <b>2021</b> , 374, 96-99	33.3	64
173	Non-carbon-supported single-atom site catalysts for electrocatalysis. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2809-2858	35.4	66
172	Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metal-air battery systems. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6671-6693	13	15
171	Perspective on solid-electrolyte interphase regulation for lithium metal batteries. <i>SmartMat</i> , <b>2021</b> , 2, 5-11	22.8	35
170	The Progress of Cobalt-Based Anode Materials for Lithium Ion Batteries and Sodium Ion Batteries. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3098	2.6	5
169	Anodic Oxidation Strategy toward Structure-Optimized VO Cathode Electrolyte Regulation for Zn-Ion Storage. <i>ACS Nano</i> , <b>2020</b> , 14, 7328-7337	16.7	101
168	Confining TiO Nanotubes in PECVD-Enabled Graphene Capsules Toward Ultrafast K-Ion Storage: In Situ TEM/XRD Study and DFT Analysis. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 123	19.5	18

167	Enhanced Kinetics Harvested in Heteroatom Dual-Doped Graphitic Hollow Architectures toward High Rate Printable Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001161	21.8	91
166	Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000151	24	56
165	Laser-Generated Supranano Liquid Metal as Efficient Electron Mediator in Hybrid Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001571	24	30
164	FeS <sub>2</sub> @C nanorods embedded in three-dimensional graphene as high-performance anode for sodium-ion batteries. <i>Frontiers of Materials Science</i> , <b>2020</b> , 14, 255-265	2.5	5
163	Ultrathin MoSe <sub>2</sub> Nanosheets Confined in N-doped Macroporous Carbon Frame for Enhanced Potassium Ion Storage. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2412-2418	1.8	13
162	ZIF-8@ZIF-67-Derived Nitrogen-Doped Porous Carbon Confined CoP Polyhedron Targeting Superior Potassium-Ion Storage. <i>Small</i> , <b>2020</b> , 16, e1906566	11	78
161	Research Progress of Electromagnetic Properties of MgB <sub>2</sub> Induced by Carbon-Containing Materials Addition and Process Techniques. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 471-489	2.5	4
160	Mo <sub>2</sub> C@3D ultrathin macroporous carbon realizing efficient and stable nitrogen fixation. <i>Science China Chemistry</i> , <b>2020</b> , 63, 1570-1577	7.9	13
159	Revealing the Critical Factor in Metal Sulfide Anode Performance in Sodium-Ion Batteries: An Investigation of Polysulfide Shuttling Issues. <i>Small Methods</i> , <b>2020</b> , 4, 1900673	12.8	25
158	Anode Materials: Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage (Adv. Energy Mater. 1/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070002	21.8	1
157	Hierarchical nanoarchitected hybrid electrodes based on ultrathin MoSe <sub>2</sub> nanosheets on 3D ordered macroporous carbon frameworks for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2843-2850	13	31
156	High-performance room-temperature sodium-sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 562-570	35.4	98
155	An engineered self-supported electrocatalytic cathode and dendrite-free composite anode based on 3D double-carbon hosts for advanced LiFeS <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2969-2983	13	49
154	Compressed Nanolamella-Stacked Ni(OH) <sub>2</sub> /NiCo <sub>2</sub> O <sub>4</sub> Composite as Electrode for Battery-Type Supercapacitor. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 548-556	5.6	6
153	Realizing Reversible Conversion-Alloying of Sb(V) in Polyantimonic Acid for Fast and Durable Lithium- and Potassium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903119	21.8	41
152	Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903006	21.8	34
151	Selenium@Hollow mesoporous carbon composites for high-rate and long-cycling lithium/sodium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123676	14.7	33
150	Suppressed Shuttle via Inhibiting the Formation of Long-Chain Lithium Polysulfides and Functional Separator for Greatly Improved Lithium/Organosulfur Batteries Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902695	21.8	15

149	FeS <sub>2</sub> @TiO <sub>2</sub> nanorods as high-performance anode for sodium ion battery. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 28, 2699-2706	3.2	7
148	Solid Electrolyte Interphases on Sodium Metal Anodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004891	15.6	56
147	FeS <sub>2</sub> nanoparticles embedded in N/S co-doped porous carbon fibers as anode for sodium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122455	14.7	67
146	Self-Supported Nonprecious MXene/Ni <sub>3</sub> S <sub>2</sub> Electrocatalysts for Efficient Hydrogen Generation in Alkaline Media. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6931-6938	6.1	26
145	Structural Degradation of Cu Current Collector During Electrochemical Cycling of Sn-Based Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 7543-7550	1.9	7
144	Heterostructures of Ni <sub>2</sub> CoAl layered double hydroxide assembled on V <sub>4</sub> C <sub>3</sub> MXene for high-energy hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2291-2300	13	93
143	Stabilizing the structure of LiMnFePO <sub>4</sub> via the formation of concentration-gradient hollow spheres with Fe-rich surfaces. <i>Nanoscale</i> , <b>2019</b> , 11, 3933-3944	7.7	19
142	Ultratough nacre-inspired epoxy-graphene composites with shape memory properties. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 2787-2794	13	34
141	Reaktitelbild: Ultra-Tough Inverse Artificial Nacre Based on Epoxy-Graphene by Freeze-Casting (Angew. Chem. 23/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7962-7962	3.6	
140	Design strategies for developing non-precious metal based bi-functional catalysts for alkaline electrolyte based zinc-air batteries. <i>Materials Horizons</i> , <b>2019</b> , 6, 1812-1827	14.4	52
139	Boosting Superconducting Properties of Fe(Se, Te) via Dual-Oscillation Phenomena Induced by Fluorine Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 18825-18832	9.5	3
138	Effect of Polypyrrole Coating on Lithium Storage for Hollow Sb Microspheres. <i>Journal of Electronic Materials</i> , <b>2019</b> , 48, 2233-2241	1.9	2
137	Spherical nano Sb@HCMs as high-rate and superior cycle performance anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 795, 141-150	5.7	11
136	Ultra-Tough Inverse Artificial Nacre Based on Epoxy-Graphene by Freeze-Casting. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7636-7640	16.4	53
135	Promoting solar-to-hydrogen evolution on Schottky interface with mesoporous TiO <sub>2</sub> -Cu hybrid nanostructures. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 545, 116-127	9.3	39
134	Ultra-Tough Inverse Artificial Nacre Based on Epoxy-Graphene by Freeze-Casting. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7718-7722	3.6	5
133	A S/N-doped high-capacity mesoporous carbon anode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11976-11984	13	50
132	Rayleigh-Instability-Induced Bismuth Nanorod@Nitrogen-Doped Carbon Nanotubes as A Long Cycling and High Rate Anode for Sodium-Ion Batteries. <i>Nano Letters</i> , <b>2019</b> , 19, 1998-2004	11.5	101

131	Bio-Derived Hierarchical Multicore-Shell FeN-Nanoparticle-Impregnated N-Doped Carbon Nanofiber Bundles: A Host Material for Lithium-/Potassium-Ion Storage. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 56	19.5	31
130	General Synthetic Strategy for Pomegranate-like Transition-Metal [email protected] Carbon Nanostructures with High Lithium Storage Capacity <b>2019</b> , 1, 265-271		20
129	A new reflowing strategy based on lithiophilic substrates towards smooth and stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18126-18134	13	18
128	Catalytic Activity Boosting of Nickel Sulfide toward Oxygen Evolution Reaction via Confined Overdoping Engineering. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5363-5372	6.1	24
127	Recent Advances in Cu-Based Cocatalysts toward Solar-to-Hydrogen Evolution: Categories and Roles. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900256	7.1	31
126	Construction of Structure-Tunable Si@Void@C Anode Materials for Lithium-Ion Batteries through Controlling the Growth Kinetics of Resin. <i>ACS Nano</i> , <b>2019</b> , 13, 12219-12229	16.7	76
125	Confining MOF-derived SnSe nanoplatelets in nitrogen-doped graphene cages via direct CVD for durable sodium ion storage. <i>Nano Research</i> , <b>2019</b> , 12, 3051-3058	10	39
124	Hierarchical assembly and superior lithium/sodium storage properties of a flowerlike C/SnS@C nanocomposite. <i>Electrochimica Acta</i> , <b>2019</b> , 296, 891-900	6.7	34
123	Interpreting Abnormal Charge-Discharge Plateau Migration in Cu S during Long-Term Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 3961-3970	9.5	23
122	Recent progress on liquid metals and their applications. <i>Advances in Physics: X</i> , <b>2018</b> , 3, 1446359	5.1	48
121	Heterostructured Nanorings of Fe-FeO@C Hybrid with Enhanced Microwave Absorption Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9369-9378	9.5	180
120	Defect Sites-Rich Porous Carbon with Pseudocapacitive Behaviors as an Ultrafast and Long-Term Cycling Anode for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9353-9361	9.5	63
119	Synergistically Enhanced Interfacial Interaction to Polysulfide via N,O Dual-Doped Highly Porous Carbon Microrods for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13573-13580	9.5	42
118	Nanoconfined SnS in 3D interconnected macroporous carbon as durable anodes for lithium/sodium ion batteries. <i>Carbon</i> , <b>2018</b> , 134, 222-231	10.4	94
117	One dimensional hierarchical nanostructures composed of CdS nanosheets/nanoparticles and Ag nanowires with promoted photocatalytic performance. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 903-915	6.8	9
116	Co9S8@carbon nanospheres as high-performance anodes for sodium ion battery. <i>Chemical Engineering Journal</i> , <b>2018</b> , 343, 512-519	14.7	86
115	Nanostructured Bi2S3 encapsulated within three-dimensional N-doped graphene as active and flexible anodes for sodium-ion batteries. <i>Nano Research</i> , <b>2018</b> , 11, 4614-4626	10	65
114	Extremely rapid engineering of zinc oxide nanoaggregates with structure-dependent catalytic capability towards removal of ciprofloxacin antibiotic. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2432-2444	6.8	13

113	Comprehensive New Insights and Perspectives into Ti-Based Anodes for Next-Generation Alkaline Metal (Na <sup>+</sup> , K <sup>+</sup> ) Ion Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801888	21.8	100
112	Interwoven V <sub>2</sub> O <sub>5</sub> nanowire/graphene nanoscroll hybrid assembled as efficient polysulfide-trapping-conversion interlayer for long-life lithium/sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19358-19370	13	65
111	Superhydrophobic Shape Memory Polymer Arrays with Switchable Isotropic/Anisotropic Wetting. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705002	15.6	120
110	Metal-Organic Framework-Derived Sea-Cucumber-like FeS <sub>2</sub> @C Nanorods with Outstanding Pseudocapacitive Na-Ion Storage Properties. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6234-6241	6.1	29
109	Electrochemical performance and morphological evolution of hollow Sn microspheres. <i>Solid State Ionics</i> , <b>2018</b> , 325, 120-127	3.3	11
108	Boosting Sodium Storage of Double-Shell Sodium Titanate Microspheres Constructed from 2D Ultrathin Nanosheets via Sulfur Doping. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804157	24	61
107	A 3D conductive scaffold with lithiophilic modification for stable lithium metal batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17967-17976	13	45
106	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. <i>Nano Research</i> , <b>2017</b> , 10, 1268-1281	10	36
105	Improvement of thermoelectric properties and their correlations with electron effective mass in CuSSe. <i>Scientific Reports</i> , <b>2017</b> , 7, 40436	4.9	25
104	A novel reusable superhydrophilic NiO/Ni mesh produced by a facile fabrication method for superior oil/water separation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10821-10826	13	83
103	Recent Progress in the Design of Advanced Cathode Materials and Battery Models for High-Performance Lithium-X (X = O, S, Se, Te, I, Br) Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606454	24	194
102	New insight into magneto-structural phase transitions in layered TbMnGe-based compounds. <i>Scientific Reports</i> , <b>2017</b> , 7, 45814	4.9	4
101	A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12073-12079	13	24
100	Three-Stage Inter-Orthorhombic Evolution and High Thermoelectric Performance in Ag-Doped Nanolaminar SnSe Polycrystals. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700573	21.8	37
99	One-Dimensional Yolk-Shell Sb@Ti-O-P Nanostructures as a High-Capacity and High-Rate Anode Material for Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 447-454	9.5	68
98	Insights into the structure-induced catalysis dependence of simply engineered one-dimensional zinc oxide nanocrystals towards photocatalytic water purification. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 2075-2087	6.8	10
97	Tuning the magnetic and structural transitions in TbCo <sub>2</sub> Mn <sub>x</sub> compounds. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	11
96	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 9048-9056	16.7	64

95	Mass Production and Pore Size Control of Holey Carbon Microcages. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 13978-13982	3.6	8
94	Mass Production and Pore Size Control of Holey Carbon Microcages. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 13790-13794	16.4	34
93	Fabrication of Hierarchical Porous Carbon Nanoflakes for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 34944-34953	9.5	57
92	Metal-Free Carbon Materials for CO Electrochemical Reduction. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701784	24	385
91	Atomically Thin Transition-Metal Dichalcogenides for Electrocatalysis and Energy Storage. <i>Small Methods</i> , <b>2017</b> , 1, 1700156	12.8	82
90	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702007	24	196
89	Desert Beetle-Inspired Superwetable Patterned Surfaces for Water Harvesting. <i>Small</i> , <b>2017</b> , 13, 1701403	11	110
88	Bio-Nanotechnology in High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700592	21.8	126
87	Chevrel Phase Mo T (T = S, Se) as Electrodes for Advanced Energy Storage. <i>Small</i> , <b>2017</b> , 13, 1701441	11	37
86	A Flexible 3D Multifunctional MgO-Decorated Carbon Foam@CNTs Hybrid as Self-Supported Cathode for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702573	15.6	138
85	Point defect induced giant enhancement of flux pinning in Co-doped FeSe <sub>0.5</sub> Te <sub>0.5</sub> superconducting single crystals. <i>AIP Advances</i> , <b>2017</b> , 7, 115016	1.5	4
84	In Operando Mechanism Analysis on Nanocrystalline Silicon Anode Material for Reversible and Ultrafast Sodium Storage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604708	24	75
83	Facile Synthesis of Sulfur Polypyrrole as Cathodes for Lithium Sulfur Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 115-121	4.3	43
82	Evidence for superior current carrying capability of iron pnictide tapes under hydrostatic pressure. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	20
81	Facile Synthesis of Ni Zn Fe O (x=0, 0.25, 0.5, 0.75, 1) as Anode Materials for Lithium Storage. <i>ChemPlusChem</i> , <b>2016</b> , 81, 1174-1181	2.8	10
80	Ambient Aqueous Synthesis of Ultrasmall PEGylated Cu Se Nanoparticles as a Multifunctional Theranostic Agent for Multimodal Imaging Guided Photothermal Therapy of Cancer. <i>Advanced Materials</i> , <b>2016</b> , 28, 8927-8936	24	223
79	Nitrogen-Doped Graphene Ribbon Assembled Core-Shell MnO@Graphene Scrolls as Hierarchically Ordered 3D Porous Electrodes for Fast and Durable Lithium Storage. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7754-7765	15.6	210
78	Hollow Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> micro-spheres synthesized by a co-precipitation method as a high-performance cathode material for Li-ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 70091-70098	3.7	15

77	Photothermal Therapy: Ambient Aqueous Synthesis of Ultrasmall PEGylated Cu <sub>2</sub> Se Nanoparticles as a Multifunctional Theranostic Agent for Multimodal Imaging Guided Photothermal Therapy of Cancer (Adv. Mater. 40/2016). <i>Advanced Materials</i> , <b>2016</b> , 28, 8788-8788	24	6
76	Porous Co <sub>2</sub> O <sub>4</sub> Nanorods as High Performance Anode Material for Lithium Ion Batteries. <i>Jom</i> , <b>2016</b> , 68, 2952-2957	2.1	7
75	Double-Walled Sb@TiO <sub>2-x</sub> Nanotubes as a Superior High-Rate and Ultralong-Lifespan Anode Material for Na-Ion and Li-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 4126-33	24	340
74	A Green and Facile Way to Prepare Granadilla-Like Silicon-Based Anode Materials for Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 440-446	15.6	161
73	Ever-Increasing Pseudocapacitance in RGOMnORGO Sandwich Nanostructures for Ultrahigh-Rate Lithium Storage. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2198-2206	15.6	204
72	Prussian Blue@C Composite as an Ultrahigh-Rate and Long-Life Sodium-Ion Battery Cathode. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 5315-5321	15.6	241
71	Interconnected honeycomb-like porous carbon derived from plane tree fluff for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10869-10877	13	68
70	Ambient controlled synthesis of advanced core-shell plasmonic Ag@ZnO photocatalysts. <i>CrystEngComm</i> , <b>2016</b> , 18, 1713-1722	3.3	40
69	Ambient synthesis of a multifunctional 1D/2D hierarchical Ag@Ag <sub>2</sub> S nanowire/nanosheet heterostructure with diverse applications. <i>CrystEngComm</i> , <b>2016</b> , 18, 930-937	3.3	31
68	Three-dimensional controlled growth of monodisperse sub-50 nm heterogeneous nanocrystals. <i>Nature Communications</i> , <b>2016</b> , 7, 10254	17.4	205
67	Large-scale synthesis of NiO polyhedron nanocrystals as high-performance anode materials for lithium ion batteries. <i>Materials Letters</i> , <b>2016</b> , 168, 5-8	3.3	14
66	Facile Fabrication of Dendritic Mesoporous SiO <sub>2</sub> @CdTe@SiO <sub>2</sub> Fluorescent Nanoparticles for Bioimaging. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 261-270	3.1	26
65	Lithium-Ion Batteries: A Green and Facile Way to Prepare Granadilla-Like Silicon-Based Anode Materials for Li-Ion Batteries (Adv. Funct. Mater. 3/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 468-468	15.6	1
64	Lead-free SnTe-based thermoelectrics: enhancement of thermoelectric performance by doping with Gd/Ag. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7936-7942	13	66
63	Tuning the morphology of Co <sub>3</sub> O <sub>4</sub> on Ni foam for supercapacitor application. <i>RSC Advances</i> , <b>2016</b> , 6, 45783-45790	3.7	30
62	Ruthenium nanocrystal decorated vertical graphene nanosheets@Ni foam as highly efficient cathode catalysts for lithium-oxygen batteries. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e286-e286	10.3	39
61	Hierarchical Vanadium Pentoxide Spheres as High-Performance Anode Materials for Sodium-Ion Batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 2877-82	8.3	35
60	Crossover of Magnetoresistance from Fourfold to Twofold Symmetry in SmB <sub>6</sub> Single Crystal, a Topological Kondo Insulator. <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 044717	1.5	15



59	Two-Dimensional Tin Disulfide Nanosheets for Enhanced Sodium Storage. <i>ACS Nano</i> , <b>2015</b> , 9, 11371-81	16.7	231
58	Anatase TiO <sub>2</sub> : Better Anode Material Than Amorphous and Rutile Phases of TiO <sub>2</sub> for Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6022-6029	9.6	233
57	Porous ZnMn <sub>2</sub> O <sub>4</sub> nanowires as an advanced anode material for lithium ion battery. <i>Electrochimica Acta</i> , <b>2015</b> , 182, 1140-1144	6.7	39
56	Polypyrrole hollow nanospheres: stable cathode materials for sodium-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 16092-5	5.8	57
55	Nitrogen-doped carbon nanofibers with effectively encapsulated GeO <sub>2</sub> nanocrystals for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 21699-21705	13	36
54	Enhanced Reaction Kinetics and Structure Integrity of Ni/SnO <sub>2</sub> Nanocluster toward High-Performance Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26367-73	9.5	31
53	Ultrathin MoS <sub>2</sub> Nanosheets as Anode Materials for Sodium-Ion Batteries with Superior Performance. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401205	21.8	301
52	Aqueous preparation of surfactant-free copper selenide nanowires. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 442, 140-6	9.3	48
51	Giant enhancement in critical current density, up to a hundredfold, in superconducting NaFe <sub>0.97</sub> Co <sub>0.03</sub> As single crystals under hydrostatic pressure. <i>Scientific Reports</i> , <b>2015</b> , 5, 10606	4.9	20
50	Hierarchical MoS <sub>2</sub> @Carbon Microspheres as Advanced Anodes for Li-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 18187-91	4.8	47
49	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1328-1328	15.6	6
48	High thermoelectric and mechanical performance in highly dense Cu <sub>2</sub> Se bulks prepared by a melt-solidification technique. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9432-9437	13	129
47	Monodisperse core-shell structured magnetic mesoporous aluminosilicate nanospheres with large dendritic mesochannels. <i>Nano Research</i> , <b>2015</b> , 8, 2503-2514	10	70
46	Nanoarrays: design, preparation and supercapacitor applications. <i>RSC Advances</i> , <b>2015</b> , 5, 55856-55869	3.7	53
45	Electrospinning of crystalline MoO <sub>3</sub> @C nanofibers for high-rate lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3257-3260	13	61
44	Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1170-1179	15.6	146
43	Bismuth: A new anode for the Na-ion battery. <i>Nano Energy</i> , <b>2015</b> , 12, 88-95	17.1	192
42	The Effects of Te <sub>2</sub> and I <sub>2</sub> Substitutions on the Electronic Structures, Thermoelectric Performance, and Hardness in Melt-Quenched Highly Dense Cu <sub>2-x</sub> Se. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1400015	6.4	40

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40	One-pot synthesis of ultra-small magnetite nanoparticles on the surface of reduced graphene oxide nanosheets as anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 4793-4798	13	50
39	Hydrostatic pressure: a very effective approach to significantly enhance critical current density in granular iron pnictide superconductors. <i>Scientific Reports</i> , <b>2015</b> , 5, 8213	4.9	32
38	Gold nanocrystals with variable index facets as highly effective cathode catalysts for lithium-oxygen batteries. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e155-e155	10.3	48
37	Uncoupled surface spin induced exchange bias in $\delta$ -MnO <sub>2</sub> nanowires. <i>Scientific Reports</i> , <b>2014</b> , 4, 6641	4.9	34
36	A dye-sensitized visible light photocatalyst-Bi <sub>2</sub> WO <sub>6</sub> . <i>Scientific Reports</i> , <b>2014</b> , 4, 7384	4.9	73
35	Mesoporous hexagonal Co <sub>3</sub> O <sub>4</sub> for high performance lithium ion batteries. <i>Scientific Reports</i> , <b>2014</b> , 4, 6519	4.9	67
34	Single crystalline Co <sub>3</sub> O <sub>4</sub> nanocrystals exposed with different crystal planes for Li-O <sub>2</sub> batteries. <i>Scientific Reports</i> , <b>2014</b> , 4, 5767	4.9	152
33	CuO single crystal with exposed {001} facets--a highly efficient material for gas sensing and Li-ion battery applications. <i>Scientific Reports</i> , <b>2014</b> , 4, 5753	4.9	94
32	One-pot aqueous synthesis of cysteine-capped CdTe/CdS core-shell nanowires. <i>Journal of Nanoparticle Research</i> , <b>2014</b> , 16, 1	2.3	2
31	Direct large-scale synthesis of 3D hierarchical mesoporous NiO microspheres as high-performance anode materials for lithium ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 3268-73	7.7	158
30	Facile synthesis of mesoporous Mn <sub>3</sub> O <sub>4</sub> nanorods as a promising anode material for high performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16755-16760	13	72
29	A colossal dielectric constant of an amorphous TiO <sub>2</sub> :(Nb, In) film with low loss fabrication at room temperature. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 6790-6795	7.1	78
28	Recent progress in thermoelectric materials. <i>Science Bulletin</i> , <b>2014</b> , 59, 2073-2091		83
27	Mesocrystal Co <sub>3</sub> O <sub>4</sub> nanoplatelets as high capacity anode materials for Li-ion batteries. <i>Nano Research</i> , <b>2014</b> , 7, 794-803	10	63
26	Bismuth Oxybromide with Reasonable Photocatalytic Reduction Activity under Visible Light. <i>ACS Catalysis</i> , <b>2014</b> , 4, 954-961	13.1	258
25	Facile and Large-Scale Fabrication of a Cactus-Inspired Continuous Fog Collector. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3235-3240	15.6	185
24	Pressure induced magneto-structural phase transitions in layered RMn <sub>2</sub> X <sub>2</sub> compounds (invited). <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 172617	2.5	9

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22	Superhydrophobic Materials: Peanut Leaf Inspired Multifunctional Surfaces (Small 2/2014). <i>Small</i> , <b>2014</b> , 10, 214-214	11	4
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14	Positive and negative exchange bias effects in the simple perovskite manganite NdMnO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2012</b> , 101, 102411	3.4	89
13	Competition between the crystal field and the exchange field in Er <sup>3+</sup> doped NdMnO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2012</b> , 101, 121913	3.4	4
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8	Microwave Synthesis of Homogeneous YAG Nanopowder Leading to a Transparent Ceramic. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 92, 1217-1223	3.8	38
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