

Min Zhu

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.

178
papers

9,649
citations

47
h-index

93
g-index

191
ext. papers

11,907
ext. citations

10.2
avg, IF

6.59
L-index

#	Paper	IF	Citations
178	A Self-Supporting Covalent Organic Framework Separator with Desolvation Effect for High Energy Density Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2022 , 7, 885-896	20.1	13
177	Phase tuning of P2/O3-type layered oxide cathode for sodium ion batteries via a simple Li/F co-doping route. <i>Chemical Engineering Journal</i> , 2022 , 431, 134273	14.7	2
176	Effective synthesis of magnesium borohydride via B-O to B-H bond conversion. <i>Chemical Engineering Journal</i> , 2022 , 432, 134322	14.7	1
175	In Situ Construction a Stable Protective Layer in Polymer Electrolyte for Ultralong Lifespan Solid-State Lithium Metal Batteries.. <i>Advanced Science</i> , 2022 , e2104277	13.6	11
174	Advances in the Development of Single-Atom Catalysts for High-Energy-Density Lithium-Sulfur Batteries.. <i>Advanced Materials</i> , 2022 , e2200102	24	13
173	N-Doped Carbon Coated SnS/rGO Composite with Superior Cyclic Stability as Anode for Lithium-Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4339-4347	3.9	0
172	Construction of SnS-Mo-graphene nanosheets composite for highly reversible and stable lithium/sodium storage. <i>Journal of Materials Science and Technology</i> , 2022 , 121, 190-198	9.1	1
171	Insight into Reversible Conversion Reactions in SnO -Based Anodes for Lithium Storage: A Review.. <i>Small</i> , 2022 , e2201110	11	1
170	A Nb-doped metal hydride electrode with overcharge resistance and wide temperature performance for aqueous rechargeable batteries. <i>Scripta Materialia</i> , 2022 , 218, 114827	5.6	0
169	Boosting Reversibility and Stability of Li Storage in SnO -Mo Multilayers: Introduction of Interfacial Oxygen Redistribution.. <i>Advanced Materials</i> , 2021 , e2106366	24	4
168	Tin-Based Anode Materials for Stable Sodium Storage: Progress and Perspective. <i>Advanced Materials</i> , 2021 , e2106895	24	9
167	Reversible formation of metastable Sn-rich solid solution in SnO ₂ -based anode for high-performance lithium storage. <i>Applied Materials Today</i> , 2021 , 25, 101242	6.6	2
166	Applications of Plasma-Assisted Systems for Advanced Electrode Material Synthesis and Modification. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13909-13919	9.5	7
165	Unraveling the Catalytic Activity of Fe-Based Compounds toward Li ₂ Sx in Li-S Chemical System from d π Bands. <i>Advanced Energy Materials</i> , 2021 , 11, 2100673	21.8	29
164	Li ₂ CO ₃ induced stable SEI formation: An efficient strategy to boost reversibility and cyclability of Li storage in SnO ₂ anodes. <i>Science China Materials</i> , 2021 , 64, 2683-2696	7.1	5
163	Breaking the Passivation: Sodium Borohydride Synthesis by Reacting Hydrated Borax with Aluminum. <i>Chemistry - A European Journal</i> , 2021 , 27, 9087-9093	4.8	0
162	Hydrogen Production via Hydrolysis and Alcoholysis of Light Metal-Based Materials: A Review. <i>Nano-Micro Letters</i> , 2021 , 13, 134	19.5	11

161	AlH ₃ as a hydrogen storage material: recent advances, prospects and challenges. <i>Rare Metals</i> , 2021 , 40, 3337-3356	5.5	13
160	Direct Detection and Visualization of the H Reaction Process in a VO Cathode for Aqueous Zinc-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7076-7084	6.4	1
159	A nanorod-like Ni-rich layered cathode with enhanced Li ⁺ diffusion pathways for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2830-2839	13	26
158	Microsized SnS/Few-Layer Graphene Composite with Interconnected Nanosized Building Blocks for Superior Volumetric Lithium and Sodium Storage. <i>Energy and Environmental Materials</i> , 2021 , 4, 229-238	13	8
157	The Electrolyte Additive Effects on Commercialized Ni-Rich LiNi _x Co _y Mn _z O ₂ (x + y + z = 1) Based Lithium-Ion Pouch Batteries at High Temperature. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2292-2299	6.1	1
156	Li ₂ S Batteries: Unraveling the Catalytic Activity of Fe-Based Compounds toward Li ₂ S _x in Li ₂ S Chemical System from d _π Bands (Adv. Energy Mater. 26/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170101	21.8	1
155	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20960-20969	16.4	14
154	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na ⁺ . <i>Angewandte Chemie</i> , 2021 , 133, 21128-21137	3.6	5
153	Synthesis of amorphous SeP ₂ /C composite by plasma assisted ball milling for high-performance anode materials of lithium and sodium-ion batteries. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 567-574	3.6	1
152	Fluorine-substituted O3-type NaNi _{0.4} Mn _{0.25} Ti _{0.3} Co _{0.05} O ₂ cathode with improved rate capability and cyclic stability for sodium-ion storage at high voltage. <i>Journal of Energy Chemistry</i> , 2021 , 60, 341-350	12	6
151	Nanostructural Perspective for Destabilization of Mg Hydride Using the Immiscible Transition Metal Mn. <i>Inorganic Chemistry</i> , 2021 , 60, 15024-15030	5.1	3
150	LiF-Induced Stable Solid Electrolyte Interphase for a Wide Temperature SnO ₂ -Based Anode Extensible to B0. <i>Advanced Energy Materials</i> , 2021 , 11, 2101855	21.8	5
149	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , 2021 , 60, 32-60	12	18
148	Constructing Li-Rich Artificial SEI Layer in Alloy-Polymer Composite Electrolyte to Achieve High Ionic Conductivity for All-Solid-State Lithium Metal Batteries. <i>Advanced Materials</i> , 2021 , 33, e2004711	24	32
147	Scalable One-Pot Synthesis of Hierarchical Bi@C Bulk with Superior Lithium-Ion Storage Performances. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51478-51487	9.5	9
146	Unveiling the Advances of Nanostructure Design for Alloy-Type Potassium-Ion Battery Anodes via In Situ TEM. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14504-14510	16.4	47
145	Unveiling the Advances of Nanostructure Design for Alloy-Type Potassium-Ion Battery Anodes via In Situ TEM. <i>Angewandte Chemie</i> , 2020 , 132, 14612-14618	3.6	26
144	Ni/Cd and Ni-MH The Transition to Charge Carrier-Based Batteries 2020 , 1-36		

143	Direct Microstructural Evidence on the Catalyzing Mechanism for De/hydrogenation of Mg by Multi-valence NbOx. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6571-6579	3.8	3
142	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH ₄ from its Hydrolytic Product. <i>Angewandte Chemie</i> , 2020 , 132, 8701-8707	3.6	13
141	Kinetically Controllable Hydrogen Generation at Low Temperatures by the Alcoholysis of CaMg-Based Materials in Tailored Solutions. <i>ChemSusChem</i> , 2020 , 13, 2709-2718	8.3	4
140	Flowerlike Ti-Doped MoO Conductive Anode Fabricated by a Novel NiTi Dealloying Method: Greatly Enhanced Reversibility of the Conversion and Intercalation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8240-8248	9.5	4
139	Regulating Lithium Nucleation and Deposition via MOF-Derived Co@C-Modified Carbon Cloth for Stable Li Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 1909159	15.6	87
138	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH from its Hydrolytic Product. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8623-8629	16.4	116
137	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Li-S Batteries. <i>Small</i> , 2020 , 16, e1906634	11	32
136	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 387, 124061	14.7	31
135	N-doped carbon encapsulated CoMoO nanorods as long-cycle life anode for sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 576, 176-185	9.3	29
134	Low temperature dehydrogenation properties of ammonia borane within carbon nanotube arrays: a synergistic effect of nanoconfinement and alane.. <i>RSC Advances</i> , 2020 , 10, 19027-19033	3.7	4
133	Engineering layer structure of MoS ₂ /polyaniline/graphene nanocomposites to achieve fast and reversible lithium storage for high energy density aqueous lithium-ion capacitors. <i>Journal of Power Sources</i> , 2020 , 450, 227680	8.9	20
132	A phosphorus and carbon composite containing nanocrystalline Sb as a stable and high-capacity anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 443-452	13	18
131	Dual-Carbon-Confined SnS Nanostructure with High Capacity and Long Cycle Life for Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , 2020 ,	13	8
130	Reaction Route Optimized LiBH ₄ for High Reversible Capacity Hydrogen Storage by Tunable Surface-Modified AlN. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11964-11973	6.1	7
129	A flexible composite solid electrolyte with a highly stable interphase for dendrite-free and durable all-solid-state lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18043-18054	13	38
128	Innenrücktitelbild: Unveiling the Advances of Nanostructure Design for Alloy-Type Potassium-Ion Battery Anodes via In Situ TEM (Angew. Chem. 34/2020). <i>Angewandte Chemie</i> , 2020 , 132, 14801-14801	3.6	
127	Efficient Synthesis of Sodium Borohydride: Balancing Reducing Agents with Intrinsic Hydrogen Source in Hydrated Borax. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13449-13458	8.3	6
126	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21586-21595	9.5	24

125	Sn-C and Se-C Co-Bonding SnSe/Few-Layered Graphene Micro-Nano Structure: Route to a Densely Compacted and Durable Anode for Lithium/Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36685-36696	9.5	36
124	Adding Metal Carbides to Suppress the Crystalline LiSi Formation: A Route toward Cycling Durable Si-Based Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38727-38738	9.5	17
123	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O3-Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7906-7913	9.5	33
122	Nano-spatially confined and interface-controlled lithiation/delithiation in an in situ formed (SnS ₂ /FLG) composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15320-15332	13	24
121	Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1902228	24	149
120	Facile Synthesis of Peapod-Like Cu Ge/Ge@C as a High-Capacity and Long-Life Anode for Li-Ion Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 11486-11493	4.8	11
119	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. <i>Electrochimica Acta</i> , 2019 , 312, 224-233	6.7	37
118	Controllable Hydrolysis Performance of MgLi Alloys and Their Hydrides. <i>ChemPhysChem</i> , 2019 , 20, 1316-1324	3.24	17
117	Realizing facile regeneration of spent NaBH ₄ with MgAl alloy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10723-10728	13	21
116	Lithium-Sulfur Batteries: Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries (Adv. Mater. 33/2019). <i>Advanced Materials</i> , 2019 , 31, 1970236	24	8
115	TiSn-NiTi Syntactic Foams with Extremely High Specific Strength and Damping Capacity Fabricated by Pressure Melt Infiltration. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28043-28051	9.5	6
114	Citraconic anhydride as an electrolyte additive to improve the high temperature performance of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /graphite pouch batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 757-766	5.7	21
113	Converting H ⁺ from coordinated water into H ₂ enables super facile synthesis of LiBH ₄ . <i>Green Chemistry</i> , 2019 , 21, 4380-4387	10	96
112	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 8986-8996	16.7	129
111	Destabilizing the Dehydrogenation Thermodynamics of Magnesium Hydride by Utilizing the Immiscibility of Mn with Mg. <i>Inorganic Chemistry</i> , 2019 , 58, 14600-14607	5.1	13
110	A novel selenium-phosphorous amorphous composite by plasma assisted ball milling for high-performance rechargeable potassium-ion battery anode. <i>Journal of Power Sources</i> , 2019 , 443, 227278	8.9	29
109	A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707573	15.6	239
108	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO ₂ nanocrystals. <i>Nano Energy</i> , 2018 , 45, 255-265	17.1	65

107	Enhanced high-voltage cyclability of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ -based pouch cells via lithium difluorophosphate introducing as electrolyte additive. <i>Journal of Alloys and Compounds</i> , 2018 , 755, 1-9	5.7	31
106	Oxygen-Incorporated and Polyaniline-Intercalated 1T/2H Hybrid MoS ₂ Nanosheets Arrayed on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8128-8136	3.8	23
105	A scalable ternary SnO ₂ /Co composite as a high initial coulombic efficiency, large capacity and long lifetime anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7206-7220	13	56
104	High-performance anode materials for Na-ion batteries. <i>Rare Metals</i> , 2018 , 37, 167-180	5.5	40
103	Direct Rehydrogenation of LiBH ₄ from H-Deficient Li ₂ B ₁₂ H ₁₂ . <i>Crystals</i> , 2018 , 8, 131	2.3	9
102	Improvement in the Electrochemical Lithium Storage Performance of MgH ₂ . <i>Inorganics</i> , 2018 , 6, 2	2.9	4
101	A Recycling Hydrogen Supply System of NaBH ₄ Based on a Facile Regeneration Process: A Review. <i>Inorganics</i> , 2018 , 6, 10	2.9	29
100	3D Hierarchical Porous Cu-Based Composite Current Collector with Enhanced Ligaments for Notably Improved Cycle Stability of Sn Anode in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22050-22058	9.5	24
99	Nanoconfined Oxidation Synthesis of N-Doped Carbon Hollow Spheres and MnO Encapsulated Sulfur Cathode for Superior Li-S Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 4573-4582	4.8	33
98	Enhanced cyclic stability of SnS microplates with conformal carbon coating derived from ethanol vapor deposition for sodium-ion batteries. <i>Applied Surface Science</i> , 2018 , 436, 912-918	6.7	18
97	Achieving High Dehydrogenation Kinetics and Reversibility of LiBH ₄ by Adding Nanoporous h-BN to Destabilize LiH. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23336-23344	3.8	7
96	Biomedical Porous Shape Memory Alloys for Hard-Tissue Replacement Materials. <i>Materials</i> , 2018 , 11,	3.5	38
95	Si-TiN alloy Li-ion battery negative electrode materials made by N ₂ gas milling. <i>MRS Communications</i> , 2018 , 8, 1352-1357	2.7	4
94	Lithium Difluorophosphate As a Promising Electrolyte Lithium Additive for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2647-2656	6.1	42
93	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. <i>Small</i> , 2018 , 14, e1800793	11	73
92	Exfoliation of MoS ₂ and h-BN nanosheets by hydrolysis of LiBH ₄ . <i>Nanotechnology</i> , 2017 , 28, 115604	3.4	22
91	3,3'-(Ethylenedioxy)dipropionitrile as an Electrolyte Additive for 4.5 V LiNiCoMnO/Graphite Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9630-9639	9.5	36
90	Stabilizing the Nanostructure of SnO Anodes by Transition Metals: A Route to Achieve High Initial Coulombic Efficiency and Stable Capacities for Lithium Storage. <i>Advanced Materials</i> , 2017 , 29, 1605006	24	246

89	New Nanoconfined Galvanic Replacement Synthesis of Hollow Sb@C Yolk-Shell Spheres Constituting a Stable Anode for High-Rate Li/Na-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 2034-2042	11.5	306
88	Hierarchical nanoflowers assembled from MoS ₂ /polyaniline sandwiched nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2017 , 243, 98-104	6.7	44
87	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2017 , 11, 5120-5129	16.7	84
86	The milled LiBH ₄ /h-BN composites exhibiting unexpected hydrogen storage kinetics and reversibility. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15790-15798	6.7	17
85	Hydrogen generation via hydrolysis of magnesium with seawater using Mo, MoO ₂ , MoO ₃ and MoS ₂ as catalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8566-8575	13	76
84	Facile synthesis of self-supported Mn ₃ O ₄ @C nanotube arrays constituting an ultrastable and high-rate anode for flexible Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8555-8565	13	35
83	Origin of Capacity Increasing in a Long-Life Ternary SnFe ₃ O ₄ @Graphite Anode for Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700113	4.6	39
82	A New Strategy to Effectively Suppress the Initial Capacity Fading of Iron Oxides by Reacting with LiBH ₄ . <i>Advanced Functional Materials</i> , 2017 , 27, 1700342	15.6	36
81	Reversible hydrogen storage in yttrium aluminum hydride. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 60423604627	4.3	27
80	Self-Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Long-Life Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017 , 23, 5198-5204	4.8	65
79	A highly stable (SnO _x -Sn) _n @few layered graphene composite anode of sodium-ion batteries synthesized by oxygen plasma assisted milling. <i>Journal of Power Sources</i> , 2017 , 350, 1-8	8.9	65
78	Recent advances and remaining challenges of nanostructured materials for hydrogen storage applications. <i>Progress in Materials Science</i> , 2017 , 88, 1-48	42.2	366
77	Highly Stable Cycling of Amorphous Li ₂ CO ₃ -Coated Fe ₂ O ₃ Nanocrystallines Prepared via a New Mechanochemical Strategy for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1605011	15.6	46
76	Metal-Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2516-2525	9.5	95
75	A new method for few-layer graphene preparation via plasma-assisted ball milling. <i>Journal of Alloys and Compounds</i> , 2017 , 728, 578-584	5.7	60
74	Synthesis and hydrolysis of NaZn(BH ₄) ₃ and its ammoniates. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17012-17020	13	29
73	Inhibiting grain coarsening and inducing oxygen vacancies: the roles of Mn in achieving a highly reversible conversion reaction and a long life SnO ₂ /Mn/graphite ternary anode. <i>Energy and Environmental Science</i> , 2017 , 10, 2017-2029	35.4	120
72	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. <i>ACS Nano</i> , 2017 , 11, 9033-9040	16.7	200

71	Electrospun Thin-Walled CuCoO@C Nanotubes as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Nano Letters</i> , 2017 , 17, 7989-7994	11.5	152
70	Ammonia Electrosynthesis with High Selectivity under Ambient Conditions via a Li Incorporation Strategy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9771-9774	16.4	397
69	Zn/MnO Battery Chemistry With H and Zn Coinsertion. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9775-9778	16.4	866
68	Improving dehydrogenation properties of Mg/Nb composite films via tuning Nb distributions. <i>Rare Metals</i> , 2017 , 36, 574-580	5.5	9
67	Hydrogen generation properties and the hydrolysis mechanism of Zr(BH ₄) ₄ /NH ₃ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16630-16635	13	13
66	A Novel Strategy to Suppress Capacity and Voltage Fading of Li- and Mn-Rich Layered Oxide Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601066	21.8	113
65	Application of dielectric barrier discharge plasma-assisted milling in energy storage materials [A review]. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 422-435	5.7	248
64	Enhancing the Regeneration Process of Consumed NaBH ₄ for Hydrogen Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700299	21.8	223
63	Realizing nano-confinement of magnesium for hydrogen storage using vapour transport deposition. <i>Rare Metals</i> , 2016 , 35, 401-407	5.5	17
62	Properties of WC/Co hardmetals with plate-like WC grains prepared by plasma-assisted milling. <i>Rare Metals</i> , 2016 , 35, 763-770	5.5	12
61	Hierarchical MoO ₂ /Mo ₂ C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19987-93	9.5	78
60	Mesoporous Mo ₂ C/N-doped carbon heteronanowires as high-rate and long-life anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10842-10849	13	119
59	Uniform Hierarchical Fe ₃ O ₄ @Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1600256	21.8	152
58	Dramatically enhanced reversibility of Li ₂ O in SnO ₂ -based electrodes: the effect of nanostructure on high initial reversible capacity. <i>Energy and Environmental Science</i> , 2016 , 9, 595-603	35.4	257
57	A novel method for the synthesis of solvent-free Mg(B ₃ H ₈) ₂ . <i>Dalton Transactions</i> , 2016 , 45, 3687-90	4.3	33
56	Sandwich-like SnS/Polypyrrole Ultrathin Nanosheets as High-Performance Anode Materials for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8502-10	9.5	115
55	Improved coulombic efficiency and cycleability of SnO ₂ @graphite composite anode with dual scale embedding structure. <i>RSC Advances</i> , 2016 , 6, 13384-13391	3.7	16
54	Silicon/Wolfram Carbide@Graphene composite: enhancing conductivity and structure stability in amorphous-silicon for high lithium storage performance. <i>Electrochimica Acta</i> , 2016 , 191, 462-472	6.7	29

53	Synthesis of N-doped hierarchical carbon spheres for CO ₂ capture and supercapacitors. <i>RSC Advances</i> , 2016 , 6, 1422-1427	3.7	31
52	A long-life nano-silicon anode for lithium ion batteries: supporting of graphene nanosheets exfoliated from expanded graphite by plasma-assisted milling. <i>Electrochimica Acta</i> , 2016 , 187, 1-10	6.7	68
51	Inhibiting Sn coarsening to enhance the reversibility of conversion reaction in lithiated SnO ₂ anodes by application of super-elastic NiTi films. <i>Acta Materialia</i> , 2016 , 109, 248-258	8.4	45
50	A spherical SnFe ₃ O ₄ @graphite composite as a long-life and high-rate-capability anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10321-10328	13	52
49	Enhanced hydrogen storage properties of a MgAg alloy with solid dissolution of indium: a comparative study. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8581-8589	13	40
48	Enhanced Hydrogen Generation Properties of MgH ₂ -Based Hydrides by Breaking the Magnesium Hydroxide Passivation Layer. <i>Energies</i> , 2015 , 8, 4237-4252	3.1	68
47	Express penetration of hydrogen on Mg(10 13) along the close-packed-planes. <i>Scientific Reports</i> , 2015 , 5, 10776	4.9	81
46	Ammonia borane modified zirconium borohydride octaammoniate with enhanced dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5299-5304	13	20
45	Fabrication of NiTi Shape Memory Alloys with Graded Porosity to Imitate Human Long-bone Structure. <i>Journal of Bionic Engineering</i> , 2015 , 12, 575-582	2.7	21
44	Effect of Pore Structure Regulation on the Properties of Porous TiNbZr Shape Memory Alloys for Biomedical Application. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 136-142	1.6	17
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