

# Min Zhu

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8754/min-zhu-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.

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	Zn/MnO Battery Chemistry With H and Zn Coinsertion. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9775-9778	16.4	866
177	Ammonia Electrosynthesis with High Selectivity under Ambient Conditions via a Li Incorporation Strategy. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9771-9774	16.4	397
176	Recent advances and remaining challenges of nanostructured materials for hydrogen storage applications. <i>Progress in Materials Science</i> , <b>2017</b> , 88, 1-48	42.2	366
175	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> , <b>2017</b> , 17, 2034-2042	11.5	306
174	Dramatically enhanced reversibility of Li <sub>2</sub> O in SnO <sub>2</sub> -based electrodes: the effect of nanostructure on high initial reversible capacity. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 595-603	35.4	257
173	Application of dielectric barrier discharge plasma-assisted milling in energy storage materials   A review. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 691, 422-435	5.7	248
172	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> , <b>2017</b> , 29, 1605006	24	246
171	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> , <b>2018</b> , 28, 1707573	15.6	239
170	Enhancing the Regeneration Process of Consumed NaBH <sub>4</sub> for Hydrogen Storage. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700299	21.8	223
169	Monodisperse magnesium hydride nanoparticles uniformly self-assembled on graphene. <i>Advanced Materials</i> , <b>2015</b> , 27, 5981-8	24	220
168	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 9033-9040	16.7	200
167	Mg <sub>3</sub> M (TM: Ti, Nb, V, Co, Mo or Ni) core-shell like nanostructures: synthesis, hydrogen storage performance and catalytic mechanism. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9645-9655	13	167
166	Remarkable enhancement in dehydrogenation of MgH <sub>2</sub> by a nano-coating of multi-valence Ti-based catalysts. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5603	13	164
165	Uniform Hierarchical Fe <sub>3</sub> O <sub>4</sub> @Polypyrrole Nanocages for Superior Lithium Ion Battery Anodes. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600256	21.8	152
164	Electrospun Thin-Walled CuCoO@C Nanotubes as Bifunctional Oxygen Electrocatalysts for Rechargeable Zn-Air Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 7989-7994	11.5	152
163	Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902228	24	149
162	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithium-Sulfur Batteries. <i>ACS Nano</i> , <b>2019</b> , 13, 8986-8996	16.7	129

161	Thermodynamic Tuning of Mg-Based Hydrogen Storage Alloys: A Review. <i>Materials</i> , <b>2013</b> , 6, 4654-4674	3.5	123
160	Inhibiting grain coarsening and inducing oxygen vacancies: the roles of Mn in achieving a highly reversible conversion reaction and a long life SnO <sub>2</sub> /Mn/graphite ternary anode. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2017-2029	35.4	120
159	Mesoporous Mo <sub>2</sub> C/N-doped carbon heteronanowires as high-rate and long-life anode materials for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10842-10849	13	119
158	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH <sub>4</sub> from its Hydrolytic Product. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 8623-8629	16.4	116
157	Sandwich-like SnS/Polypyrrole Ultrathin Nanosheets as High-Performance Anode Materials for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 8502-10	9.5	115
156	Symbiotic CeH <sub>2.73</sub> /CeO <sub>2</sub> catalyst: A novel hydrogen pump. <i>Nano Energy</i> , <b>2014</b> , 9, 80-87	17.1	115
155	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , <b>2014</b> , 5, 3519	17.4	115
154	Silicon/graphene based nanocomposite anode: large-scale production and stable high capacity for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9118-9125	13	113
153	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> , <b>2017</b> , 7, 1601066	21.8	113
152	Embedding nano-silicon in graphene nanosheets by plasma assisted milling for high capacity anode materials in lithium ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 610-618	8.9	99
151	Converting H <sup>+</sup> from coordinated water into H <sub>2</sub> enables super facile synthesis of LiBH <sub>4</sub> . <i>Green Chemistry</i> , <b>2019</b> , 21, 4380-4387	10	96
150	Metal-Organic Framework-Derived NiSb Alloy Embedded in Carbon Hollow Spheres as Superior Lithium-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2516-2525	9.5	95
149	Regulating Lithium Nucleation and Deposition via MOF-Derived Co@C-Modified Carbon Cloth for Stable Li Metal Anode. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909159	15.6	87
148	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. <i>ACS Nano</i> , <b>2017</b> , 11, 5120-5129	16.7	84
147	Sn@SnO <sub>x</sub> /C nanocomposites prepared by oxygen plasma-assisted milling as cyclic durable anodes for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 242, 114-121	8.9	84
146	Express penetration of hydrogen on Mg(10 13) along the close-packed-planes. <i>Scientific Reports</i> , <b>2015</b> , 5, 10776	4.9	81
145	Hierarchical MoO <sub>2</sub> /Mo <sub>2</sub> C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19987-93	9.5	78
144	Hydrogen generation via hydrolysis of magnesium with seawater using Mo, MoO <sub>2</sub> , MoO <sub>3</sub> and MoS <sub>2</sub> as catalysts. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8566-8575	13	76

143	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. <i>Small</i> , <b>2018</b> , 14, e1800793	11	73
142	Phase Stability, Structural Transition, and Hydrogen Absorption/Desorption Features of the Polymorphic La <sub>4</sub> MgNi <sub>19</sub> Compound. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11686-11692	3.8	69
141	Enhanced Hydrogen Generation Properties of MgH <sub>2</sub> -Based Hydrides by Breaking the Magnesium Hydroxide Passivation Layer. <i>Energies</i> , <b>2015</b> , 8, 4237-4252	3.1	68
140	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> , <b>2016</b> , 187, 1-10	6.7	68
139	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> , <b>2017</b> , 23, 5198-5204	4.8	65
138	A highly stable (SnO <sub>x</sub> -Sn)@few layered graphene composite anode of sodium-ion batteries synthesized by oxygen plasma assisted milling. <i>Journal of Power Sources</i> , <b>2017</b> , 350, 1-8	8.9	65
137	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO <sub>2</sub> nanocrystals. <i>Nano Energy</i> , <b>2018</b> , 45, 255-265	17.1	65
136	Facile synthesis of Ge@FLG composites by plasma assisted ball milling for lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11280-11285	13	64
135	A new method for few-layer graphene preparation via plasma-assisted ball milling. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 728, 578-584	5.7	60
134	A scalable ternary SnO <sub>2</sub> /TiO <sub>2</sub> composite as a high initial coulombic efficiency, large capacity and long lifetime anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7206-7220	13	56
133	A spherical Sn@Fe <sub>3</sub> O <sub>4</sub> @graphite composite as a long-life and high-rate-capability anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10321-10328	13	52
132	Novel nitrogen-rich porous carbon spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16617-16622	13	50
131	Unveiling the Advances of Nanostructure Design for Alloy-Type Potassium-Ion Battery Anodes via In Situ TEM. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14504-14510	16.4	47
130	Highly Stable Cycling of Amorphous Li <sub>2</sub> CO <sub>3</sub> -Coated Fe <sub>2</sub> O <sub>3</sub> Nanocrystallines Prepared via a New Mechanochemical Strategy for Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605011	15.6	46
129	Inhibiting Sn coarsening to enhance the reversibility of conversion reaction in lithiated SnO <sub>2</sub> anodes by application of super-elastic NiTi films. <i>Acta Materialia</i> , <b>2016</b> , 109, 248-258	8.4	45
128	Hierarchical nanoflowers assembled from MoS <sub>2</sub> /polyaniline sandwiched nanosheets for high-performance supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 243, 98-104	6.7	44
127	Deformable fibrous carbon supported ultrafine nano-SnO <sub>2</sub> as a high volumetric capacity and cyclic durable anode for Li storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15097-15107	13	44
126	Synergetic effects of hydrogenated Mg <sub>3</sub> La and TiCl <sub>3</sub> on the dehydrogenation of LiBH <sub>4</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9179		44

125	Sn buffered by shape memory effect of NiTi alloys as high-performance anodes for lithium ion batteries. <i>Acta Materialia</i> , <b>2012</b> , 60, 4695-4703	8.4	43
124	Progress on Sn-based thin-film anode materials for lithium-ion batteries. <i>Science Bulletin</i> , <b>2012</b> , 57, 4119-4130		43
123	Microstructure and electrochemical performance of thin film anodes for lithium ion batteries in immiscible AlSn system. <i>Journal of Power Sources</i> , <b>2009</b> , 188, 268-273	8.9	43
122	Lithium Difluorophosphate As a Promising Electrolyte Lithium Additive for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2647-2656	6.1	42
121	Enhanced hydrogen storage properties of a MgAg alloy with solid dissolution of indium: a comparative study. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 8581-8589	13	40
120	High-performance anode materials for Na-ion batteries. <i>Rare Metals</i> , <b>2018</b> , 37, 167-180	5.5	40
119	Towards easy reversible dehydrogenation of LiBH <sub>4</sub> by catalyzing hierarchic nanostructured CoB. <i>Nano Energy</i> , <b>2014</b> , 10, 235-244	17.1	40
118	Enhancing the performance of SnSn nanocomposite as lithium ion anode by discharge plasma assisted milling. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8022		40
117	Origin of Capacity Increasing in a Long-Life Ternary SnFe <sub>3</sub> O <sub>4</sub> @Graphite Anode for Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700113	4.6	39
116	Confined LiBH <sub>4</sub> : Enabling fast hydrogen release at ~100°C. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 18920-18926	6.7	38
115	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> , <b>2020</b> , 8, 18043-18054	13	38
114	Biomedical Porous Shape Memory Alloys for Hard-Tissue Replacement Materials. <i>Materials</i> , <b>2018</b> , 11,	3.5	38
113	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. <i>Electrochimica Acta</i> , <b>2019</b> , 312, 224-233	6.7	37
112	Fully Reversible De/hydriding of Mg Base Solid Solutions with Reduced Reaction Enthalpy and Enhanced Kinetics. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 12087-12096	3.8	37
111	Mesoporous Fe <sub>2</sub> O <sub>3</sub> flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 14178-14187	13	37
110	3,3'-(Ethylenedioxy)dipropionitrile as an Electrolyte Additive for 4.5 V LiNiCoMnO/Graphite Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9630-9639	9.5	36
109	A New Strategy to Effectively Suppress the Initial Capacity Fading of Iron Oxides by Reacting with LiBH <sub>4</sub> . <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700342	15.6	36
108	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 &amp; Interfaces</i> , <b>2019</b> , 11, 36685-36696	9.5	36

107	An amorphous wrapped nanorod LiV <sub>3</sub> O <sub>8</sub> electrode with enhanced performance for lithium ion batteries. <i>RSC Advances</i> , <b>2012</b> , 2, 7273	3.7	36
106	Facile synthesis of self-supported Mn <sub>3</sub> O <sub>4</sub> @C nanotube arrays constituting an ultrastable and high-rate anode for flexible Li-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8555-8565	13	35
105	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O <sub>3</sub> -Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 7906-7913	9.5	33
104	A novel method for the synthesis of solvent-free Mg(B <sub>3</sub> H <sub>8</sub> ) <sub>2</sub> . <i>Dalton Transactions</i> , <b>2016</b> , 45, 3687-90	4.3	33
103	Core/shell and multi-scale structures enhance the anode performance of a Sn <sub>0.1</sub> Ni composite thin film in a lithium ion battery. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4629		33
102	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> , <b>2018</b> , 24, 4573-4582	4.8	33
101	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Li-S Batteries. <i>Small</i> , <b>2020</b> , 16, e1906634	11	32
100	Thermal stability, decomposition and glass transition behavior of PANI/NiO composites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 98, 533-537	4.1	32
99	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> , <b>2021</b> , 33, e2004711	24	32
98	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124061	14.7	31
97	Enhanced high-voltage cyclability of LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> -based pouch cells via lithium difluorophosphate introducing as electrolyte additive. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 755, 1-9	5.7	31
96	Synthesis of N-doped hierarchical carbon spheres for CO <sub>2</sub> capture and supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 1422-1427	3.7	31
95	Metals (Ni, Fe)-Incorporated Titanate Nanotubes Induced Destabilization of LiBH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 9780-9786	3.8	30
94	Silicon/Wolfram Carbide@Graphene composite: enhancing conductivity and structure stability in amorphous-silicon for high lithium storage performance. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 462-472	6.7	29
93	A Recycling Hydrogen Supply System of NaBH <sub>4</sub> Based on a Facile Regeneration Process: A Review. <i>Inorganics</i> , <b>2018</b> , 6, 10	2.9	29
92	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> , <b>2019</b> , 443, 227278	8.9	29
91	Synthesis and hydrolysis of NaZn(BH <sub>4</sub> ) <sub>3</sub> and its ammoniates. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17012-17020	13	29
90	N-doped carbon encapsulated CoMoO nanorods as long-cycle life anode for sodium-ion batteries. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 576, 176-185	9.3	29

89	Unraveling the Catalytic Activity of Fe-Based Compounds toward Li <sub>2</sub> Sx in Li-B Chemical System from d-Bands. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100673	21.8	29
88	In Situ Embedding of Mg <sub>2</sub> NiH <sub>4</sub> and YH <sub>3</sub> Nanoparticles into Bimetallic Hydride NaMgH <sub>3</sub> to Inhibit Phase Segregation for Enhanced Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23635-23644	3.8	28
87	Reversible hydrogen storage in yttrium aluminum hydride. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 60423-60462	3.6	27
86	Unveiling the Advances of Nanostructure Design for Alloy-Type Potassium-Ion Battery Anodes via In Situ TEM. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14612-14618	3.6	26
85	A nanorod-like Ni-rich layered cathode with enhanced Li <sup>+</sup> diffusion pathways for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2830-2839	13	26
84	Influences of Composition on the Electrochemical Performance in Immiscible Sn-Al Thin Films as Anodes for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18953-18961	3.8	25
83	Nano-spatially confined and interface-controlled lithiation/delithiation in an in situ formed (SnS <sub>2</sub> /SnS <sub>2</sub> )/FLG composite: a route to an ultrafast and cycle-stable anode for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15320-15332	13	24
82	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 &amp; Interfaces</i> , <b>2018</b> , 10, 22050-22058	9.5	24
81	A synergistic strategy established by the combination of two H-enriched B <sub>2</sub> based hydrides towards superior dehydrogenation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10155	13	24
80	Nanosize-Controlled Reversibility for a Destabilizing Reaction in the LiBH <sub>4</sub> -LiH <sub>2</sub> +x System. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 9566-9572	3.8	24
79	Solvent-Free Method Prepared a Sandwich-like Nanofibrous Membrane-Reinforced Polymer Electrolyte for High-Performance All-Solid-State Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21586-21595	9.5	24
78	Oxygen-Incorporated and Polyaniline-Intercalated 1T/2H Hybrid MoS <sub>2</sub> Nanosheets Arrayed on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8128-8136	3.8	23
77	Exfoliation of MoS and h-BN nanosheets by hydrolysis of LiBH. <i>Nanotechnology</i> , <b>2017</b> , 28, 115604	3.4	22
76	Carbon nanomaterial-assisted morphological tuning for thermodynamic and kinetic destabilization in sodium alanates. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5238	13	22
75	Realizing facile regeneration of spent NaBH <sub>4</sub> with Mg-Al alloy. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10723-10728	13	21
74	Fabrication of NiTi Shape Memory Alloys with Graded Porosity to Imitate Human Long-bone Structure. <i>Journal of Bionic Engineering</i> , <b>2015</b> , 12, 575-582	2.7	21
73	Citraconic anhydride as an electrolyte additive to improve the high temperature performance of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> /graphite pouch batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 805, 757-766	5.7	21
72	Microsized Sn supported by NiTi alloy as a high-performance film anode for Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9539		21

71	Ammonia borane modified zirconium borohydride octaammoniate with enhanced dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5299-5304	13	20
70	Engineering layer structure of MoS <sub>2</sub> /polyaniline/graphene nanocomposites to achieve fast and reversible lithium storage for high energy density aqueous lithium-ion capacitors. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227680	8.9	20
69	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> , <b>2020</b> , 8, 443-452	13	18
68	Enhanced cyclic stability of SnS microplates with conformal carbon coating derived from ethanol vapor deposition for sodium-ion batteries. <i>Applied Surface Science</i> , <b>2018</b> , 436, 912-918	6.7	18
67	Interface engineering for composite cathodes in sulfide-based all-solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 32-60	12	18
66	The milled LiBH <sub>4</sub> /h-BN composites exhibiting unexpected hydrogen storage kinetics and reversibility. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 15790-15798	6.7	17
65	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 &amp; Interfaces</i> , <b>2019</b> , 11, 38727-38738	8.5	17
64	Controllable Hydrolysis Performance of MgLi Alloys and Their Hydrides. <i>ChemPhysChem</i> , <b>2019</b> , 20, 1316-1324	3.24	17
63	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> , <b>2015</b> , 24, 136-142	1.6	17
62	Realizing nano-confinement of magnesium for hydrogen storage using vapour transport deposition. <i>Rare Metals</i> , <b>2016</b> , 35, 401-407	5.5	17
61	Improved dehydrogenation of TiF <sub>3</sub> -doped NaAlH <sub>4</sub> using ordered mesoporous SiO <sub>2</sub> as a codopant. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 2047-2053	2.5	17
60	Improved coulombic efficiency and cycleability of SnO <sub>2</sub> /graphite composite anode with dual scale embedding structure. <i>RSC Advances</i> , <b>2016</b> , 6, 13384-13391	3.7	16
59	Facile self-assembly of light metal borohydrides with controllable nanostructures. <i>RSC Advances</i> , <b>2014</b> , 4, 983-986	3.7	16
58	Immobilization of Aluminum Borohydride Hexammoniate in a Nanoporous Polymer Stabilizer for Enhanced Chemical Hydrogen Storage. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12891-12895	3.6	15
57	Destabilization of LiBH <sub>4</sub> dehydrogenation through H <sub>2</sub> O interactions by cooperating with alkali metal hydroxides. <i>RSC Advances</i> , <b>2014</b> , 4, 3082-3089	3.7	14
56	Structure and Deuterium Desorption from Ca <sub>3</sub> Mg <sub>2</sub> Ni <sub>13</sub> Deuteride: A Neutron Diffraction Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 4626-4633	3.8	14
55	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> , <b>2021</b> , 60, 20960-20969	16.4	14
54	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH <sub>4</sub> from its Hydrolytic Product. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 8701-8707	3.6	13



53	Destabilizing the Dehydrogenation Thermodynamics of Magnesium Hydride by Utilizing the Immiscibility of Mn with Mg. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 14600-14607	5.1	13
52	Hydrogen generation properties and the hydrolysis mechanism of Zr(BH <sub>4</sub> ) <sub>4</sub> ·NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16630-16635	13	13
51	A Self-Supporting Covalent Organic Framework Separator with Desolvation Effect for High Energy Density Lithium Metal Batteries. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 885-896	20.1	13
50	AlH <sub>3</sub> as a hydrogen storage material: recent advances, prospects and challenges. <i>Rare Metals</i> , <b>2021</b> , 40, 3337-3356	5.5	13
49	Advances in the Development of Single-Atom Catalysts for High-Energy-Density Lithium-Sulfur Batteries.. <i>Advanced Materials</i> , <b>2022</b> , e2200102	24	13
48	Properties of WC/Co hardmetals with plate-like WC grains prepared by plasma-assisted milling. <i>Rare Metals</i> , <b>2016</b> , 35, 763-770	5.5	12
47	Metal-Borohydride-Modified Zr(BH <sub>4</sub> ) <sub>4</sub> ·NH <sub>3</sub> : Low-Temperature Dehydrogenation Yielding Highly Pure Hydrogen. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 14931-6	4.8	12
46	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> , <b>2019</b> , 25, 11486-11493	4.8	11
45	Hydrogen Production via Hydrolysis and Alcoholysis of Light Metal-Based Materials: A Review. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 134	19.5	11
44	In Situ Construction a Stable Protective Layer in Polymer Electrolyte for Ultralong Lifespan Solid-State Lithium Metal Batteries.. <i>Advanced Science</i> , <b>2022</b> , e2104277	13.6	11
43	Scalable One-Pot Synthesis of Hierarchical Bi@C Bulk with Superior Lithium-Ion Storage Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51478-51487	9.5	9
42	Direct Rehydrogenation of LiBH <sub>4</sub> from H-Deficient Li <sub>2</sub> B <sub>12</sub> H <sub>12</sub> . <i>Crystals</i> , <b>2018</b> , 8, 131	2.3	9
41	Improving dehydrogenation properties of Mg/Nb composite films via tuning Nb distributions. <i>Rare Metals</i> , <b>2017</b> , 36, 574-580	5.5	9
40	Tin-Based Anode Materials for Stable Sodium Storage: Progress and Perspective. <i>Advanced Materials</i> , <b>2021</b> , e2106895	24	9
39	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> , <b>2019</b> , 31, 1970236	24	8
38	Dual-Carbon-Confined SnS Nanostructure with High Capacity and Long Cycle Life for Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , <b>2020</b> ,	13	8
37	Microsized SnS/Few-Layer Graphene Composite with Interconnected Nanosized Building Blocks for Superior Volumetric Lithium and Sodium Storage. <i>Energy and Environmental Materials</i> , <b>2021</b> , 4, 229-238	13	8
36	Reaction Route Optimized LiBH <sub>4</sub> for High Reversible Capacity Hydrogen Storage by Tunable Surface-Modified AlN. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11964-11973	6.1	7

35	Applications of Plasma-Assisted Systems for Advanced Electrode Material Synthesis and Modification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13909-13919	9.5	7
34	Achieving High Dehydrogenation Kinetics and Reversibility of LiBH <sub>4</sub> by Adding Nanoporous h-BN to Destabilize LiH. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23336-23344	3.8	7
33	TiSn-NiTi Syntactic Foams with Extremely High Specific Strength and Damping Capacity Fabricated by Pressure Melt Infiltration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28043-28051	9.5	6
32	Efficient Synthesis of Sodium Borohydride: Balancing Reducing Agents with Intrinsic Hydrogen Source in Hydrated Borax. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13449-13458	8.3	6
31	Fluorine-substituted O3-type NaNi <sub>0.4</sub> Mn <sub>0.25</sub> Ti <sub>0.3</sub> Co <sub>0.05</sub> O <sub>2</sub> cathode with improved rate capability and cyclic stability for sodium-ion storage at high voltage. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 341-350	12	6
30	In vitro and in vivo evaluation of porous NiTi alloy modified by sputtering a surface TiO <sub>2</sub> film. <i>Science China Technological Sciences</i> , <b>2012</b> , 55, 437-444	3.5	5
29	Li <sub>2</sub> CO <sub>3</sub> induced stable SEI formation: An efficient strategy to boost reversibility and cyclability of Li storage in SnO <sub>2</sub> anodes. <i>Science China Materials</i> , <b>2021</b> , 64, 2683-2696	7.1	5
28	Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na <sup>+</sup> . <i>Angewandte Chemie</i> , <b>2021</b> , 133, 21128-21137	3.6	5
27	LiF-Induced Stable Solid Electrolyte Interphase for a Wide Temperature SnO <sub>2</sub> -Based Anode Extensible to 80 °C. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101855	21.8	5
26	General construction of lithiophilic 3D skeleton for dendrite-free lithium metal anode via a versatile MOF-derived route. <i>Science China Materials</i> , 1	7.1	5
25	Kinetically Controllable Hydrogen Generation at Low Temperatures by the Alcoholysis of CaMg-Based Materials in Tailored Solutions. <i>ChemSusChem</i> , <b>2020</b> , 13, 2709-2718	8.3	4
24	Flowerlike Ti-Doped MoO <sub>3</sub> Conductive Anode Fabricated by a Novel NiTi Dealloying Method: Greatly Enhanced Reversibility of the Conversion and Intercalation Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8240-8248	9.5	4
23	Improvement in the Electrochemical Lithium Storage Performance of MgH <sub>2</sub> . <i>Inorganics</i> , <b>2018</b> , 6, 2	2.9	4
22	Boosting Reversibility and Stability of Li Storage in SnO <sub>2</sub> -Mo Multilayers: Introduction of Interfacial Oxygen Redistribution.. <i>Advanced Materials</i> , <b>2021</b> , e2106366	24	4
21	Low temperature dehydrogenation properties of ammonia borane within carbon nanotube arrays: a synergistic effect of nanoconfinement and alane.. <i>RSC Advances</i> , <b>2020</b> , 10, 19027-19033	3.7	4
20	Si-TiN alloy Li-ion battery negative electrode materials made by N <sub>2</sub> gas milling. <i>MRS Communications</i> , <b>2018</b> , 8, 1352-1357	2.7	4
19	Introducing NO <sub>3</sub> <sup>-</sup> into Carbonate-Based Electrolytes via Covalent Organic Framework to Incubate Stable Interface for Li-Metal Batteries. <i>Advanced Functional Materials</i> , 2109377	15.6	4
18	Direct Microstructural Evidence on the Catalyzing Mechanism for De/hydrogenation of Mg by Multi-valence NbO <sub>x</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 6571-6579	3.8	3

17	Achieving an H-induced transparent state in 200 nm thick MgTi film by amorphization. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 014304	2.5	3
16	Nanostructural Perspective for Destabilization of Mg Hydride Using the Immiscible Transition Metal Mn. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15024-15030	5.1	3
15	Reversible formation of metastable Sn-rich solid solution in SnO <sub>2</sub> -based anode for high-performance lithium storage. <i>Applied Materials Today</i> , <b>2021</b> , 25, 101242	6.6	2
14	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> , <b>2022</b> , 431, 134273	14.7	2
13	Effective synthesis of magnesium borohydride via B-O to B-H bond conversion. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134322	14.7	1
12	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> , <b>2021</b> , 12, 7076-7084	6.4	1
11	The Electrolyte Additive Effects on Commercialized Ni-Rich LiNi <sub>x</sub> Co <sub>y</sub> Mn <sub>z</sub> O <sub>2</sub> (x + y + z = 1) Based Lithium-Ion Pouch Batteries at High Temperature. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2292-2299	6.1	1
10	Li <sup>+</sup> Batteries: Unraveling the Catalytic Activity of Fe-Based Compounds toward Li <sub>2</sub> S <sub>x</sub> in Li <sup>+</sup> Chemical System from d <sup>π</sup> Bands (Adv. Energy Mater. 26/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170101	21.8	1
9	Synthesis of amorphous SeP <sub>2</sub> /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> , <b>2021</b> , 31, 567-574	3.6	1
8	Construction of SnS-Mo-graphene nanosheets composite for highly reversible and stable lithium/sodium storage. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 121, 190-198	9.1	1
7	Insight into Reversible Conversion Reactions in SnO <sub>2</sub> -Based Anodes for Lithium Storage: A Review.. <i>Small</i> , <b>2022</b> , e2201110	11	1
6	Breaking the Passivation: Sodium Borohydride Synthesis by Reacting Hydrated Borax with Aluminum. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 9087-9093	4.8	0
5	N-Doped Carbon Coated SnS/rGO Composite with Superior Cyclic Stability as Anode for Lithium-Ion Batteries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 4339-4347	3.9	0
4	A Nb-doped metal hydride electrode with overcharge resistance and wide temperature performance for aqueous rechargeable batteries. <i>Scripta Materialia</i> , <b>2022</b> , 218, 114827	5.6	0
3	Ni/Cd and Ni-MH The Transition to Charge Carrier-Based Batteries <b>2020</b> , 1-36		
2	Structure Analysis of FeSi <sub>2</sub> Embedded in Si by Transmission Electron Microscopy;. <i>Materia Japan</i> , <b>2001</b> , 40, 1013-1013	0.1	
1	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> , <b>2020</b> , 132, 14801-14801	3.6	