

Hongge Pan

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166
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ext. citations

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#	Paper	IF	Citations
158	Advanced hydrogen storage alloys for Ni/MH rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4743-4755		386
157	Prussian Blue Analogs for Rechargeable Batteries. <i>Science</i> , 2018 , 3, 110-133	6.1	208
156	Lithium alloys and metal oxides as high-capacity anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 246-256	5.7	199
155	High performance amorphous-Si@SiO _x /C composite anode materials for Li-ion batteries derived from ball-milling and in situ carbonization. <i>Journal of Power Sources</i> , 2014 , 256, 190-199	8.9	174
154	Superior catalytic activity derived from a two-dimensional Ti ₃ C ₂ precursor towards the hydrogen storage reaction of magnesium hydride. <i>Chemical Communications</i> , 2016 , 52, 705-8	5.8	160
153	A Study of the Structural and Electrochemical Properties of La _{0.7} Mg _{0.3} (Ni _{0.85} Co _{0.15}) _x (x=2.5-5.0) Hydrogen Storage Alloys. <i>Journal of the Electrochemical Society</i> , 2003 , 150, A565	3.9	152
152	An investigation on the structural and electrochemical properties of La _{0.7} Mg _{0.3} (Ni _{0.85} Co _{0.15}) _x (x=3.15-8.0) hydrogen storage electrode alloys. <i>Journal of Alloys and Compounds</i> , 2003 , 351, 228-234	5.7	135
151	Porous anatase TiO ₂ constructed from a metal-organic framework for advanced lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12571	13	128
150	A facile synthesis of Fe ₃ O ₄ /C composite with high cycle stability as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013 , 239, 466-474	8.9	127
149	Low-Coordinate Iridium Oxide Confined on Graphitic Carbon Nitride for Highly Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12540-12544	16.4	122
148	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , 2014 , 5, 3519	17.4	115
147	Enhanced hydrogen storage properties of MgH ₂ catalyzed with carbon-supported nanocrystalline TiO ₂ . <i>Journal of Power Sources</i> , 2018 , 398, 183-192	8.9	113
146	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
145	Cycling durability and degradation behavior of LaMgNiCo-type metal hydride electrodes. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 291-299	5.7	92
144	Li- and Mn-rich layered oxide cathode materials for lithium-ion batteries: a review from fundamentals to research progress and applications. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 748-803	4.6	87
143	Highly dispersed NiS nanoparticles in porous carbon matrices by a template metal-organic framework method for lithium-ion cathode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7912	13	80
142	Vanadium oxide nanoparticles supported on cubic carbon nanoboxes as highly active catalyst precursors for hydrogen storage in MgH ₂ . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16177-16185	13	71

141	A novel strategy to significantly enhance the initial voltage and suppress voltage fading of a Li- and Mn-rich layered oxide cathode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3610-3624	13	68
140	Valleytronics in thermoelectric materials. <i>Npj Quantum Materials</i> , 2018 , 3,	5	67
139	A novel catalyst precursor K ₂ TiF ₆ with remarkable synergetic effects of K, Ti and F together on reversible hydrogen storage of NaAlH ₄ . <i>Chemical Communications</i> , 2011 , 47, 1740-2	5.8	67
138	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. <i>Advanced Materials</i> , 2018 , 30, e1800881	24	66
137	Non-carbon-supported single-atom site catalysts for electrocatalysis. <i>Energy and Environmental Science</i> , 2021 , 14, 2809-2858	35.4	66
136	Improved Hydrogen Storage Properties of LiBH ₄ Destabilized by in Situ Formation of MgH ₂ and LaH ₃ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1588-1595	3.8	65
135	In situ formed ultrafine NbTi nanocrystals from a NbTiC solid-solution MXene for hydrogen storage in MgH ₂ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14244-14252	13	63
134	Amylose-Derived Macrohollow Core and Microporous Shell Carbon Spheres as Sulfur Host for Superior Lithium-Sulfur Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10717-10729	9.5	62
133	Chemical vapor deposition prepared bi-morphological carbon-coated Fe ₃ O ₄ composites as anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 282, 257-264	8.9	61
132	Realizing 6.7 wt% reversible storage of hydrogen at ambient temperature with non-confined ultrafine magnesium hydrides. <i>Energy and Environmental Science</i> , 2021 , 14, 2302-2313	35.4	60
131	Improved hydrogen storage kinetics of the Li-Mg-N-H system by addition of Mg(BH ₄) ₂ . <i>Dalton Transactions</i> , 2013 , 42, 3802-11	4.3	58
130	Remarkably improved hydrogen storage properties of NaAlH ₄ doped with 2D titanium carbide. <i>Journal of Power Sources</i> , 2016 , 327, 519-525	8.9	57
129	Mechanisms for the enhanced hydrogen desorption performance of the TiF ₄ -catalyzed Na ₂ LiAlH ₆ used for hydrogen storage. <i>Energy and Environmental Science</i> , 2010 , 3, 645	35.4	52
128	Monoclinic Phase Na ₃ Fe ₂ (PO ₄) ₃ : Synthesis, Structure, and Electrochemical Performance as Cathode Material in Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 1306-1314	8.3	51
127	Hexagonal Boron Nitride as a Multifunctional Support for Engineering Efficient Electrocatalysts toward the Oxygen Reduction Reaction. <i>Nano Letters</i> , 2020 , 20, 6807-6814	11.5	50
126	Tailoring Thermodynamics and Kinetics for Hydrogen Storage in Complex Hydrides towards Applications. <i>Chemical Record</i> , 2016 , 16, 189-204	6.6	49
125	Interface Engineering of Air Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002762	21.8	47
124	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

123	Development of Catalyst-Enhanced Sodium Alanate as an Advanced Hydrogen-Storage Material for Mobile Applications. <i>Energy Technology</i> , 2018 , 6, 487-500	3.5	44
122	Understanding the role of K in the significantly improved hydrogen storage properties of a KOH-doped LiMgNH system. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5031	13	44
121	Chemical Preinsertion of Lithium: An Approach to Improve the Intrinsic Capacity Retention of Bulk Si Anodes for Li-ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3555-8	6.4	44
120	A hybrid Si@FeSi _y /SiO _x anode structure for high performance lithium-ion batteries via ammonia-assisted one-pot synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10767-10776	13	43
119	A novel complex oxide TiVO _{3.5} as a highly active catalytic precursor for improving the hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23327-23335	6.7	43
118	Remarkably improved hydrogen storage properties of nanocrystalline TiO ₂ -modified NaAlH ₄ and evolution of Ti-containing species during dehydrogenation/hydrogenation. <i>Nano Research</i> , 2015 , 8, 533-545	10.5	40
117	Gradient substitution: an intrinsic strategy towards high performance sodium storage in Prussian blue-based cathodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8947-8954	13	39
116	Achieving ambient temperature hydrogen storage in ultrafine nanocrystalline TiO ₂ @C-doped NaAlH ₄ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1087-1095	13	39
115	Mesoporous Fe ₂ O ₃ flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14178-14187	13	37
114	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
113	Synthesis, Structure Transformation, and Electrochemical Properties of Li ₂ MgSi as a Novel Anode for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 3944-3952	15.6	36
112	In situ formation of lithium fast-ion conductors and improved hydrogen desorption properties of the LiNH ₂ MgH ₂ system with the addition of lithium halides. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3155	13	36
111	Green synthesis of graphite from CO without graphitization process of amorphous carbon. <i>Nature Communications</i> , 2021 , 12, 119	17.4	36
110	Superior long-term cyclability of a nanocrystalline NiO anode enabled by a mechanochemical reaction-induced amorphous protective layer for Li-ion batteries. <i>Journal of Power Sources</i> , 2018 , 29, 134-142	8.9	34
109	Improved hydrogen storage performance of Ca(BH ₄) ₂ : a synergetic effect of porous morphology and in situ formed TiO ₂ . <i>Energy and Environmental Science</i> , 2013 , 6, 847	35.4	34
108	In Situ Encapsulation of the Nanoscale ErO Phase To Drastically Suppress Voltage Fading and Capacity Degradation of a Li- and Mn-Rich Layered Oxide Cathode for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33863-33875	9.5	34
107	Ca(BH ₄) ₂ LiBH ₄ MgH ₂ : a novel ternary hydrogen storage system with superior long-term cycling performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12285	13	33
106	Graphene-induced growth of N-doped niobium pentaoxide nanorods with high catalytic activity for hydrogen storage in MgH ₂ . <i>Chemical Engineering Journal</i> , 2021 , 406, 126831	14.7	33

105	Bi-structural fibers of carbon nanotube coated with nitrogen/oxygen dual-doped porous carbon layer as superior sulfur host for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1205-1215	5.7	32
104	A novel solid-solution MXene (Ti _{0.5} V _{0.5}) ₃ C ₂ with high catalytic activity for hydrogen storage in MgH ₂ . <i>Materialia</i> , 2018 , 1, 114-120	3.2	32
103	Hydrogen storage properties and mechanisms of the Mg(BH ₄) ₂ /NaAlH ₄ system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17137-17145	6.7	32
102	Dispersion-strengthened microparticle silicon composite with high anti-pulverization capability for Li-ion batteries. <i>Energy Storage Materials</i> , 2018 , 14, 279-288	19.4	31
101	A mechanochemical synthesis of submicron-sized Li ₂ S and a mesoporous Li ₂ S/C hybrid for high performance lithium/sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6471-6482	13	30
100	Novel MAX-phase Ti ₃ AlC ₂ catalyst for improving the reversible hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 4244-4251	6.7	30
99	Facile Synthesis and Superior Catalytic Activity of Nano-TiN@N-C for Hydrogen Storage in NaAlH ₄ . <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15767-15777	9.5	29
98	Effects of triphenyl phosphate on the hydrogen storage performance of the Mg(NH ₂) ₂ /LiH system. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2141		29
97	An ammonia-stabilized mixed-cation borohydride: synthesis, structure and thermal decomposition behavior. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 135-43	3.6	28
96	Conversion-Alloying Anode Materials for Sodium Ion Batteries. <i>Small</i> , 2021 , 17, e2101137	11	27
95	Tuning Li ₂ MO ₃ phase abundance and suppressing migration of transition metal ions to improve the overall performance of Li- and Mn-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2018 , 380, 1-11	8.9	25
94	A Novel Multielement, Multiphase, and B-Containing SiO _x Composite as a Stable Anode Material for Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801631	4.6	25
93	Triggering highly stable catalytic activity of metallic titanium for hydrogen storage in NaAlH ₄ by preparing ultrafine nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4651-4659	13	24
92	Hydrogen storage properties and mechanisms of Mg(BH ₄) ₂ /2NH ₃ /MgH ₂ combination systems. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 674-680	5.7	24
91	Highly active multivalent multielement catalysts derived from hierarchical porous TiNb ₂ O ₇ nanospheres for the reversible hydrogen storage of MgH ₂ . <i>Nano Research</i> , 2021 , 14, 148-156	10	24
90	Si/Ti ₃ SiC ₂ composite anode with enhanced elastic modulus and high electronic conductivity for lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 431, 55-62	8.9	23
89	High-temperature failure behaviour and mechanism of K-based additives in Li/Mg/Ni hydrogen storage systems. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7345-7353	13	23
88	Co/CoP Heterojunction on Hierarchically Ordered Porous Carbon as a Highly Efficient Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Advanced Energy Materials</i> , 2021 , 11, 2102134	21.8	23

87	Reaction-Ball-Milling-Driven Surface Coating Strategy to Suppress Pulverization of Microparticle Si Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20591-20598	9.5	23
86	Significantly improved kinetics, reversibility and cycling stability for hydrogen storage in NaAlH ₄ with the Ti-incorporated metal organic framework MIL-125(Ti). <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1847-1854	13	22
85	Incorporation of Ammonia Borane Groups in the Lithium Borohydride Structure Enables Ultrafast Lithium Ion Conductivity at Room Temperature for Solid-State Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 671-678	9.6	22
84	Manipulating the Coordination Chemistry of Ru ^{II} N(O) ⁻ C Moieties for Fast Alkaline Hydrogen Evolution Kinetics. <i>Advanced Functional Materials</i> , 2021 , 31, 2100698	15.6	22
83	Linking particle size to improved electrochemical performance of SiO anodes for Li-ion batteries. <i>RSC Advances</i> , 2017 , 7, 2273-2280	3.7	21
82	LiSi-alloy-assisted improvement in the intrinsic cyclability of Mg ₂ Si as an anode material for Li-ion batteries. <i>Acta Materialia</i> , 2015 , 98, 128-134	8.4	21
81	Fluorine-substituted Mg(BH ₄) ₂ ·NH ₃ with improved dehydrogenation properties for hydrogen storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 570-578	13	20
80	LiBH ₄ Nanoconfined in Porous Hollow Carbon Nanospheres with High Loading, Low Dehydrogenation Temperature, Superior Kinetics, and Favorable Reversibility. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3928-3938	6.1	20
79	Insight into the synergistic effect mechanism between the Li ₂ MO ₃ phase and the LiMO ₂ phase (M = Ni, Co, and Mn) in Li- and Mn-rich layered oxide cathode materials. <i>Electrochimica Acta</i> , 2018 , 266, 66-77	6.7	20
78	Role of Co ₃ O ₄ in improving the hydrogen storage properties of a LiBH ₄ ·LiNH ₂ composite. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11155	13	20
77	Mg ₂ Si anode for Li-ion batteries: Linking structural change to fast capacity fading. <i>Applied Physics Letters</i> , 2014 , 105, 213901	3.4	20
76	Improved lithium storage properties of Mg ₂ Si anode material synthesized by hydrogen-driven chemical reaction. <i>Electrochemistry Communications</i> , 2012 , 25, 15-18	5.1	20
75	Lattice-Confined Ir Clusters on Pd Nanosheets with Charge Redistribution for the Hydrogen Oxidation Reaction under Alkaline Conditions. <i>Advanced Materials</i> , 2021 , 33, e2105400	24	20
74	Superior Kinetic and Cyclic Performance of a 2D Titanium Carbide Incorporated 2LiH + MgB ₂ Composite toward Highly Reversible Hydrogen Storage. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4853-4864	6.1	19
73	Ultrafine Nanocrystalline CeO ₂ @C-Containing NaAlH ₄ with Fast Kinetics and Good Reversibility for Hydrogen Storage. <i>ChemSusChem</i> , 2015 , 8, 4180-8	8.3	19
72	Towards the endothermic dehydrogenation of nanoconfined magnesium borohydride ammoniate. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11057-11065	13	19
71	Non-Platinum Group Metal Electrocatalysts toward Efficient Hydrogen Oxidation Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2010633	15.6	19
70	Higher Than 90% Initial Coulombic Efficiency with Staghorn-Coral-Like 3D Porous LiFeO as Anode Materials for Li-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908285	24	19

69	Enabling Full Conversion Reaction with High Reversibility to Approach Theoretical Capacity for Sodium Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1906680	15.6	18
68	Na ₂ Fe(SO ₄) ₂ : an anhydrous 3.6 V, low-cost and good-safety cathode for a rechargeable sodium-ion battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13197-13204	13	17
67	A Unique Double-Layered Carbon Nanobowl-Confined Lithium Borohydride for Highly Reversible Hydrogen Storage. <i>Small</i> , 2020 , 16, e2001963	11	17
66	TiO ₂ decorated porous carbonaceous network structures offer confinement, catalysis and thermal conductivity for effective hydrogen storage of LiBH ₄ . <i>Chemical Engineering Journal</i> , 2021 , 407, 127156	14.7	16
65	Single-Atom Electrocatalysts for Multi-Electron Reduction of CO. <i>Small</i> , 2021 , 17, e2101443	11	16
64	Reversible hydrogen storage behavior of LiBH ₄ /Mg(OH) ₂ composites. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7868-7875	6.7	15
63	Implanting Single Zn Atoms Coupled with Metallic Co Nanoparticles into Porous Carbon Nanosheets Grafted with Carbon Nanotubes for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 200424	15.6	15
62	Atomic-Level Modulation of the Interface Chemistry of Platinum-Nickel Oxide toward Enhanced Hydrogen Electrocatalysis Kinetics. <i>Nano Letters</i> , 2021 , 21, 4845-4852	11.5	15
61	An ultrasound-assisted wet-chemistry approach towards uniform Mg(BH ₄) ₂ /LiNH ₃ nanoparticles with improved dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8366-8373	13	15
60	Preparation and Catalytic Activity of a Novel Nanocrystalline ZrO ₂ @C Composite for Hydrogen Storage in NaAlH ₄ . <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3541-3549	4.5	14
59	An eggshell-structured N-doped silicon composite anode with high anti-pulverization and favorable electronic conductivity. <i>Journal of Power Sources</i> , 2019 , 443, 227265	8.9	14
58	A high-strength SiCw/SiC/Bi composite derived from pyrolyzed rice husks by liquid silicon infiltration. <i>Journal of Materials Science</i> , 2012 , 47, 4921-4927	4.3	13
57	Porous Carbon Architecture Assembled by Cross-Linked Carbon Leaves with Implanted Atomic Cobalt for High-Performance Li-S Batteries. <i>Nano-Micro Letters</i> , 2021 , 13, 151	19.5	13
56	A facile method for determining a suitable voltage window for an amorphous Li ₁₂ Si ₇ anode. <i>Electrochimica Acta</i> , 2014 , 129, 373-378	6.7	12
55	A Novel Perovskite Electron-Ion Conductive Coating to Simultaneously Enhance Cycling Stability and Rate Capability of Li Ni Co Mn O Cathode Material for Lithium-Ion Batteries. <i>Small</i> , 2021 , 17, e2008132	11	12
54	Multifunctional bayberry-like composites consisting of CoFe encapsulated by carbon nanotubes for overall water splitting and zinc-air batteries. <i>Journal of Materials Chemistry A</i> ,	13	12
53	Nanosheet-like Lithium Borohydride Hydrate with 10 wt % Hydrogen Release at 70 °C as a Chemical Hydrogen Storage Candidate. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1872-1877	6.4	11
52	Superior catalytic activity of in situ reduced metallic Co for hydrogen storage in a Co(OH) ₂ -containing LiBH ₄ /LiNH ₂ composite. <i>Materials Research Bulletin</i> , 2018 , 97, 544-552	5.1	11

51	Low-Coordinate Iridium Oxide Confined on Graphitic Carbon Nitride for Highly Efficient Oxygen Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 12670-12674	3.6	11
50	In Situ Introduction of LiBO and NbH Leads to Superior Cyclic Stability and Kinetics of a LiBH-Based Hydrogen Storage System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 893-903	9.5	11
49	Amorphous Dual-Layer Coating: Enabling High Li-Ion Conductivity of Non-Sintered Garnet-Type Solid Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2009692	15.6	11
48	Intercalation Pseudocapacitance Boosting Ultrafast Sodium Storage in Prussian Blue Analogs. <i>ChemSusChem</i> , 2019 , 12, 2415-2420	8.3	10
47	Recent Development of Lithium Borohydride-Based Materials for Hydrogen Storage. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100073	1.6	10
46	Enhanced Hydrogen Storage Performance of MgH ₂ by the Catalysis of a Novel Intersected Y ₂ O ₃ /NiO Hybrid. <i>Processes</i> , 2021 , 9, 892	2.9	10
45	Synthesis process and catalytic activity of Nb ₂ O ₅ hollow spheres for reversible hydrogen storage of MgH ₂ . <i>International Journal of Energy Research</i> , 2021 , 45, 3129-3141	4.5	10
44	New insights into the effects of NaCl and LiCl on the hydrogen storage behaviours of a 6LiBH ₄ ·Mg(AlH ₄) ₂ composite. <i>RSC Advances</i> , 2015 , 5, 12144-12151	3.7	9
43	Room Temperature Conversion of Carbon Dioxide into Fuel Gases by Mechanochemically Reacting with Metal Hydrides. <i>ChemistrySelect</i> , 2017 , 2, 5244-5247	1.8	9
42	Mechanistic insights into the remarkable catalytic activity of nanosized Co@C composites for hydrogen desorption from the LiBH ₄ /LiNH ₂ system. <i>Catalysis Science and Technology</i> , 2017 , 7, 1838-1847	5.5	8
41	Improved hydrogen storage properties of combined Ca(BH ₄) ₂ and LiBH ₄ system motivated by addition of LaMg ₃ assisted with ball milling in H ₂ . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12325-12335	6.7	8
40	A Unique Structural Highly Compacted Binder-Free Silicon-Based Anode with High Electronic Conductivity for High-Performance Lithium-Ion Batteries. <i>Small Structures</i> , 2100174	8.7	8
39	Structural Engineering in Graphite-Based Metal-Ion Batteries. <i>Advanced Functional Materials</i> , 2107277	15.6	8
38	On the Durability of Iridium-Based Electrocatalysts toward the Oxygen Evolution Reaction under Acid Environment. <i>Advanced Functional Materials</i> , 2108465	15.6	8
37	2D Metal-Free Nanomaterials Beyond Graphene and Its Analogues toward Electrocatalysis Applications. <i>Advanced Energy Materials</i> , 2021 , 11, 2101202	21.8	8
36	A Novel Tin-Bonded Silicon Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45578-45588	9.5	8
35	Remarkably Improved Cycling Stability of Boron-Strengthened Multicomponent Layer Protected Micron-Si Composite Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19167-19175	8.3	7
34	SYNTHESIS AND CHARACTERIZATION OF LiFePO ₄ /C PREPARED VIA A SOL-GEL METHOD. <i>Surface Review and Letters</i> , 2008 , 15, 133-138	1.1	7

33	Reversible Magnesium Metal Anode Enabled by Cooperative Solvation/Surface Engineering in Carbonate Electrolytes. <i>Nano-Micro Letters</i> , 2021 , 13, 195	19.5	7
32	Amorphous-Carbon-Supported Ultrasmall TiB Nanoparticles With High Catalytic Activity for Reversible Hydrogen Storage in NaAlH. <i>Frontiers in Chemistry</i> , 2020 , 8, 419	5	6
31	A Redox Couple Strategy Enables Long-Cycling Li- and Mn-Rich Layered Oxide Cathodes by Suppressing Oxygen Release.. <i>Advanced Materials</i> , 2022 , e2108543	24	6
30	Homogeneous Na Deposition Enabling High-Energy Na-Metal Batteries. <i>Advanced Functional Materials</i> , 2110280	15.6	6
29	High-loading, ultrafine Ni nanoparticles dispersed on porous hollow carbon nanospheres for fast (de)hydrogenation kinetics of MgH ₂ . <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	6
28	A nanoconfined-LiBH ₄ system using a unique multifunctional porous scaffold of carbon wrapped ultrafine Fe ₃ O ₄ skeleton for reversible hydrogen storage with high capacity. <i>Chemical Engineering Journal</i> , 2022 , 428, 131056	14.7	6
27	Energetic Aqueous Batteries. <i>Advanced Energy Materials</i> , 2201074	21.8	6
26	Improved overall hydrogen storage properties of a CsH and KH co-doped Mg(NH ₂) ₂ /2LiH system by forming mixed amides of LiK and CsMg. <i>RSC Advances</i> , 2017 , 7, 30357-30364	3.7	5
25	Composition-Dependent Reaction Pathways and Hydrogen Storage Properties of LiBH ₄ /Mg(AlH) ₂ Composites. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2452-9	4.5	5
24	Hydrogen Storage Properties of the Mg(NH ₃) ₆ Cl ₂ -LiH Combined System. <i>Materials Transactions</i> , 2011 , 52, 627-634	1.3	5
23	Hybrid Design of Bulk-Na Metal Anode to Minimize Cycle-Induced Interface Deterioration of Solid Na Metal Battery. <i>Advanced Energy Materials</i> , 2022 , 12, 2102579	21.8	5
22	Zero-Strain Structure for Efficient Potassium Storage Nitrogen-Enriched Carbon Dual-Confinement CoP Composite. <i>Advanced Energy Materials</i> , 2103341	21.8	5
21	Solid-State Sintering Strategy for Simultaneous Nanosizing and Surface Coating of Iron Oxides as High-Capacity Anodes for Long-Life Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6330-6337	6.1	5
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