

Yong-Feng Liu

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.

232
papers

8,391
citations

48
h-index

76
g-index

247
ext. papers

9,473
ext. citations

8.2
avg, IF

6.21
L-index

#	Paper	IF	Citations
232	Catalyzed LiBH ₄ Hydrogen Storage System with In Situ Introduced Li ₃ BO ₃ and V for Enhanced Dehydrogenation and Hydrogenation Kinetics as Well as High Cycling Stability. <i>ACS Applied Energy Materials</i> , 2022 , 5, 1226-1234	6.1	1
231	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
230	Hierarchical conformal coating enables highly stable microparticle Si anodes for advanced Li-ion batteries. <i>Applied Materials Today</i> , 2022 , 26, 101403	6.6	2
229	In-situ introduction of highly active TiO for enhancing hydrogen storage performance of LiBH ₄ . <i>Chemical Engineering Journal</i> , 2022 , 433, 134485	14.7	2
228	Controllable synthesis of 2D TiH ₂ nanoflakes with superior catalytic activity for low-temperature hydrogen cycling of NaAlH ₄ . <i>Chemical Engineering Journal</i> , 2022 , 427, 131546	14.7	3
227	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
226	Single-pot solvothermal strategy toward support-free nanostructured LiBH ₄ featuring 12wt% reversible hydrogen storage at 400°C. <i>Chemical Engineering Journal</i> , 2022 , 428, 132566	14.7	2
225	A Unique Nanoflake-Shape Bimetallic Ti-Nb Oxide of Superior Catalytic Effect for Hydrogen Storage of MgH ₂ .. <i>Small</i> , 2022 , e2107013	11	4
224	Ultrafast hydrogenation of magnesium enabled by tetragonal ZrO ₂ hierarchical nanoparticles. <i>Materials Today Nano</i> , 2022 , 100200	9.7	3
223	Titanium Hydride Nanoplates Enable 5 wt% of Reversible Hydrogen Storage by Sodium Alanate below 80°C.. <i>Research</i> , 2021 , 2021, 9819176	7.8	1
222	Enabling a Stable Room-Temperature Sodium-Sulfur Battery Cathode by Building Heterostructures in Multichannel Carbon Fibers. <i>ACS Nano</i> , 2021 , 15, 5639-5648	16.7	26
221	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	11.2	12
220	Solid State Electrolytes: Amorphous Dual-Layer Coating: Enabling High Li-Ion Conductivity of Non-Sintered Garnet-Type Solid Electrolyte (Adv. Funct. Mater. 15/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170100	15.6	4
219	Nano-synergy enables highly reversible storage of 9.2wt% hydrogen at mild conditions with lithium borohydride. <i>Nano Energy</i> , 2021 , 83, 105839	17.1	14
218	Recent Development of Lithium Borohydride-Based Materials for Hydrogen Storage. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100073	1.6	10
217	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
216	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

215	Organosilicon-Based Functional Electrolytes for High-Performance Lithium Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101057	21.8	7
214	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
213	A novel surface modification strategy for Li-rich Mn-based layered oxide cathodes of high-capacity and high-cyclic stability by an additive of LiBH ₄ to the electrolyte. <i>Functional Materials Letters</i> , 2021 , 14, 2140003	1.2	0
212	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
211	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
210	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
209	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
208	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
207	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
206	A Novel Tin-Bonded Silicon Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45578-45588	9.5	8
205	Recently developed strategies to restrain dendrite growth of Li metal anodes for rechargeable batteries. <i>Rare Metals</i> , 2020 , 39, 616-635	5.5	54
204	Amorphous-Carbon-Supported Ultrasmall TiB Nanoparticles With High Catalytic Activity for Reversible Hydrogen Storage in NaAlH ₄ . <i>Frontiers in Chemistry</i> , 2020 , 8, 419	5	6
203	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
202	A Unique Double-Layered Carbon Nanobowl-Confined Lithium Borohydride for Highly Reversible Hydrogen Storage. <i>Small</i> , 2020 , 16, e2001963	11	17
201	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
200	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
199	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
198	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

197	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
196	Nitrogen-stimulated superior catalytic activity of niobium oxide for fast full hydrogenation of magnesium at ambient temperature. <i>Energy Storage Materials</i> , 2019 , 23, 79-87	19.4	33
195	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
194	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
193	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
192	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
191	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
190	Nanoscaled Lithium Powders with Protection of Ionic Liquid for Highly Stable Rechargeable Lithium Metal Batteries. <i>Advanced Science</i> , 2019 , 6, 1901776	13.6	19
189	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
188	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
187	Synthesis of a ternary amide Li K (NH ₂) and a novel Li ₃ K(NH ₂) ₄ ·MgH ₂ combination system for hydrogen storage. <i>Journal of Energy Chemistry</i> , 2019 , 35, 37-43	12	11
186	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
185	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
184	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
183	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
182	Synthesis and thermal decomposition properties of a novel dual-cation/anion complex hydride Li ₂ Mg(BH ₄) ₂ (NH ₂) ₂ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 13981-13989	6.7	4
181	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
180	Superior catalytic activity of in situ reduced metallic Co for hydrogen storage in a Co(OH) ₂ -containing LiBH ₄ /2LiNH ₂ composite. <i>Materials Research Bulletin</i> , 2018 , 97, 544-552	5.1	11

179	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
178	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 , 397, 134-142	8.9	34
177	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
176	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
175	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
174	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
173	In situ formation of Al ₃ Ti, MgF ₂ and Al and their superior synergetic effects on reversible hydrogen storage of MgH ₂ . <i>Catalysis Today</i> , 2018 , 318, 107-112	5.3	20
172	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
171	Electrodeposition: Electrocarving during Electrodeposition Growth (Adv. Mater. 51/2018). <i>Advanced Materials</i> , 2018 , 30, 1870395	24	6
170	Electrocarving during Electrodeposition Growth. <i>Advanced Materials</i> , 2018 , 30, e1805686	24	16
169	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
168	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
167	Preparation and catalytic effect of porous Co ₃ O ₄ on the hydrogen storage properties of a Li-B-N-H system. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 132-138	3.6	11
166	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
165	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
164	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
163	Oxygen Reduction Reaction: Tuning Surface Structure and Strain in PdPt Core-Shell Nanocrystals for Enhanced Electrocatalytic Oxygen Reduction (Small 7/2017). <i>Small</i> , 2017 , 13,	11	2
162	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

161	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
160	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
159	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
158	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
157	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
156	Tuning Surface Structure and Strain in Pd-Pt Core-Shell Nanocrystals for Enhanced Electrocatalytic Oxygen Reduction. <i>Small</i> , 2017 , 13, 1603423	11	76
155	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
154	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
153	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
152	Preparation and Catalytic Activity of a Novel Nanocrystalline ZrO @C Composite for Hydrogen Storage in NaAlH. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3541-3549	4.5	14
151	Synthesis of CsH and its effect on the hydrogen storage properties of the Mg(NH ₂) ₂ -2LiH system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11264-11274	6.7	14
150	Destabilization of combined Ca(BH ₄) ₂ and Mg(AlH ₄) ₂ for improved hydrogen storage properties. <i>Journal of Alloys and Compounds</i> , 2016 , 670, 135-143	5.7	21
149	Hydrogen storage properties and mechanisms of a Mg(BH ₄) ₂ /2NH ₃ /NaAlH ₄ combination system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 2788-2796	6.7	11
148	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
147	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
146	An ultrasound-assisted wet-chemistry approach towards uniform Mg(BH ₄) ₂ /6NH ₃ nanoparticles with improved dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8366-8373	13	15
145	Tailoring Thermodynamics and Kinetics for Hydrogen Storage in Complex Hydrides towards Applications. <i>Chemical Record</i> , 2016 , 16, 189-204	6.6	49
144	Mechanistic understanding of CoO-catalyzed hydrogen desorption from a LiBH ₄ /NH ₃ -3LiH system. <i>Dalton Transactions</i> , 2015 , 44, 14514-22	4.3	7

143	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
142	Synthesis of a Nanosized Carbon-Supported Ni Composite and Its Remarkable Catalysis for Hydrogen Desorption from the LiBH ₄ /LiNH ₂ System. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24760-24768	3.8	15
141	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
140	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
139	LiBi-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
138	Composition-Dependent Reaction Pathways and Hydrogen Storage Properties of LiBH ₄ /Mg(AlH ₄) ₂ Composites. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2452-9	4.5	5
137	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
136	Synthesis temperature dependence of the structural and electrochemical properties of Mg ₂ Si anodic materials prepared via a hydrogen-driven chemical reaction. <i>Ionics</i> , 2015 , 21, 2439-2445	2.7	3
135	Electrochemical properties of the ternary alloy Li ₅ AlSi ₂ synthesized by reacting LiH, Al and Si as an anodic material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015 , 283, 54-60	8.9	12
134	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
133	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
132	Insights into the dehydrogenation reaction process of a K-containing Mg(NH ₂) ₂ ·2LiH system. <i>Dalton Transactions</i> , 2015 , 44, 18012-8	4.3	16
131	Towards the endothermic dehydrogenation of nanoconfined magnesium borohydride ammoniate. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11057-11065	13	19
130	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
129	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
128	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
127	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
126	A Novel synthesis of MgS and its application as electrode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 603, 158-166	5.7	29

125	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
124	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
123	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
122	Compositional effects on the hydrogen storage properties of Mg(NH ₂) ₂ -2LiH-xKH and the activity of KH during dehydrogenation reactions. <i>Dalton Transactions</i> , 2014 , 43, 2369-77	4.3	33
121	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
120	Effect of gas back pressure on hydrogen storage properties and crystal structures of Li ₂ Mg(NH) ₂ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 17754-17764	6.7	12
119	Thermal dehydrogenation behaviors and mechanisms of Mg(BH ₄) ₂ /NH ₃ -xLiH combination systems. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11999-12006	6.7	8
118	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , 2014 , 5, 3519	17.4	115
117	Superior dehydrogenation/hydrogenation kinetics and long-term cycling performance of K and Rb cocatalyzed Mg(NH ₂) ₂ -2LiH system. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17024-33	9.5	30
116	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
115	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
114	Preparation of mesohollow and microporous carbon nanofiber and its application in cathode material for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 608, 220-228	5.7	107
113	Fabrication and Mechanical Properties of SiCw(p)/SiC-Si Composites by Liquid Si Infiltration using Pyrolysed Rice Husks and SiC Powders as Precursors. <i>BioResources</i> , 2014 , 9,	1.3	1
112	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
111	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
110	Hydrogen storage properties and mechanisms of Mg(BH ₄) ₂ /NH ₃ /MgH ₂ combination systems. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 674-680	5.7	24
109	Enhanced cycle stability of micro-sized Si/C anode material with low carbon content fabricated via spray drying and in situ carbonization. <i>Journal of Alloys and Compounds</i> , 2014 , 604, 130-136	5.7	39
108	Hydrogen Storage Materials 2013 , 377-405		4

107	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
106	Ca(BH ₄) ₂ ·i-BH 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
105	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
104	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
103	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
102	Remarkable decrease in dehydrogenation temperature of LiBH ₄ hydrogen storage system with CoO additive. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13318-13327	6.7	17
101	TiF ₄ -doped Mg(AlH ₄) ₂ with significantly improved dehydrogenation properties. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13343-13351	6.7	14
100	Synthesis and thermal decomposition behaviors of magnesium borohydride ammoniates with controllable composition as hydrogen storage materials. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 476-81	4.5	37
99	FeO/C anode materials of high capacity and cycle stability for lithium-ion batteries synthesized by carbothermal reduction. <i>Journal of Alloys and Compounds</i> , 2013 , 565, 97-103	5.7	54
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