

Yong-Feng Liu

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#	Paper	IF	Citations
232	Advanced hydrogen storage alloys for Ni/MH rechargeable batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4743-4755		386
231	Rare earthMgNi-based hydrogen storage alloys as negative electrode materials for Ni/MH batteries. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 675-686	5.7	235
230	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
229	Size-dependent kinetic enhancement in hydrogen absorption and desorption of the Li-Mg-N-H system. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1862-70	16.4	179
228	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
227	Potassium-modified Mg(NH ₂) ₂ /2 LiH system for hydrogen storage. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5828-32	16.4	166
226	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
225	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
224	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
223	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
222	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , 2014 , 5, 3519	17.4	115
221	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
220	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
219	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
218	Improvement of Hydrogen Storage Properties of the LiMgNi System by Addition of LiBH ₄ . <i>Chemistry of Materials</i> , 2008 , 20, 4398-4402	9.6	98
217	Hydrogen release from Mg(NH ₂) ₂ -MgH ₂ through mechanochemical reaction. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14688-92	3.4	96
216	The effect of Mn substitution for Ni on the structural and electrochemical properties of La _{0.7} Mg _{0.3} Ni _{2.55-x} Co _{0.45} Mn _x hydrogen storage electrode alloys. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 297-305	6.7	93

215	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
214	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
213	Metal- μ systems for the hydrogen storage. <i>Scripta Materialia</i> , 2007 , 56, 817-822	5.6	85
212	Structural and Compositional Changes during Hydrogenation/Dehydrogenation of the LiMgNi μ System. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18439-18443	3.8	82
211	Ultrafine SnO ₂ dispersed carbon matrix composites derived by a sol-gel method as anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2010 , 55, 9067-9074	6.7	78
210	Tuning Surface Structure and Strain in Pd-Pt Core-Shell Nanocrystals for Enhanced Electrocatalytic Oxygen Reduction. <i>Small</i> , 2017 , 13, 1603423	11	76
209	Effect of Co content on the structural and electrochemical properties of the La _{0.7} Mg _{0.3} Ni _{3.4} Mn _{0.1} Cox hydride alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 376, 304-313	5.7	73
208	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
207	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
206	LiMgNi μ -based combination systems for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 7844-7853	5.7	67
205	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
204	XRD study on the electrochemical hydriding/dehydriding behavior of the LaMgNiCo-type hydrogen storage alloys. <i>Journal of Alloys and Compounds</i> , 2005 , 403, 296-304	5.7	66
203	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
202	Function of Al on the cycling behavior of the LaMgNiCo-type alloy electrodes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 124-133	6.7	65
201	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
200	Hydrogen Storage in a LiNH ₂ /MgH ₂ (1:1) System. <i>Chemistry of Materials</i> , 2008 , 20, 3521-3527	9.6	63
199	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
198	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

197	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
196	Effect of the cerium content on the structural and electrochemical properties of the $\text{La}_{0.7-x}\text{Ce}_x\text{Mg}_{0.3}\text{Ni}_{2.875}\text{Mn}_{0.1}\text{Co}_{0.525}$ ($x=0-0.5$) hydrogen storage alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 373, 237-245	5.7	59
195	Improved hydrogen storage kinetics of the Li-Mg-N-H system by addition of $\text{Mg}(\text{BH}_4)_2$. <i>Dalton Transactions</i> , 2013 , 42, 3802-11	4.3	58
194	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
193	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
192	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
191	Metathesis Reaction-Induced Significant Improvement in Hydrogen Storage Properties of the KF-Added $\text{Mg}(\text{NH}_2)_2/\text{LiH}$ System. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 866-875	3.8	54
190	The electrochemical performance of a $\text{La}_{0.7}\text{Mg}_{0.3}\text{Ni}_{2.65}\text{Co}_{0.1}\text{Mn}_{0.75}$ metal hydride electrode alloy in the temperature range of 0 to 30 °C. <i>Electrochimica Acta</i> , 2004 , 49, 545-555	6.7	53
189	Mechanisms for the enhanced hydrogen desorption performance of the TiF_4 -catalyzed $\text{Na}_2\text{LiAlH}_6$ used for hydrogen storage. <i>Energy and Environmental Science</i> , 2010 , 3, 645	35.4	52
188	Electrochemical Properties of the $\text{La}_{0.7}\text{Mg}_{0.3}\text{Ni}_{2.65}\text{Mn}_{0.1}\text{Co}_{0.75}\text{Al}_x$ ($x = 0-0.5$) Hydrogen Storage Alloy Electrodes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A326	3.9	49
187	Hydrogen storage and electrochemical properties of the $\text{La}_{0.7}\text{Mg}_{0.3}\text{Ni}_{3.825}\text{Co}_{0.675}\text{Mn}_x$ hydrogen storage electrode alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 365, 246-252	5.7	49
186	Tailoring Thermodynamics and Kinetics for Hydrogen Storage in Complex Hydrides towards Applications. <i>Chemical Record</i> , 2016 , 16, 189-204	6.6	49
185	The correlative effects of Al and Co on the structure and electrochemical properties of a $\text{La}_{0.7}\text{Mg}_{0.3}\text{Ni}_{2.65}\text{Co}_x$ -based hydrogen storage electrode alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 496, 454-461	5.7	48
184	Degradation Mechanism of the La-Mg-Ni-Based Metal Hydride Electrode $\text{La}_{0.7}\text{Mg}_{0.3}\text{Ni}_{3.4}\text{Mn}_{0.1}$. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1089	3.9	48
183	Highly Stable Cycling of Amorphous Li_2CO_3 -Coated Fe_2O_3 Nanocrystallines Prepared via a New Mechanochemical Strategy for Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1605011	15.6	46
182	XRD study of the hydrogenation and dehydrogenation process of the two different phase components in a TiV -based multiphase hydrogen storage electrode alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 370, 254-260	5.7	45
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	Understanding the role of K in the significantly improved hydrogen storage properties of a KOH-doped LiMgNiH system. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5031	13	44

179	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
178	High-rate capability of LiFePO ₄ cathode materials containing Fe ₂ P and trace carbon. <i>Journal of Power Sources</i> , 2012 , 199, 256-262	8.9	43
177	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
176	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
175	Multi-hydride systems with enhanced hydrogen storage properties derived from Mg(BH ₄) ₂ and LiAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10733-10742	6.7	42
174	Structure and electrochemical properties of the Fe substituted Ti ^{IV} -based hydrogen storage alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 189-195	5.7	42
173	Formation Reactions and the Thermodynamics and Kinetics of Dehydrogenation Reaction of Mixed Alanate Na ₂ LiAlH ₆ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7978-7984	3.8	41
172	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
171	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
170	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
169	Reaction pathways determined by mechanical milling process for dehydrogenation/hydrogenation of the LiNH ₂ /MgH ₂ system. <i>Chemistry - A European Journal</i> , 2010 , 16, 693-702	4.8	39
168	Effect of Co content on the structural and electrochemical properties of the La _{0.7} Mg _{0.3} Ni _{3.4} Mn _{0.1} Cox hydride alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 376, 296-303	5.7	39
167	Enhanced dehydrogenation/hydrogenation kinetics of the Mg(NH ₂) ₂ /LiH system with NaOH additive. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 2137-2144	6.7	38
166	Synthesis and characterization of a new ternary imide-Li ₂ Ca(NH) ₂ . <i>Inorganic Chemistry</i> , 2007 , 46, 517-21	5.1	38
165	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
164	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
163	Synergetic effects of in situ formed CaH ₂ and LiBH ₄ on hydrogen storage properties of the Li-Mg-N-H system. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 374-84	4.5	37
162	Improvement of the hydrogen-storage performances of LiMgNH system. <i>Journal of Materials Research</i> , 2007 , 22, 1339-1345	2.5	37

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	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
159	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
158	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
157	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
156	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
155	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
154	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
153	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
152	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
151	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
150	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
149	Hydrogen storage properties and mechanisms of the Mg(BH ₄) ₂ /LiAlH ₄ system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17137-17145	6.7	32
148	Functions of MgH ₂ in hydrogen storage reactions of the 6LiBH ₄ -CaH ₂ reactive hydride composite. <i>Dalton Transactions</i> , 2012 , 41, 10980-7	4.3	32
147	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
146	Synthesis and hydrogen storage thermodynamics and kinetics of Mg(AlH ₄) ₂ submicron rods. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18148-18154	6.7	31
145	Local defects enhanced dehydrogenation kinetics of the NaBH ₄ -added Li-Mg-N-H system. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 314-21	3.6	31
144	An improvement on cycling stability of Ti/V/Fe-based hydrogen storage alloys with Co substitution for Ni. <i>Journal of Power Sources</i> , 2008 , 184, 627-632	8.9	31

143	Electrochemical performances of the Pd-added Ti-V-based hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 728-734	6.7	31
142	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
141	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
140	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
139	Effects of rare earth elements substitution for Ti on the structure and electrochemical properties of a Fe-doped TiV-based hydrogen storage alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 249-255	5.7	30
138	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
137	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
136	Improved hydrogen-storage thermodynamics and kinetics for an RbF-doped Mg(NH ₂) ₂ -2 LiH system. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2136-43	4.5	29
135	Pulverization mechanism of the multiphase TiV-based hydrogen storage electrode alloy during charge/discharge cycling. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 552-557	5.7	29
134	Effects of triphenyl phosphate on the hydrogen storage performance of the Mg(NH ₂) ₂ ·2LiH system. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2141		29
133	Influence of Mn content on the structural and electrochemical properties of the La _{0.7} Mg _{0.3} Ni _{4.25} Co _{0.75} Mn _x hydrogen storage alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 372, 163-172	5.3	29
132	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
131	Large Amount of Hydrogen Desorption from the Mixture of Mg(NH ₂) ₂ and LiAlH ₄ . <i>Journal of Physical Chemistry C</i> , 2007 , 111, 19161-19164	3.8	28
130	Role of particle size, grain size, microstrain and lattice distortion in improved dehydrogenation properties of the ball-milled Mg(AlH ₄) ₂ . <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1460-1468	6.7	27
129	Microstructure and electrochemical properties of TiV-based multiphase hydrogen storage electrode alloys Ti _{0.8} Zr _{0.2} V _{2.7} Mn _{0.5} Cr _{0.8-x} Ni _{1.25} Fe _x Ti _{0.8} Zr _{0.2} V _{2.7} Mn _{0.5} Cr _{0.8-x} Ni _{1.25} Fe _x (x=0.00.8)(x=0.00.8). <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 3947-3953	6.7	27
128	Structural and Electrochemical Properties of the La _{0.7} Mg _{0.3} Ni _{2.975} Co _{0.525} Mn _x Hydrogen Storage Electrode Alloys. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A374	3.9	27
127	A study on the cycling stability of the TiV-based hydrogen storage electrode alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 364, 271-279	5.7	27
126	Mechanistic investigations on significantly improved hydrogen storage performance of the Ca(BH ₄) ₂ -added 2LiNH ₂ /MgH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5030-5038	6.7	26

125	Investigations on hydrogen desorption from the mixture of Mg(NH ₂) ₂ and CaH ₂ . <i>Journal of Alloys and Compounds</i> , 2007 , 432, 298-302	5.7	26
124	A study on improving the cycling stability of (Ti _{0.8} Zr _{0.2})(V _{0.533} Mn _{0.107} Cr _{0.16} Ni _{0.2}) ₄ hydrogen storage electrode alloy by means of annealing treatment: II. Effects on the electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2003 , 348, 301-308	5.7	26
123	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
122	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
121	Heating Rate-Dependent Dehydrogenation in the Thermal Decomposition Process of Mg(BH ₄) ₂ ·NH ₃ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16326-16335	3.8	25
120	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
119	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
118	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
117	Formation and Equilibrium of Ammonia in the Mg(NH ₂) ₂ ·LiH Hydrogen Storage System. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1293-1298	3.8	24
116	Effects of Reductive Conditions on the Microstructure and Electrochemical Properties of Sol-Gel Derived LiFePO ₄ . <i>Journal of the Electrochemical Society</i> , 2007 , 154, A1124	3.9	24
115	Investigation on the characteristics of La _{0.7} Mg _{0.3} Ni _{2.65} Mn _{0.1} Co _{0.75+x} (x = 0.000-0.85) metal hydride electrode alloys for Ni/MH batteries Part II: Electrochemical performances. <i>Journal of Alloys and Compounds</i> , 2005 , 388, 109-117	5.7	24
114	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
113	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
112	High-temperature failure behaviour and mechanism of K-based additives in LiMg ₂ NH hydrogen storage systems. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7345-7353	13	23
111	Effects of Cr on the structural and electrochemical properties of TiV-based two-phase hydrogen storage alloys. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 669-674	5.7	23
110	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
109	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
108	Hydrogen storage reaction over a ternary imide Li ₂ Mg ₂ N ₃ H ₃ . <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3108-11	3.6	22

107	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
106	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
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104	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
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