

Xue-Zhang Xiao

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.

158
papers

3,339
citations

33
h-index

46
g-index

165
ext. papers

4,177
ext. citations

7.2
avg, IF

5.48
L-index

#	Paper	IF	Citations
158	Achieving excellent cycle stability in ZrNbCoNi based hydrogen isotope storage alloys by controllable phase transformation reaction. <i>Renewable Energy</i> , 2022 , 187, 500-507	8.1	0
157	Ultrahigh reversible hydrogen capacity and synergetic mechanism of 2LiBH ₄ -MgH ₂ system catalyzed by dual-metal fluoride. <i>Chemical Engineering Journal</i> , 2022 , 433, 134482	14.7	3
156	Dynamically Staged Phase Transformation Mechanism of Co-Containing Rare Earth-Based Metal Hydrides with Unexpected Hysteresis Amelioration. <i>ACS Applied Energy Materials</i> , 2022 , 5, 3783-3792	6.1	0
155	Study on low-vanadium TiZrMnCrV based alloys for high-density hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	2
154	0D/1D/2D Co@Co ₂ Mo ₃ O ₈ nanocomposite constructed by mutual-supported Co ₂ Mo ₃ O ₈ nanosheet and Co nanoparticle: Synthesis and enhanced hydrolytic dehydrogenation of ammonia borane. <i>Chemical Engineering Journal</i> , 2021 , 431, 133697	14.7	2
153	A dandelion-like amorphous composite catalyst with outstanding performance for sodium borohydride hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 10809-10818	6.7	3
152	Hydrogen desorption from MgH ₂ +NH ₄ Cl/graphene composites at low temperatures. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124342	4.4	2
151	Improved reversible dehydrogenation properties of Mg(BH ₄) ₂ catalyzed by dual-cation transition metal fluorides K ₂ TiF ₆ and K ₂ NbF ₇ . <i>Chemical Engineering Journal</i> , 2021 , 412, 128738	14.7	5
150	The dehydrogenation kinetics and reversibility improvements of Mg(BH ₄) ₂ doped with Ti nano-particles under mild conditions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 23737-23737	6.7	5
149	Investigation on TiZrCrBeV based alloys for metal hydride hydrogen compressor at moderate working temperatures. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21580-21589	6.7	8
148	Dual-Ion Substitution-Induced Unique Electronic Modulation to Stabilize an Orthorhombic Lattice towards Reversible Hydrogen Isotope Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 9139-9148	8.3	1
147	Positive impacts of tuning lattice on cyclic performance in ZrCo-based hydrogen isotope storage alloys. <i>Materials Today Energy</i> , 2021 , 20, 100645	7	3
146	Enhanced hydrogen storage properties of high-loading nanoconfined LiBH ₄ /Mg(BH ₄) ₂ composites with porous hollow carbon nanospheres. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 852-864	6.7	10
145	Tuning electrolyte enables micro-sized Sn as an advanced anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1812-1821	13	10
144	Highly efficient ZrH ₂ nanocatalyst for the superior hydrogenation kinetics of magnesium hydride under moderate conditions: Investigation and mechanistic insights. <i>Applied Surface Science</i> , 2021 , 541, 148375	6.7	8
143	Superior catalysis of NbN nanoparticles with intrinsic multiple valence on reversible hydrogen storage properties of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 814-822	6.7	6
142	Heterostructured Ni/NiO Nanoparticles on 1D Porous MoO _x for Hydrolysis of Ammonia Borane. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1208-1217	6.1	5

141	Low-cost batteries based on industrial waste Al-Si microparticles and LiFePO for stationary energy storage. <i>Dalton Transactions</i> , 2021 , 50, 8322-8329	4.3	3
140	Microstructure and hydrogen storage properties of Ti ₁₀ +xV ₈₀ -xFe ₆ Zr ₄ (x=0~15) alloys. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 27622-27630	6.7	0
139	Studies on Ti-Zr-Cr-Mn-Fe-V based alloys for hydrogen compression under mild thermal conditions of water bath. <i>Journal of Alloys and Compounds</i> , 2021 , 892, 162145	5.7	3
138	Enhancing Hydrogen Storage Kinetics and Cycling Properties of NaMgH ₃ by 2D Transition Metal Carbide MXene Ti ₃ C ₂ . <i>Processes</i> , 2021 , 9, 1690	2.9	2
137	Development of Ti-Zr-Mn-Cr-V based alloys for high-density hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2021 , 875, 160035	5.7	10
136	An impact of hydrogenation phase transformation mechanism on the cyclic stabilizing behavior of Zr _{0.8} Ti _{0.2} Co alloy for hydrogen isotope handling. <i>Materials Today Energy</i> , 2020 , 18, 100554	7	5
135	Self-templated carbon enhancing catalytic effect of ZrO ₂ nanoparticles on the excellent dehydrogenation kinetics of MgH ₂ . <i>Carbon</i> , 2020 , 166, 46-55	10.4	16
134	LiAlH ₄ as a Microlighter on the Fluorographite Surface Triggering the Dehydrogenation of Mg(BH ₄) ₂ : Toward More than 7 wt % Hydrogen Release below 70 °C. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3033-3041	6.1	10
133	Enhancing the reversibility of SnCoS ₄ microflower for sodium-ion battery anode material. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154104	5.7	9
132	Insights into 2D graphene-like TiO ₂ (B) nanosheets as highly efficient catalyst for improved low-temperature hydrogen storage properties of MgH ₂ . <i>Materials Today Energy</i> , 2020 , 16, 100411	7	14
131	Extreme high reversible capacity with over 8.0 wt% and excellent hydrogen storage properties of MgH ₂ combined with LiBH ₄ and Li ₃ AlH ₆ . <i>Journal of Energy Chemistry</i> , 2020 , 50, 296-306	12	11
130	Dehydrogenation Performances of Different Al Source Composite Systems of 2LiBH + M (M = Al, LiAlH, LiAlH). <i>Frontiers in Chemistry</i> , 2020 , 8, 227	5	4
129	Ultra-fast dehydrogenation behavior at low temperature of LiAlH ₄ modified by fluorographite. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 28123-28133	6.7	3
128	Remarkable hydrogen absorption/desorption behaviors and mechanism of sodium alanates in-situ doped with Ti-based 2D MXene. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122529	4.4	15
127	In-situ synthesis of amorphous Mg(BH ₄) ₂ and chloride composite modified by NbF ₅ for superior reversible hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2044-2053	6.7	13
126	Superior de/hydrogenation performances of MgH ₂ catalyzed by 3D flower-like TiO ₂ @C nanostructures. <i>Journal of Energy Chemistry</i> , 2020 , 46, 191-198	12	42
125	The functioning mechanism of Al valid substitution for Co in improving the cycling performance of ZrCoAl based hydrogen isotope storage alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156618	5.7	7
124	Probing an intermediate state by X-ray absorption near-edge structure in nickel-doped 2LiBH ₄ /MgH ₂ reactive hydride composite at moderate temperature. <i>Materials Today Nano</i> , 2020 , 12, 100090	9.7	11

123	Insights into magnesium borohydride dehydrogenation mechanism from its partial reversibility under moderate conditions. <i>Materials Today Energy</i> , 2020 , 18, 100552	7	2
122	An in-depth study on the thermodynamics and kinetics of disproportionation behavior in ZrCoH ₂ systems. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9322-9330	13	11
121	Excellent Catalysis of Various TiO ₂ Dopants with Na _{0.46} TiO ₂ in Situ Formed on the Enhanced Dehydrogenation Properties of NaMgH ₃ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22832-22841	3.8	6
120	Synergistic catalysis in monodispersed transition metal oxide nanoparticles anchored on amorphous carbon for excellent low-temperature dehydrogenation of magnesium hydride. <i>Materials Today Energy</i> , 2019 , 12, 146-154	7	33
119	Facile formation of NiCo ₂ O ₄ yolk-shell spheres for highly reversible sodium storage. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 125-133	5.7	12
118	Study on the modification of Zr-Mn-V based alloys for hydrogen isotopes storage and delivery. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 185-193	5.7	11
117	Highly dispersed metal nanoparticles on TiO ₂ acted as nano redox reactor and its synergistic catalysis on the hydrogen storage properties of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15100-15109	6.7	18
116	Novel 1D carbon nanotubes uniformly wrapped nanoscale MgH ₂ for efficient hydrogen storage cycling performances with extreme high gravimetric and volumetric capacities. <i>Nano Energy</i> , 2019 , 61, 540-549	17.1	56
115	Rational design of Sn-Sb-S composite with yolk-shell hydrangea-like structure as advanced anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 620-626	5.7	12
114	Excellent catalysis of TiO nanosheets with high-surface-energy {001} facets on the hydrogen storage properties of MgH. <i>Nanoscale</i> , 2019 , 11, 7465-7473	7.7	52
113	PdCoNi nanoparticles supported on nitrogen-doped porous carbon nanosheets for room temperature dehydrogenation of formic acid. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11675-11683	6.7	14
112	Facile synthesis of Co/Pd supported by few-walled carbon nanotubes as an efficient bidirectional catalyst for improving the low temperature hydrogen storage properties of magnesium hydride. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5277-5287	13	40
111	Improvement on the kinetic and thermodynamic characteristics of Zr _{1-x} Nb _x Co (x = 0.0, 0.2) alloys for hydrogen isotope storage and delivery. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1062-1070	5.7	21
110	Enhanced low temperature hydrogen desorption properties and mechanism of Mg(BH ₄) ₂ composited with 2D MXene. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24292-24300	6.7	17
109	In-situ formation of ultrafine MgNi ₃ B ₂ and TiB ₂ nanoparticles: Heterogeneous nucleating and grain coarsening retardant agents for magnesium borate in LiMgBH ₄ reactive hydride composite. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 27529-27541	6.7	5
108	A new strategy for remarkably improving anti-disproportionation performance and cycling stabilities of ZrCo-based hydrogen isotope storage alloys by Cu substitution and controlling cutoff desorption pressure. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28242-28251	6.7	16
107	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. <i>Nature Energy</i> , 2019 , 4, 882-890	62.3	267
106	Excellent synergistic catalytic mechanism of in-situ formed nanosized Mg ₂ Ni and multiple valence titanium for improved hydrogen desorption properties of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1750-1759	6.7	35

105	ZIF-67 derived Co@CNTs nanoparticles: Remarkably improved hydrogen storage properties of MgH ₂ and synergetic catalysis mechanism. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1059-1069	6.7	67
104	AuPd Nanoparticles Anchored on Nitrogen-Decorated Carbon Nanosheets with Highly Efficient and Selective Catalysis for the Dehydrogenation of Formic Acid. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4792-4801	3.8	18
103	GeP ₅ /C composite as anode material for high power sodium-ion batteries with exceptional capacity. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 15-22	5.7	20
102	Highly synergetic catalytic mechanism of Ni@g-C ₃ N ₄ on the superior hydrogen storage performance of Li-Mg-B-H system. <i>Energy Storage Materials</i> , 2018 , 13, 199-206	19.4	39
101	In situ synthesized SnO nanorod/reduced graphene oxide low-dimensional structure for enhanced lithium storage. <i>Nanotechnology</i> , 2018 , 29, 105705	3.4	7
100	Non-noble trimetallic Cu-Ni-Co nanoparticles supported on metal-organic frameworks as highly efficient catalysts for hydrolysis of ammonia borane. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 501-508	5.7	37
99	Synergistic Effect of LiBH ₄ and LiAlH ₄ Additives on Improved Hydrogen Storage Properties of Unexpected High Capacity Magnesium Hydride. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2528-2538	3.8	22
98	Superior Reversible Hydrogen Storage Properties and Mechanism of LiBH ₄ /MgH ₂ /Al Doped with NbF ₅ Additive. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7613-7620	3.8	12
97	Effect of rare earth doping on the hydrogen storage performance of Ti _{1.02} Cr _{1.1} Mn _{0.3} Fe _{0.6} alloy for hybrid hydrogen storage application. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 524-530	5.7	33
96	Synergistic Catalytic Activity of Porous Rod-like TMTiO ₃ (TM = Ni and Co) for Reversible Hydrogen Storage of Magnesium Hydride. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27973-27982	3.8	43
95	Enhanced reversible hydrogen desorption properties and mechanism of Mg(BH ₄) ₂ -AlH ₃ -LiH composite. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 548-554	5.7	9
94	Facile synthesis of AuPd nanoparticles anchored on TiO nanosheets for efficient dehydrogenation of formic acid. <i>Nanotechnology</i> , 2018 , 29, 335402	3.4	9
93	Ternary perovskite cobalt titanate/graphene composite material as long-term cyclic anode for lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2017 , 700, 54-60	5.7	22
92	Transition metal (Co, Ni) nanoparticles wrapped with carbon and their superior catalytic activities for the reversible hydrogen storage of magnesium hydride. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4019-4029	3.6	63
91	Enhanced hydrogen storage properties of MgH ₂ with numerous hydrogen diffusion channels provided by Na ₂ Ti ₃ O ₇ nanotubes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6178-6185	13	69
90	La ₂ O ₃ -modified highly dispersed AuPd alloy nanoparticles and their superior catalysis on the dehydrogenation of formic acid. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 9353-9360	6.7	19
89	Significantly enhanced hydrogen desorption properties of Mg(AlH ₄) ₂ nanoparticles synthesized using solvent free strategy. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 112-120	3.6	12
88	Carbon coated sodium-titanate nanotube as an advanced intercalation anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 365-372	5.7	32

87	Facile synthesis of bowl-like 3D Mg(BH ₄) ₂ /NaBH ₄ /fluorographene composite with unexpected superior dehydrogenation performances. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9723-9732	13	24
86	In situ synthesis of ultrasmall SnO ₂ quantum dots on nitrogen-doped reduced graphene oxide composite as high performance anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 1-7	5.7	16
85	Study on the dehydrogenation properties and reversibility of Mg(BH ₄) ₂ AlH ₃ composite under moderate conditions. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 8050-8056	6.7	16
84	Functional Nanomaterials for Renewable Energy and Sustainability. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-1	3.2	
83	Enhanced hydrogen storage properties of a dual-cation (Li ⁺ , Mg ²⁺) borohydride and its dehydrogenation mechanism. <i>RSC Advances</i> , 2017 , 7, 36852-36859	3.7	7
82	Effect of Mn substitution for Co on the structural, kinetic, and thermodynamic characteristics of ZrCo _{1-x} Mn _x (x=0.1) alloys for tritium storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 28498-28506	6.7	17
81	Synthesis of nanoscale CeAl ₄ and its high catalytic efficiency for hydrogen storage of sodium alanate. <i>Rare Metals</i> , 2017 , 36, 77-85	5.5	11
80	A new strategy to remarkably improve the low-temperature reversible hydrogen desorption performances of LiBH ₄ by compositing with fluorographene. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 20046-20055	6.7	11
79	Effects of supplementing sow diets with refermented sorghum dried distiller's grains with solubles from late gestation to weaning on the performance of sows and progeny. <i>Journal of Animal Science</i> , 2017 , 95, 2025-2031	0.7	6
78	Building robust architectures of carbon-wrapped transition metal nanoparticles for high catalytic enhancement of the 2LiBH ₄ -MgH ₂ system for hydrogen storage cycling performance. <i>Nanoscale</i> , 2016 , 8, 14898-908	7.7	19
77	Ternary perovskite nickel titanate/reduced graphene oxide nano-composite with improved lithium storage properties. <i>RSC Advances</i> , 2016 , 6, 61312-61318	3.7	18
76	Effects of Ti-based additives on Mg ₂ FeH ₆ dehydrogenation properties. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 791-798	3.3	7
75	Facile preparation of MgH ₂ /nanocomposites under mild conditions and pathways to rapid dehydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10492-8	3.6	34
74	Novel AgPd hollow spheres anchored on graphene as an efficient catalyst for dehydrogenation of formic acid at room temperature. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 657-666	13	59
73	Enhanced hydrogen desorption properties of LiBH ₄ /Mg(BH ₄) ₂ by a synergetic effect of nanoconfinement and catalysis. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 17462-17470	6.7	21
72	Remarkable hydrogen desorption properties and mechanisms of the Mg ₂ FeH ₆ @MgH ₂ core-shell nanostructure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5517-5524	13	49
71	Influence of annealing treatment on the microstructure and hydrogen storage performance of Ti _{1.02} Cr _{1.1} Mn _{0.3} Fe _{0.6} alloy for hybrid hydrogen storage application. <i>Journal of Alloys and Compounds</i> , 2015 , 636, 117-123	5.7	15
70	Composite cooperative enhancement on the hydrogen desorption kinetics of LiBH ₄ by co-doping with NbCl ₅ and hexagonal BN. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10527-10535	6.7	20

69	Enhanced hydrogen storage capacity and reversibility of LiBH ₄ nanoconfined in the densified zeolite-templated carbon with high mechanical stability. <i>Nano Energy</i> , 2015 , 15, 244-255	17.1	48
68	Remarkable enhancement in dehydrogenation properties of Mg(BH ₄) ₂ modified by the synergetic effect of fluorographite and LiBH ₄ . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14163-14172	6.7	19
67	Remarkably Improved Hydrogen Storage Performance of MgH ₂ Catalyzed by Multivalence NbH _x Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8554-8562	3.8	58
66	Significantly improved de/rehydrogenation properties of lithium borohydride modified with hexagonal boron nitride. <i>RSC Advances</i> , 2015 , 5, 51110-51115	3.7	11
65	Influence of Ti super-stoichiometry on the hydrogen storage properties of Ti _{1+x} Cr _{1.2} Mn _{0.2} Fe _{0.6} (x = 0.1) alloys for hybrid hydrogen storage application. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 307-317	5.7	34
64	Comprehensive hydrogen storage properties and catalytic mechanism studies of 2LiBH ₄ /MgH ₂ system with NbF ₅ in various addition amounts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7050-7059	6.7	15
63	Improved de/hydrogenation properties and favorable reaction mechanism of CeH ₂ + KH co-doped sodium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6577-6587	6.7	11
62	Superior dehydrogenation performance of nanoscale lithium borohydride modified with fluorographite. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 896-904	6.7	17
61	Enhanced reversible hydrogen storage performance of NbCl ₅ doped 2LiH/MgB ₂ composite. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2132-2141	6.7	7
60	Low-Temperature Combustion-Synthesized Nickel Oxide Thin Films as Hole-Transport Interlayers for Solution-Processed Optoelectronic Devices. <i>Advanced Energy Materials</i> , 2014 , 4, 1301460	21.8	97
59	Low-Temperature Reversible Hydrogen Storage Properties of LiBH ₄ : A Synergetic Effect of Nanoconfinement and Nanocatalysis. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11252-11260	3.8	46
58	Fast hydrogen release under moderate conditions from NaBH ₄ destabilized by fluorographite. <i>RSC Advances</i> , 2014 , 4, 2550-2556	3.7	19
57	In situ synthesis of SnO ₂ nanoparticles encapsulated in micro/mesoporous carbon foam as a high-performance anode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18367-18374	13	56
56	Carbon encapsulated 3D hierarchical Fe ₃ O ₄ spheres as advanced anode materials with long cycle lifetimes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14641-14648	13	57
55	Enhanced hydrogen storage properties of LiBH ₄ modified by NbF ₅ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11675-11682	6.7	26
54	SnLi _{4.4} nanoparticles encapsulated in carbon matrix as high performance anode material for lithium-ion batteries. <i>Nano Energy</i> , 2014 , 9, 196-203	17.1	29
53	Fluorographene nanosheets enhanced hydrogen absorption and desorption performances of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12715-12726	6.7	23
52	Enhanced dehydrogenation performances and mechanism of LiBH ₄ /Mg ₁₇ Al ₁₂ -hydride composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 152-157	3.3	7

51	Superior Catalytic Effects of Transition Metal Boride Nanoparticles on the Reversible Hydrogen Storage Properties of Li-Mg-B-H System. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 195-200 ^{3,1}	3.1	10
50	A low temperature mechanochemical synthesis and characterization of amorphous NiB ultrafine nanoparticles. <i>Materials Letters</i> , 2013 , 109, 203-206	3.3	18
49	Influence of lanthanon hydride catalysts on hydrogen storage properties of sodium alanates. <i>Journal of Rare Earths</i> , 2013 , 31, 502-506	3.7	6
48	Significantly improved hydrogen storage properties of NaAlH ₄ catalyzed by Ce-based nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9752	13	28
47	Enhanced hydriding/dehydriding performance of a 2LiH/MgB ₂ composite by the catalytic effects of NiB nanoparticles. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10184	13	22
46	High catalytic efficiency of amorphous TiB ₂ and NbB ₂ nanoparticles for hydrogen storage using the 2LiBH ₄ /MgH ₂ system. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11368	13	35
45	Development of TiCrMnFe based alloys with high hydrogen desorption pressures for hybrid hydrogen storage vessel application. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 12803-12810	6.7	45
44	Size effect on hydrogen storage properties of NaAlH ₄ confined in uniform porous carbons. <i>Nano Energy</i> , 2013 , 2, 995-1003	17.1	34
43	Synergetic Effect of in Situ Formed Nano NbH and LiH _{1-x} F _x for Improving Reversible Hydrogen Storage Properties of the Li/MgB ₂ System. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12019-12025	3.8	12
42	Enhanced hydriding/dehydriding performance of 2LiBH ₄ /MgH ₂ composite by the catalytic effects of transition metal chlorides. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20764		51
41	Effects of Fluoride Additives on the Hydrogen Storage Performance of 2LiBH ₄ /Li ₃ AlH ₆ Destabilized System. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22226-22230	3.8	10
40	Influence of heat treatment on the microstructure and hydrogen storage properties of Ti ₁₀ V ₇₇ Cr ₆ Fe ₆ Zr alloy. <i>Journal of Alloys and Compounds</i> , 2012 , 529, 128-133	5.7	23
39	A comparative study of the hydrogen storage properties of LiBH ₄ doping with CaHCl and CaH ₂ . <i>Journal of Alloys and Compounds</i> , 2012 , 539, 103-107	5.7	18
38	Effects of NbF ₅ addition on the de/rehydrogenation properties of 2LiBH ₄ /MgH ₂ hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13147-13154	6.7	39
37	Effects of fluoride additives on dehydrogenation behaviors of 2LiBH ₄ /MgH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1021-1026	6.7	38
36	Investigation on synthesis, structure and catalytic modification of Ca(AlH ₄) ₂ complex hydride. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 936-941	6.7	11
35	Hydrogen storage performance of 5LiBH ₄ + Mg ₂ FeH ₆ composite system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 6733-6740	6.7	26
34	Synthesis of calcium alanate and its dehydriding performance enhanced by FeF ₃ doping. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 590-595	5.7	9

33	Investigation on the nature of active species in the CeCl ₃ -doped sodium alanate system. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S750-S753	5-7	18
32	Synthesis and dehydrogenation of CeAl ₄ -doped calcium alanate. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S743-S746	5-7	10
31	Formation mechanism of MgB ₂ in 2LiBH ₄ + MgH ₂ system for reversible hydrogen storage. <i>Transactions of Nonferrous Metals Society of China</i> , 2011 , 21, 1040-1046	3-3	16
30	Influence of TiC catalyst on absorption/desorption behaviors and microstructures of sodium aluminum hydride. <i>Transactions of Nonferrous Metals Society of China</i> , 2011 , 21, 1297-1302	3-3	6
29	Hydriding-dehydriding kinetics and the microstructure of La- and Sm-doped NaAlH ₄ prepared via direct synthesis method. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 10861-10869	6-7	27
28	Direct synthesis and hydrogen storage behaviors of nanocrystalline Na ₂ LiAlH ₆ . <i>Journal of Materials Science</i> , 2011 , 46, 3314-3318	4-3	7
27	Enhanced Hydriding/Dehydriding Performance of CeAl ₂ -Doped NaAlH ₄ and the Evolvement of Ce-Containing Species in the Cycling. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2537-2543	3-8	36
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