

# Liquan Li

## List of Publications by Citations

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119  
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ext. citations

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L-index

#	Paper	IF	Citations
115	Metal Hydride Nanoparticles with Ultrahigh Structural Stability and Hydrogen Storage Activity Derived from Microencapsulated Nanoconfinement. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700760	24	85
114	Nickel-decorated graphene nanoplates for enhanced H <sub>2</sub> sorption properties of magnesium hydride at moderate temperatures. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2560-2570	13	77
113	State of the art multi-strategy improvement of Mg-based hydrides for hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 782, 796-823	5.7	70
112	Facile Synthesis of Carbon Supported Nano-Ni Particles with Superior Catalytic Effect on Hydrogen Storage Kinetics of MgH <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1158-1165	6.1	50
111	Remarkable Synergistic Catalysis of Ni-Doped Ultrafine TiO on Hydrogen Sorption Kinetics of MgH. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24975-24980	9.5	49
110	Effect of La/Ni ratio on hydrogen storage properties of MgNiLa system prepared by hydriding combustion synthesis followed by mechanical milling. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2970-2974	6.7	45
109	Reaction mechanism of hydriding combustion synthesis of Mg <sub>2</sub> NiH <sub>4</sub> . <i>Intermetallics</i> , <b>1999</b> , 7, 671-677	3.5	45
108	Hydrogen storage properties of MgNiCu prepared by hydriding combustion synthesis and mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 2654-2660	6.7	43
107	Effect of multi-wall carbon nanotubes supported nano-nickel and TiF <sub>3</sub> addition on hydrogen storage properties of magnesium hydride. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 669, 8-18	5.7	41
106	Effect of multi-wall carbon nanotubes supported palladium addition on hydrogen storage properties of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10184-10194	6.7	41
105	Enhancing hydrogen storage performances of MgH by Ni nano-particles over mesoporous carbon CMK-3. <i>Nanotechnology</i> , <b>2018</b> , 29, 265705	3.4	40
104	Efficient catalysis by MgCl <sub>2</sub> in hydrogen generation via hydrolysis of Mg-based hydride prepared by hydriding combustion synthesis. <i>Chemical Communications</i> , <b>2012</b> , 48, 5509-11	5.8	40
103	Significantly improved electrochemical hydrogen storage properties of magnesium nickel hydride modified with nano-nickel. <i>Journal of Power Sources</i> , <b>2015</b> , 280, 132-140	8.9	39
102	Controlling nanocrystallization and hydrogen storage property of Mg-based amorphous alloy via a gas-solid reaction. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 685, 272-277	5.7	37
101	Structural and electrochemical hydrogen storage properties of Mg <sub>2</sub> Ni-based alloys. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 5309-5314	5.7	34
100	Crystal-facet-dependent catalysis of anatase TiO <sub>2</sub> on hydrogen storage of MgH <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 822, 153553	5.7	34
99	Enhanced electrochemical hydrogen storage properties of Mg <sub>2</sub> NiH <sub>4</sub> by coating with nano-nickel. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 13949-13956	6.7	33

98	Highly efficient bimetal synergetic catalysis by a multi-wall carbon nanotube supported palladium and nickel catalyst for the hydrogen storage of magnesium hydride. <i>Chemical Communications</i> , <b>2014</b> , 50, 6641-4	5.8	32
97	Excellent catalytic effects of multi-walled carbon nanotube supported titania on hydrogen storage of a Mg-Ni alloy. <i>Chemical Communications</i> , <b>2015</b> , 51, 2368-71	5.8	31
96	Effect of rGO supported NiCu derived from layered double hydroxide on hydrogen sorption kinetics of MgH <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 789, 768-776	5.7	30
95	Synergistic effect of rGO supported Ni <sub>3</sub> Fe on hydrogen storage performance of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 16622-16633	6.7	30
94	Mechanism of the high activity of Mg <sub>2</sub> NiH <sub>4</sub> produced by hydriding combustion synthesis based on the analysis of phase composition, particle characteristic and grain size. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 2455-2460	6.7	30
93	Kinetic performance of hydrogen generation enhanced by AlCl <sub>3</sub> via hydrolysis of MgH <sub>2</sub> prepared by hydriding combustion synthesis. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 10232-10239	6.7	30
92	Hydrogen storage alloy of Mg <sub>2</sub> NiH <sub>4</sub> hydride produced by hydriding combustion synthesis from powder of mixture metal. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 308, 98-103	5.7	29
91	Hydrogen storage properties of Mg <sub>100</sub> Ni <sub>x</sub> system hydrogen storage materials prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 6350-6355	6.7	28
90	Hydrogen storage properties of Mg <sub>100</sub> Ni <sub>x</sub> (x=5, 11.3, 20, 25) composites prepared by hydriding combustion synthesis followed by mechanical milling (HCS+MM). <i>Intermetallics</i> , <b>2007</b> , 15, 1582-1588	3.5	28
89	Effect of synthesis temperature on the purity of product in hydriding combustion synthesis of Mg <sub>2</sub> NiH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 345, 189-195	5.7	28
88	Catalytic effect of in situ formed nano-Mg <sub>2</sub> Ni and Mg <sub>2</sub> Cu on the hydrogen storage properties of Mg-Y hydride composites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 782, 242-250	5.7	28
87	Controllable fabrication of Ni-based catalysts and their enhancement on desorption properties of MgH <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 715, 329-336	5.7	26
86	Structure and hydrogenation properties of nanocrystalline Mg <sub>2</sub> Ni prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 455, 197-202	5.7	25
85	Effects of two-dimension MXene Ti <sub>3</sub> C <sub>2</sub> on hydrogen storage performances of MgH <sub>2</sub> -LiAlH <sub>4</sub> composite. <i>Chemical Physics</i> , <b>2019</b> , 522, 178-187	2.3	23
84	Boosting low-temperature de/re-hydrogenation performances of MgH <sub>2</sub> with Pd-Ni bimetallic nanoparticles supported by mesoporous carbon. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 10777-10787	6.7	22
83	Hydriding and dehydriding properties of nanostructured Mg <sub>2</sub> Ni alloy prepared by the process of hydriding combustion synthesis and subsequent mechanical grinding. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 425, 235-238	5.7	22
82	Enhanced hydriding kinetics of Mg-10 at% Al composite by forming Al <sub>12</sub> Mg <sub>17</sub> during hydriding combustion synthesis. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 712, 44-49	5.7	21
81	Hydriding characteristics of Mg <sub>2</sub> Ni prepared by mechanical milling of the product of hydriding combustion synthesis. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 2450-2454	6.7	21

80	Synergistic hydrogen desorption of HCS MgH <sub>2</sub> /LiAlH <sub>4</sub> composite. <i>Energy</i> , <b>2013</b> , 55, 933-938	7.9	20
79	Alkaline poly(vinyl alcohol)/poly(acrylic acid) polymer electrolyte membrane for Ni-MH battery application. <i>Ionics</i> , <b>2015</b> , 21, 141-148	2.7	19
78	Superior hydrogenation properties in a Mg <sub>65</sub> Ce <sub>10</sub> Ni <sub>20</sub> Cu <sub>5</sub> nanoglass processed by melt-spinning followed by high-pressure torsion. <i>Scripta Materialia</i> , <b>2018</b> , 152, 137-140	5.6	19
77	Excellent catalytic activity of a two-dimensional Nb <sub>4</sub> C <sub>3</sub> T <sub>x</sub> (MXene) on hydrogen storage of MgH <sub>2</sub> . <i>Applied Surface Science</i> , <b>2019</b> , 493, 431-440	6.7	19
76	Catalytic mechanism of Nb <sub>2</sub> O <sub>5</sub> and NbF <sub>5</sub> on the dehydriding property of Mg <sub>95</sub> Ni <sub>5</sub> prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 7707-7713	6.7	19
75	Effect of hydrogen pressure on the combustion synthesis of Mg <sub>2</sub> NiH <sub>4</sub> . <i>Intermetallics</i> , <b>1999</b> , 7, 201-205	3.5	19
74	Characterization of hydrogen storage properties of Mg-30wt.% Ti <sub>1.0</sub> V <sub>1.1</sub> Mn <sub>0.9</sub> composite. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 424, 382-387	5.7	18
73	Hydriding and dehydriding behavior of the product in hydriding combustion synthesis of Mg <sub>2</sub> NiH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>1999</b> , 287, 98-103	5.7	18
72	Remarkable synergistic effects of Mg <sub>2</sub> NiH <sub>4</sub> and transition metal carbides (TiC, ZrC, WC) on enhancing the hydrogen storage properties of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 6765-6779	6.7	18
71	Effect of Few-Layer TiCT Supported Nano-Ni via Self-Assembly Reduction on Hydrogen Storage Performance of MgH. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 47684-47694	9.5	18
70	Structures and hydrogen storage properties of Mg <sub>95</sub> Ni <sub>5</sub> composite prepared by hydriding combustion synthesis and mechanical milling. <i>Materials Chemistry and Physics</i> , <b>2008</b> , 112, 218-222	4.4	17
69	Hydrogen storage properties of Mg <sub>95</sub> Ni <sub>5</sub> composites prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 520, 207-212	5.7	16
68	Superior hydrogen storage properties of Mg <sub>95</sub> Ni <sub>5</sub> /10wt.% nanosized Zr <sub>0.7</sub> Ti <sub>0.3</sub> Mn <sub>2</sub> /10wt.% MWCNT prepared by hydriding combustion synthesis followed by mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 17146-17152	6.7	16
67	Electrochemical hydrogen storage properties of Mg <sub>2</sub> Al <sub>x</sub> Ni (x=0, 0.3, 0.5, 0.7) prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 18140-18147	6.7	16
66	Electrochemical properties of Mg-based hydrogen storage alloys prepared by hydriding combustion synthesis and subsequent mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 2965-2969	6.7	16
65	Pressure-Composition-Temperature Properties of Hydriding Combustion-Synthesized Mg <sub>2</sub> NiH <sub>4</sub> . <i>Materials Transactions</i> , <b>2002</b> , 43, 1100-1104	1.3	16
64	Interface effect in sandwich like Ni/Ti <sub>3</sub> C <sub>2</sub> catalysts on hydrogen storage performance of MgH <sub>2</sub> . <i>Applied Surface Science</i> , <b>2021</b> , 564, 150302	6.7	16
63	Ionic conductivities of lithium borohydride-lithium nitride composites. <i>Solid State Ionics</i> , <b>2017</b> , 304, 150-155	1.5	14

62	Remarkable hydrogen storage properties at low temperature of MgNi composites prepared by hydriding combustion synthesis and mechanical milling. <i>RSC Advances</i> , <b>2015</b> , 5, 63202-63208	3.7	14
61	Structural and hydriding/dehydriding properties of MgAlNi-based composites. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 440-444	5.7	14
60	The hydrogen storage performance of a 4MgH <sub>2</sub> LiAlH <sub>4</sub> TiH <sub>2</sub> composite system. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 676, 557-564	5.7	14
59	Hydrogenation properties of five-component Mg <sub>60</sub> Ce <sub>10</sub> Ni <sub>20</sub> Cu <sub>5</sub> X <sub>5</sub> (X= Co, Zn) metallic glasses. <i>Intermetallics</i> , <b>2019</b> , 108, 94-99	3.5	13
58	Enhancing hydrogen storage properties of MgH <sub>2</sub> by core-shell CoNi@C. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 862, 158004	5.7	13
57	Electrochemical hydrogen storage properties of Mg <sub>100-x</sub> Ni <sub>x</sub> produced by hydriding combustion synthesis and mechanical milling. <i>Progress in Natural Science: Materials International</i> , <b>2017</b> , 27, 144-148	3.6	12
56	Synergistic hydrogen desorption properties of the 4LiAlH <sub>4</sub> + Mg <sub>2</sub> NiH <sub>4</sub> composite. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 697, 80-85	5.7	10
55	Effect of Al* generated in situ in hydriding on the dehydriding properties of Mg-Al alloys prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 750, 490-498	5.7	10
54	Hydriding combustion synthesis of MgAlNi <sub>5</sub> composites. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 458, 394-397	5.7	10
53	Catalytic effect of sandwich-like TiC/TiO(A)-C on hydrogen storage performance of MgH <sub>2</sub> . <i>Nanotechnology</i> , <b>2020</b> , 31, 115404	3.4	10
52	Effect of partial substitution of Ti for Al on the phase structure and electrochemical hydrogen storage properties of Mg <sub>3</sub> AlNi <sub>2</sub> alloy. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 746, 421-427	5.7	9
51	Phase transformation, kinetics and thermodynamics during the combustion synthesis of Mg <sub>2</sub> Al <sub>3</sub> alloy. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 628, 257-262	5.7	9
50	Combustion synthesis of Mg-based hydrogen storage alloy Mg <sub>17</sub> Al <sub>12</sub> . <i>Advanced Powder Technology</i> , <b>2013</b> , 24, 643-646	4.6	9
49	Enhanced hydrogen generation via hydrolysis of Mg/Mg <sub>2</sub> NiH <sub>4</sub> system. <i>Journal of Power Sources</i> , <b>2020</b> , 476, 228499	8.9	9
48	Improved hydrogen storage properties of Ti-doped Mg <sub>95</sub> Ni <sub>5</sub> powder produced by hydriding combustion synthesis. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 967-972	2.5	8
47	Ultrahigh rate capability and long cycling stability of dual-ion batteries enabled by TiO microspheres with abundant oxygen vacancies. <i>Chemical Communications</i> , <b>2020</b> , 56, 8039-8042	5.8	8
46	Improved dehydriding property of polyvinylpyrrolidone coated Mg-Ni hydrogen storage nano-composite prepared by hydriding combustion synthesis and wet mechanical milling. <i>Progress in Natural Science: Materials International</i> , <b>2018</b> , 28, 7-14	3.6	8
45	Study on xLiBH <sub>4</sub> -NaBH <sub>4</sub> (x=1.6, 2.3, and 4) composites with enhanced lithium ionic conductivity. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 936-941	5.7	8

44	Electrochemical properties of Mg-based hydrogen storage materials modified with carbonaceous materials prepared by hydriding combustion synthesis and subsequent mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 9653-9660	6.7	8
43	Cobalt ion intercalated MnO <sub>2</sub> /C as air cathode catalyst for rechargeable aluminum-air battery. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 824, 153950	5.7	7
42	Effect of pH on the structural characteristics of in situ synthesized Ni-incorporated SBA-15 magnetic composites. <i>Research on Chemical Intermediates</i> , <b>2014</b> , 40, 385-397	2.8	7
41	Effect of SiC on hydrogen storage properties of Mg <sub>95</sub> Ni <sub>5</sub> prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 539, 215-220	5.7	7
40	Nano-inducement of Ni for low-temperature dominant dehydrogenation of Mg-Al alloy prepared by HCS+MM. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 153020	5.7	7
39	Controllable hydrogen generation behavior by hydrolysis of MgH <sub>2</sub> -based materials. <i>Journal of Power Sources</i> , <b>2021</b> , 494, 229726	8.9	7
38	The ionic conductivities, stabilities and ionic mobilities of xLiBH <sub>4</sub> -Li <sub>2</sub> NH (x=1, 2, 4) composites as fast ion conductor. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 2894-2901	5.7	6
37	Magnesium Nanoparticles With Pd Decoration for Hydrogen Storage. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 949	5	6
36	The electrochemical hydrogen storage properties of Mg <sub>67</sub> PdxCo <sub>33</sub> (x=1, 3, 5, 7) electrodes with BCC phase. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 662, 396-403	5.7	6
35	Hydrogen storage performances and reaction mechanism of non-stoichiometric compound Li <sub>1.3</sub> Na <sub>1.7</sub> AlH <sub>6</sub> doped with Ti <sub>3</sub> C <sub>2</sub> . <i>Chemical Physics</i> , <b>2018</b> , 513, 135-140	2.3	6
34	Improved Hydrogen Absorption/Desorption Properties of MgH <sub>2</sub> by Co Catalyzing of YH <sub>2</sub> and Co@C. <i>ChemistrySelect</i> , <b>2019</b> , 4, 7709-7714	1.8	6
33	The lithium ionic conductivity of 2LiBH <sub>4</sub> -MgH <sub>2</sub> composite as solid electrolyte. <i>Inorganic Chemistry Communication</i> , <b>2017</b> , 83, 62-65	3.1	6
32	Effects of VF <sub>4</sub> on the hydriding cycling at 373 K and dehydriding of Mg <sub>99</sub> Ni prepared by hydriding combustion synthesis and mechanical milling (HCS+MM). <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 698, 913-920	5.7	5
31	Surface modification of Mg <sub>3</sub> MnNi <sub>2</sub> hydrogen storage electrode alloy with polyaniline. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 14220-14226	6.7	5
30	Synergistically tuned hydrogen storage thermodynamics and kinetics of Mg-Al alloys by Cu formed in situ mechanochemically. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 370-377	5.7	5
29	LiBH <sub>4</sub> -NaX (X=Cl, I) composites with enhanced lithium ionic conductivity. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 307-313	5.7	5
28	Catalytic Effect of Multi-Wall Carbon Nanotubes Supported Nickel on Hydrogen Storage Properties of Mg <sub>99</sub> Ni Prepared by Hydriding Combustion Synthesis. <i>Materials Transactions</i> , <b>2014</b> , 55, 1149-1155	1.3	5
27	Direct synthesis of Nd <sup>3+</sup> doped mesoporous TiO <sub>2</sub> and investigation of its photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 64, 564-570	2.3	5

26	Hydrogen storage properties of the Zintl phase alloy SrAl <sub>2</sub> doped with TiF <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 492, 277-281	5-7	5
25	Effect of Si substitution for Al on the structural and hydrogenation properties of the Zintl phase alloy SrAl <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 485, 439-443	5-7	5
24	Synergistic Catalytic Mechanism between Ni and Carbon Aerogel for Dehydrogenation of Mg-Based Hydrides. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 10232-10240	4-1	5
23	Ternary LiBH <sub>4</sub> -NaBH <sub>4</sub> -MgH <sub>2</sub> composite as fast ionic conductor. <i>Solid State Ionics</i> , <b>2018</b> , 324, 109-113	3-3	4
22	Structural and hydrogenation properties of SrAl <sub>2</sub> Ni <sub>x</sub> alloys. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 7498-7504	6-7	4
21	Influence of Sn, Cd, and Si addition on the electrochemical performance of Al <sub>2</sub> Ni <sub>3</sub> sacrificial anodes. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2020</b> , 71, 585-592	1-6	4
20	Vacancy-Mediated Hydrogen Spillover Improving Hydrogen Storage Properties and Air Stability of Metal Hydrides. <i>Small</i> , <b>2021</b> , 17, e2100852	11	4
19	Enhanced dehydrogenation properties of LiAlH <sub>4</sub> /Mg <sub>2</sub> NiH <sub>4</sub> nanocomposites via doping Ti-based catalysts. <i>Materials Research Express</i> , <b>2019</b> , 6, 075067	1-7	3
18	Electrochemical properties of Mg <sub>3</sub> MnNi <sub>2</sub> -x% polymethyl methacrylate-multiwalled carbon nanotubes (PMMA-MWCNTs) (x = 25, 50, 75, 100). <i>Journal of Materials Science</i> , <b>2018</b> , 53, 6033-6041	4-3	3
17	Ultra-fine TiO <sub>2</sub> nanoparticles supported on three-dimensionally ordered macroporous structure for improving the hydrogen storage performance of MgH <sub>2</sub> . <i>Applied Surface Science</i> , <b>2022</b> , 585, 152561	6-7	3
16	One-step self-assembly of TiO <sub>2</sub> /MXene heterostructures for improving the hydrogen storage performance of magnesium hydride. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 895, 162635	5-7	3
15	Synergistic effect of TiH <sub>2</sub> and air exposure on enhancing hydrogen storage performance of Mg <sub>2</sub> NiH <sub>4</sub> . <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134489	14-7	3
14	Purity of MgH <sub>2</sub> Improved by the Process of Pre-milling Assisted Hydriding of Mg Powder under a Hydrogen Pressure of 0.5 MPa. <i>Russian Journal of Physical Chemistry A</i> , <b>2019</b> , 93, 665-673	0-7	2
13	Electrochemical hydrogen storage properties of Mg Al Mn Ni quaternary alloys. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 8384-8391	6-7	2
12	Effect of surface oxidation on the hydriding and dehydriding of Mg <sub>2</sub> Ni alloy produced by hydriding combustion synthesis. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 9725-9729	4-3	2
11	High ionic conductivities of composites of Li <sub>4</sub> (BH <sub>4</sub> ) <sub>3</sub> I with two-dimensional MoS <sub>2</sub> at room temperature. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 815, 152353	5-7	2
10	Preparations and de/re-hydrogenation properties of Li <sub>x</sub> Na <sub>3-x</sub> AlH <sub>6</sub> (x=0.9-1.3) non-stoichiometric compounds. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 648-654	5-7	1
9	Enhanced hydrogen sorption kinetics of MgH <sub>2</sub> catalyzed by a novel layered Ni/Al <sub>2</sub> O <sub>3</sub> hybrid. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 162682	5-7	1

8	Catalysis derived from flower-like Ni MOF towards the hydrogen storage performance of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 9346-9356	6.7	o
7	Air-stable magnesium nickel hydride with autocatalytic and self-protective effect for reversible hydrogen storage. <i>Nano Research</i> , 1	10	o
6	An exciting synergistic effect: realizing large-sized MgH <sub>2</sub> dehydrogenation at lowered temperatures by locally assembling a heterophase composite. <i>Materials Today Energy</i> , <b>2019</b> , 14, 100345	7	o
5	Electrochemical Performance of Al-1Zn-0.1In-0.1Sn-0.5Mg-xMn (x = 0, 0.1, 0.2, 0.3) Alloys Used as the Anode of an Al-Air Battery. <i>Processes</i> , <b>2022</b> , 10, 420	2.9	o
4	Significantly improved hydrogen storage properties of Mg <sub>90</sub> Al <sub>10</sub> catalyzed by TiF <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 908, 164581	5.7	o
3	Mechanism of improving hydrogenation of Mg by in-situ formation of Al* in hydriding combustion synthesis. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 911, 164969	5.7	o
2	Catalytic effect of micro/nano-Ni on dehydrogenation performance of Mg <sub>90</sub> Al <sub>10</sub> during air exposure. <i>Applied Surface Science</i> , <b>2022</b> , 595, 153569	6.7	o
1	Supra Hydrolytic Catalysis of Ni Fe/rGO for Hydrogen Generation.. <i>Advanced Science</i> , <b>2022</b> , e2201428	13.6	