

Liquan Li

List of Publications by Year in descending order

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119
papers

2,982
citations

126708

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119
all docs

119
docs citations

119
times ranked

1326
citing authors

#	ARTICLE	IF	CITATIONS
1	State of the art multi-strategy improvement of Mg-based hydrides for hydrogen storage. Journal of Alloys and Compounds, 2019, 782, 796-823.	2.8	122
2	Metal Hydride Nanoparticles with Ultrahigh Structural Stability and Hydrogen Storage Activity Derived from Microencapsulated Nanoconfinement. Advanced Materials, 2017, 29, 1700760.	11.1	115
3	Nickel-decorated graphene nanoplates for enhanced H ₂ sorption properties of magnesium hydride at moderate temperatures. Journal of Materials Chemistry A, 2016, 4, 2560-2570.	5.2	98
4	Facile Synthesis of Carbon Supported Nano-Ni Particles with Superior Catalytic Effect on Hydrogen Storage Kinetics of MgH ₂ . ACS Applied Energy Materials, 2018, 1, 1158-1165.	2.5	75
5	Excellent catalytic activity of a two-dimensional Nb ₄ C ₃ T _x (MXene) on hydrogen storage of MgH ₂ . Applied Surface Science, 2019, 493, 431-440.	3.1	73
6	Remarkable Synergistic Catalysis of Ni-Doped Ultrafine TiO ₂ on Hydrogen Sorption Kinetics of MgH ₂ . ACS Applied Materials & Interfaces, 2018, 10, 24975-24980.	4.0	71
7	Kinetic performance of hydrogen generation enhanced by AlCl ₃ via hydrolysis of MgH ₂ prepared by hydriding combustion synthesis. International Journal of Hydrogen Energy, 2018, 43, 10232-10239.	3.8	57
8	Crystal-facet-dependent catalysis of anatase TiO ₂ on hydrogen storage of MgH ₂ . Journal of Alloys and Compounds, 2020, 822, 153553.	2.8	57
9	Synergistic effect of rGO supported Ni ₃ Fe on hydrogen storage performance of MgH ₂ . International Journal of Hydrogen Energy, 2020, 45, 16622-16633.	3.8	56
10	Efficient catalysis by MgCl ₂ in hydrogen generation via hydrolysis of Mg-based hydride prepared by hydriding combustion synthesis. Chemical Communications, 2012, 48, 5509.	2.2	54
11	Interface effect in sandwich like Ni/Ti ₃ C ₂ catalysts on hydrogen storage performance of MgH ₂ . Applied Surface Science, 2021, 564, 150302.	3.1	54
12	Effect of Few-Layer Ti ₃ C ₂ T _x Supported Nano-Ni via Self-Assembly Reduction on Hydrogen Storage Performance of MgH ₂ . ACS Applied Materials & Interfaces, 2020, 12, 47684-47694.	4.0	53
13	Effect of multi-wall carbon nanotubes supported nano-nickel and TiF ₃ addition on hydrogen storage properties of magnesium hydride. Journal of Alloys and Compounds, 2016, 669, 8-18.	2.8	52
14	Enhancing hydrogen storage performances of MgH ₂ by Ni nano-particles over mesoporous carbon CMK-3. Nanotechnology, 2018, 29, 265705.	1.3	52
15	Reaction mechanism of hydriding combustion synthesis of Mg ₂ NiH ₄ . Intermetallics, 1999, 7, 671-677.	1.8	49
16	Controlling nanocrystallization and hydrogen storage property of Mg-based amorphous alloy via a gas-solid reaction. Journal of Alloys and Compounds, 2016, 685, 272-277.	2.8	49
17	Catalytic effect of in situ formed nano-Mg ₂ Ni and Mg ₂ Cu on the hydrogen storage properties of Mg-Y hydride composites. Journal of Alloys and Compounds, 2019, 782, 242-250.	2.8	49
18	Effect of La/Ni ratio on hydrogen storage properties of Mg-LaNi system prepared by hydriding combustion synthesis followed by mechanical milling. International Journal of Hydrogen Energy, 2008, 33, 2970-2974.	3.8	48

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19	Effect of rGO supported NiCu derived from layered double hydroxide on hydrogen sorption kinetics of MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 789, 768-776.	2.8	47
20	Effect of multi-wall carbon nanotubes supported palladium addition on hydrogen storage properties of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10184-10194.	3.8	46
21	Hydrogen storage properties of Mg-Ni-Cu prepared by hydriding combustion synthesis and mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2654-2660.	3.8	45
22	Effects of two-dimension MXene Ti ₃ C ₂ on hydrogen storage performances of MgH ₂ -LiAlH ₄ composite. <i>Chemical Physics</i> , 2019, 522, 178-187.	0.9	45
23	Significantly improved electrochemical hydrogen storage properties of magnesium nickel hydride modified with nano-nickel. <i>Journal of Power Sources</i> , 2015, 280, 132-140.	4.0	43
24	Enhanced electrochemical hydrogen storage properties of Mg ₂ NiH ₄ by coating with nano-nickel. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 13949-13956.	3.8	43
25	Controllable fabrication of Ni-based catalysts and their enhancement on desorption properties of MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2017, 715, 329-336.	2.8	43
26	Catalysis derived from flower-like Ni MOF towards the hydrogen storage performance of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 9346-9356.	3.8	41
27	Structural and electrochemical hydrogen storage properties of Mg ₂ Ni-based alloys. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5309-5314.	2.8	40
28	Ultra-fine TiO ₂ nanoparticles supported on three-dimensionally ordered macroporous structure for improving the hydrogen storage performance of MgH ₂ . <i>Applied Surface Science</i> , 2022, 585, 152561.	3.1	39
29	Hydrogen storage alloy of Mg ₂ NiH ₄ hydride produced by hydriding combustion synthesis from powder of mixture metal. <i>Journal of Alloys and Compounds</i> , 2000, 308, 98-103.	2.8	38
30	Remarkable synergistic effects of Mg ₂ NiH ₄ and transition metal carbides (TiC, ZrC, WC) on enhancing the hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 6765-6779.	3.8	38
31	Hydrogen storage properties of Mg-Ni-C system hydrogen storage materials prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6350-6355.	3.8	34
32	Boosting low-temperature de/re-hydrogenation performances of MgH ₂ with Pd-Ni bimetallic nanoparticles supported by mesoporous carbon. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10777-10787.	3.8	34
33	Excellent catalytic effects of multi-walled carbon nanotube supported titania on hydrogen storage of a Mg-Ni alloy. <i>Chemical Communications</i> , 2015, 51, 2368-2371.	2.2	33
34	Enhancing hydrogen storage properties of MgH ₂ by core-shell CoNi@C. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158004.	2.8	33
35	Hydrogen storage properties of Mg _{100-x} Ni _x (x=5, 11.3, 20, 25) composites prepared by hydriding combustion synthesis followed by mechanical milling (HCS+MM). <i>Intermetallics</i> , 2007, 15, 1582-1588.	1.8	32
36	Mechanism of the high activity of Mg ₂ NiH ₄ Mg ₂ NiH ₄ produced by hydriding combustion synthesis based on the analysis of phase composition, particle characteristic and grain size. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2455-2460.	3.8	32

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37	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> , 2014, 50, 6641-6644.	2.2	32
38	Superior hydrogenation properties in a Mg ₆₅ Ce ₁₀ Ni ₂₀ Cu ₅ nanoglass processed by melt-spinning followed by high-pressure torsion. <i>Scripta Materialia</i> , 2018, 152, 137-140.	2.6	32
39	Effect of synthesis temperature on the purity of product in hydriding combustion synthesis of Mg ₂ NiH ₄ . <i>Journal of Alloys and Compounds</i> , 2002, 345, 189-195.	2.8	31
40	Structure and hydrogenation properties of nanocrystalline Mg ₂ Ni prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , 2008, 455, 197-202.	2.8	30
41	Controllable hydrogen generation behavior by hydrolysis of MgH ₂ -based materials. <i>Journal of Power Sources</i> , 2021, 494, 229726.	4.0	29
42	Hydriding and dehydriding properties of nanostructured Mg ₂ Ni alloy prepared by the process of hydriding combustion synthesis and subsequent mechanical grinding. <i>Journal of Alloys and Compounds</i> , 2006, 425, 235-238.	2.8	28
43	Alkaline poly(vinyl alcohol)/poly(acrylic acid) polymer electrolyte membrane for Ni-MH battery application. <i>Ionics</i> , 2015, 21, 141-148.	1.2	27
44	Enhanced hydrogen generation via hydrolysis of Mg-Mg ₂ NiH ₄ system. <i>Journal of Power Sources</i> , 2020, 476, 228499.	4.0	27
45	Synergistic hydrogen desorption of HCS MgH ₂ -AlH ₃ composite. <i>Energy</i> , 2013, 55, 933-938.	4.5	25
46	Catalytic effect of sandwich-like Ti ₃ C ₂ /TiO ₂ (A)-C on hydrogen storage performance of MgH ₂ . <i>Nanotechnology</i> , 2020, 31, 115404.	1.3	25
47	Enhanced hydriding kinetics of Mg-10at% Al composite by forming Al ₁₂ Mg ₁₇ during hydriding combustion synthesis. <i>Journal of Alloys and Compounds</i> , 2017, 712, 44-49.	2.8	24
48	Hydriding characteristics of Mg ₂ NiMg ₂ Ni prepared by mechanical milling of the product of hydriding combustion synthesis. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2450-2454.	3.8	23
49	Effect of hydrogen pressure on the combustion synthesis of Mg ₂ NiH ₄ . <i>Intermetallics</i> , 1999, 7, 201-205.	1.8	22
50	Hydriding and dehydriding behavior of the product in hydriding combustion synthesis of Mg ₂ NiH ₄ . <i>Journal of Alloys and Compounds</i> , 1999, 287, 98-103.	2.8	22
51	Characterization of hydrogen storage properties of Mg-30wt.% Ti _{1.0} V _{1.1} Mn _{0.9} composite. <i>Journal of Alloys and Compounds</i> , 2006, 424, 382-387.	2.8	21
52	Hydrogenation properties of five-component Mg ₆₀ Ce ₁₀ Ni ₂₀ Cu ₅ X ₅ (X= Co, Zn) metallic glasses. <i>Intermetallics</i> , 2019, 108, 94-99.	1.8	21
53	Catalytic mechanism of Nb ₂ O ₅ and NbF ₅ on the dehydriding property of Mg ₉₅ Ni ₅ prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7707-7713.	3.8	20
54	Vacancy-Mediated Hydrogen Spillover Improving Hydrogen Storage Properties and Air Stability of Metal Hydrides. <i>Small</i> , 2021, 17, e2100852.	5.2	20

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55	Pressure-Composition-Temperature Properties of Hydriding Combustion-Synthesized Mg ₂ NiH ₄ . Materials Transactions, 2002, 43, 1100-1104.	0.4	19
56	Hydrogen storage properties of Mg-Ni-Fe composites prepared by hydriding combustion synthesis and mechanical milling. Journal of Alloys and Compounds, 2012, 520, 207-212.	2.8	19
57	Cobalt ion intercalated MnO ₂ /C as air cathode catalyst for rechargeable aluminum-air battery. Journal of Alloys and Compounds, 2020, 824, 153950.	2.8	19
58	Structures and hydrogen storage properties of Mg ₉₅ Ni ₅ composite prepared by hydriding combustion synthesis and mechanical milling. Materials Chemistry and Physics, 2008, 112, 218-222.	2.0	18
59	Superior hydrogen storage properties of Mg ₉₅ Ni ₅ +10wt.% nanosized Zr _{0.7} Ti _{0.3} Mn ₂ +3wt.% MWCNT prepared by hydriding combustion synthesis followed by mechanical milling (HCS+MM). International Journal of Hydrogen Energy, 2012, 37, 17146-17152.	3.8	18
60	Ionic conductivities of lithium borohydride-lithium nitride composites. Solid State Ionics, 2017, 304, 150-155.	1.3	18
61	Air-stable magnesium nickel hydride with autocatalytic and self-protective effect for reversible hydrogen storage. Nano Research, 2022, 15, 2130-2137.	5.8	18
62	Synergistic effect of TiH ₂ and air exposure on enhancing hydrogen storage performance of Mg ₂ NiH ₄ . Chemical Engineering Journal, 2022, 433, 134489.	6.6	18
63	Electrochemical properties of Mg-based hydrogen storage alloys prepared by hydriding combustion synthesis and subsequent mechanical milling (HCS+MM). International Journal of Hydrogen Energy, 2008, 33, 2965-2969.	3.8	17
64	Magnesium Nanoparticles With Pd Decoration for Hydrogen Storage. Frontiers in Chemistry, 2019, 7, 949.	1.8	17
65	Electrochemical hydrogen storage properties of Mg ₂ -xAlxNi (x=0, 0.3, 0.5, 0.7) prepared by hydriding combustion synthesis and mechanical milling. International Journal of Hydrogen Energy, 2012, 37, 18140-18147.	3.8	16
66	Remarkable hydrogen storage properties at low temperature of Mg-Ni composites prepared by hydriding combustion synthesis and mechanical milling. RSC Advances, 2015, 5, 63202-63208.	1.7	16
67	Phase transformation, kinetics and thermodynamics during the combustion synthesis of Mg ₂ Al ₃ alloy. Journal of Alloys and Compounds, 2015, 628, 257-262.	2.8	15
68	The hydrogen storage performance of a 4MgH ₂ LiAlH ₄ TiH ₂ composite system. Journal of Alloys and Compounds, 2016, 676, 557-564.	2.8	15
69	Structural and hydriding/dehydriding properties of Mg-La-Ni-based composites. Journal of Alloys and Compounds, 2009, 477, 440-444.	2.8	14
70	Effect of partial substitution of Ti for Al on the phase structure and electrochemical hydrogen storage properties of Mg ₃ AlNi ₂ alloy. Journal of Alloys and Compounds, 2018, 746, 421-427.	2.8	14
71	Electrochemical hydrogen storage properties of Mg _{100-x} Ni _x produced by hydriding combustion synthesis and mechanical milling. Progress in Natural Science: Materials International, 2017, 27, 144-148.	1.8	13
72	Study on xLiBH ₄ -NaBH ₄ (x=1.6, 2.3, and 4) composites with enhanced lithium ionic conductivity. Journal of Alloys and Compounds, 2017, 729, 936-941.	2.8	13

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73	Improved dehydrating 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> , 2018, 28, 7-14.	1.8	13
74	Improved Hydrogen Absorption/Desorption Properties of MgH_{2} by Co Catalyzing of YH_{2} and Co@C. <i>ChemistrySelect</i> , 2019, 4, 7709-7714.	0.7	13
75	Ultrahigh rate capability and long cycling stability of dual-ion batteries enabled by TiO_{2} microspheres with abundant oxygen vacancies. <i>Chemical Communications</i> , 2020, 56, 8039-8042.	2.2	13
76	Nano-inducement of Ni for low-temperature dominant dehydrogenation of Mg-Al alloy prepared by HCS+MM. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153020.	2.8	12
77	One-step self-assembly of TiO_{2} /MXene heterostructures for improving the hydrogen storage performance of magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162635.	2.8	12
78	Hydriding combustion synthesis of Mg-CaNi ₅ composites. <i>Journal of Alloys and Compounds</i> , 2008, 458, 394-397.	2.8	11
79	Synergistic hydrogen desorption properties of the $4LiAlH_{4}+Mg_{2}NiH_{4}$ composite. <i>Journal of Alloys and Compounds</i> , 2017, 697, 80-85.	2.8	11
80	Effect of Al* generated in situ in hydriding on the dehydrating properties of Mg-Al alloys prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , 2018, 750, 490-498.	2.8	11
81	$LiBH_{4}$ -NaX (X=Cl, I) composites with enhanced lithium ionic conductivity. <i>Journal of Alloys and Compounds</i> , 2018, 764, 307-313.	2.8	11
82	Combustion synthesis of Mg-based hydrogen storage alloy $Mg_{17}Al_{12}$. <i>Advanced Powder Technology</i> , 2013, 24, 643-646.	2.0	10
83	Improved hydrogen storage properties of Ti-doped $Mg_{95}Ni_{5}$ powder produced by hydriding combustion synthesis. <i>Journal of Materials Research</i> , 2015, 30, 967-972.	1.2	10
84	Synergistically tuned hydrogen storage thermodynamics and kinetics of Mg-Al alloys by Cu formed in situ mechanochemically. <i>Journal of Alloys and Compounds</i> , 2019, 806, 370-377.	2.8	10
85	Facet-dependent catalytic activity of two-dimensional $Ti_{3}C_{2}Tx$ MXene on hydrogen storage performance of MgH_{2} . <i>Journal of Magnesium and Alloys</i> , 2023, 11, 3724-3735.	5.5	10
86	Enhanced hydrogen storage performance of magnesium hydride with incompletely etched $Ti_{3}C_{2}Tx$: The nonnegligible role of Al. <i>Applied Surface Science</i> , 2022, 600, 154140.	3.1	10
87	Synergistic Catalytic Mechanism between Ni and Carbon Aerogel for Dehydrogenation of Mg-Based Hydrides. <i>Energy & Fuels</i> , 2020, 34, 10232-10240.	2.5	9
88	Enhanced hydrogen sorption kinetics of MgH_{2} catalyzed by a novel layered Ni/ $Al_{2}O_{3}$ hybrid. <i>Journal of Alloys and Compounds</i> , 2022, 895, 162682.	2.8	9
89	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> , 2010, 35, 9653-9660.	3.8	8
90	Effect of SiC on hydrogen storage properties of $Mg_{95}Ni_{5}$ prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , 2012, 539, 215-220.	2.8	8

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91	The ionic conductivities, stabilities and ionic mobilities of $x\text{LiBH}_4\text{-Li}_2\text{NH}$ ($x=1, 2, 4$) composites as fast ion conductor. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2894-2901.	2.8	8
92	The lithium ionic conductivity of $2\text{LiBH}_4\text{-MgH}_2$ composite as solid electrolyte. <i>Inorganic Chemistry Communication</i> , 2017, 83, 62-65.	1.8	8
93	Influence of Sn, Cd, and Si addition on the electrochemical performance of Al-Zn-In sacrificial anodes. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020, 71, 585-592.	0.8	8
94	Effect of pH on the structural characteristics of in situ synthesized Ni-incorporated SBA-15 magnetic composites. <i>Research on Chemical Intermediates</i> , 2014, 40, 385-397.	1.3	7
95	Surface modification of Mg_3MnNi_2 hydrogen storage electrode alloy with polyaniline. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14220-14226.	3.8	7
96	Hydrogen storage performances and reaction mechanism of non-stoichiometric compound $\text{Li}_{1.3}\text{Na}_{1.7}\text{AlH}_6$ doped with Ti_3C_2 . <i>Chemical Physics</i> , 2018, 513, 135-140.	0.9	7
97	Enhanced dehydrogenation properties of $\text{LiAlH}_4\text{-Mg}_2\text{NiH}_4$ nanocomposites via doping Ti-based catalysts. <i>Materials Research Express</i> , 2019, 6, 075067.	0.8	7
98	Effect of Si substitution for Al on the structural and hydrogenation properties of the Zintl phase alloy SrAl_2 . <i>Journal of Alloys and Compounds</i> , 2009, 485, 439-443.	2.8	6
99	The electrochemical hydrogen storage properties of $\text{Mg}_{67}\text{-Pd Co}_{33}$ ($x=1, 3, 5, 7$) electrodes with BCC phase. <i>Journal of Alloys and Compounds</i> , 2016, 662, 396-403.	2.8	6
100	Effects of VF 4 on the hydriding cycling at 373 K and dehydriding of Mg_{99}Ni prepared by hydriding combustion synthesis and mechanical milling (HCS+MM). <i>Journal of Alloys and Compounds</i> , 2017, 698, 913-920.	2.8	6
101	High ionic conductivities of composites of $\text{Li}_4(\text{BH}_4)_3\text{I}$ with two-dimensional MoS_2 at room temperature. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152353.	2.8	6
102	Catalytic effect of micro/nano-Ni on dehydrogenation performance of $\text{Mg}_{90}\text{Al}_{10}$ during air exposure. <i>Applied Surface Science</i> , 2022, 595, 153569.	3.1	6
103	Hydrogen storage properties of the Zintl phase alloy SrAl_2 doped with TiF_3 . <i>Journal of Alloys and Compounds</i> , 2010, 492, 277-281.	2.8	5
104	Direct synthesis of Nd^{3+} doped mesoporous TiO_2 and investigation of its photocatalytic performance. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 564-570.	1.1	5
105	Catalytic Effect of Multi-Wall Carbon Nanotubes Supported Nickel on Hydrogen Storage Properties of Mg_{99}Ni Prepared by Hydriding Combustion Synthesis. <i>Materials Transactions</i> , 2014, 55, 1149-1155.	0.4	5
106	Ternary $\text{LiBH}_4\text{-NaBH}_4\text{-MgH}_2$ composite as fast ionic conductor. <i>Solid State Ionics</i> , 2018, 324, 109-113.	1.3	5
107	Growth restriction of Co_3O_4 nanoparticles by Li-MnO_2 nanorods as air cathode catalyst for rechargeable aluminum-air battery. <i>International Journal of Energy Research</i> , 2022, 46, 11174-11184.	2.2	5
108	Significantly improved hydrogen storage properties of $\text{Mg}_{90}\text{Al}_{10}$ catalyzed by TiF_3 . <i>Journal of Alloys and Compounds</i> , 2022, 908, 164581.	2.8	5

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109	Structural and hydrogenation properties of SrAl ₂ -xNi alloys. International Journal of Hydrogen Energy, 2008, 33, 7498-7504.	3.8	4
110	Electrochemical properties of Mg ₃ MnNi ₂ -x% polymethyl methacrylate-multiwalled carbon nanotubes (PMMA-MWCNTs) (x=25, 50, 75, 100). Journal of Materials Science, 2018, 53, 6033-6041.	1.7	4
111	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. Processes, 2022, 10, 420.	1.3	4
112	Improvement effect of reversible solid solutions Mg ₂ Ni(Cu)/ Mg ₂ Ni(Cu)H ₄ on hydrogen storage performance of MgH ₂ . Journal of Magnesium and Alloys, 2024, 12, 197-208.	5.5	4
113	Purity of MgH ₂ Improved by the Process of Pre-milling Assisted Hydriding of Mg Powder under a Hydrogen Pressure of 0.5 MPa. Russian Journal of Physical Chemistry A, 2019, 93, 665-673.	0.1	3
114	Electrochemical hydrogen storage properties of Mg-Al-Mn-Ni quaternary alloys. International Journal of Hydrogen Energy, 2019, 44, 8384-8391.	3.8	3
115	Mechanism of improving hydrogenation of Mg by in-situ formation of Al* in hydriding combustion synthesis. Journal of Alloys and Compounds, 2022, 911, 164969.	2.8	3
116	Supra Hydrolytic Catalysis of Ni ₃ Fe/rGO for Hydrogen Generation. Advanced Science, 2022, 9, e2201428.	5.6	3
117	Effect of surface oxidation on the hydriding and dehydriding of Mg ₂ Ni alloy produced by hydriding combustion synthesis. Journal of Materials Science, 2007, 42, 9725-9729.	1.7	2
118	An exciting synergistic effect: realizing large-sized MgH ₂ dehydrogenation at lowered temperatures by locally assembling a heterophase composite. Materials Today Energy, 2019, 14, 100345.	2.5	2
119	Preparations and de/re-hydrogenation properties of Li _x Na _{3-x} AlH ₆ (x=0.9~1.3) non-stoichiometric compounds. Journal of Alloys and Compounds, 2017, 729, 648-654.	2.8	1