Yang-Huan Zhang

List of Publications by Year
in descending order

223	3,377	201575	289141
papers	citations	27 h-index	40 g-index

224	224	224	976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development and Application of Hydrogen Storage. Journal of Iron and Steel Research International, 2015, 22, 757-770.	1.4	108
2	Evolution of the phase structure and hydrogen storage thermodynamics and kinetics of Mg 88 Y 12 binary alloy. International Journal of Hydrogen Energy, 2016, 41, 2689-2699.	3.8	84
3	Structure, hydrogen storage kinetics and thermodynamics of Mg-base Sm5Mg41 alloy. International Journal of Hydrogen Energy, 2016, 41, 5994-6003.	3.8	75
4	Improved hydrogen absorption and desorption kinetics of magnesium-based alloy via addition of yttrium. Journal of Power Sources, 2018, 378, 636-645.	4.0	70
5	Phase transformation, thermodynamics and kinetics property of Mg90Ce5RE5 (RE = La, Ce, Nd) hydrogen storage alloys. Journal of Materials Science and Technology, 2020, 51, 84-93.	5.6	63
6	Catalytic effect of in situ formed Mg2Ni and REH (RE: Ce and Y) on thermodynamics and kinetics of Mg-RE-Ni hydrogen storage alloy. Renewable Energy, 2020, 157, 828-839.	4.3	58
7	Improved hydrogen storage kinetics and thermodynamics of RE-Mg-based alloy by co-doping Ceâ€“Y. International Journal of Hydrogen Energy, 2019, 44, 16765-16776.	3.8	56
8	Cycle stabilities of the La0.7Mg0.3Ni2.55â^'xCo0.45Mx (M=Fe, Mn, Al; x=0, 0.1) electrode alloys prepared by casting and rapid quenching. Journal of Alloys and Compounds, 2008, 458, 340-345.	2.8	54
9	An investigation on electrochemical and gaseous hydrogen storage performances of as-cast La1â^'xPrxMgNi3.6Co0.4 (xÂ=Â0â€“0.4) alloys. International Journal of Hydrogen Energy, 2014, 39, 14282-14287.	3.8	49
10	Effects of adding over-stoichiometrical Ti and substituting Fe with Mn partly on structure and hydrogen storage performances of TiFe alloy. Renewable Energy, 2019, 135, 1481-1498.	4.3	48
11	Research progress in Mg-based hydrogen storage alloys. Rare Metals, 2014, 33, 499-510.	3.6	45
12	Hydrogen storage properties of LaMgNi 3.6 M 0.4 (M = Ni, Co, Mn, Cu, Al) alloys. Journal of Alloys and Compounds, 2014, 617, 29-33.	2.8	44
13	Effect of elemental substitution on the structure and hydrogen storage properties of LaMgNi4 alloy. Materials and Design, 2016, 93, 46-52.	3.3	43
14	Investigation on structures and electrochemical performances of the as-cast and -quenched La0.7Mg0.3Co0.45Ni2.55-xFex(x=0â€“0.4) electrode alloys. International Journal of Hydrogen Energy, 2007, 32, 4627-4634.	3.8	41
15	Effect of substituting Co with Fe on the cycle stabilities of the as-cast and quenched AB5-type hydrogen storage alloys. Journal of Power Sources, 2005, 148, 105-111.	4.0	40
16	Progress of graphene and loaded transition metals on Mg-based hydrogen storage alloys. International Journal of Hydrogen Energy, 2021, 46, 33468-33485.	3.8	40
17	Influence of Fe@C composite catalyst on the hydrogen storage properties of Mgâ€“Ceâ€“Y based alloy. Renewable Energy, 2020, 162, 2153-2165.	4.3	36
18	An investigation on electrochemical hydrogen storage performances of the as-cast and -annealed La0.8â^'xSmxMg0.2Ni3.35Al0.1Si0.05 (x=0â€“0.4) alloys. Journal of Alloys and Compounds, 2012, 537, 175-182.	2.8	35

#	ARTICLE	IF	CITATIONS
19	Electrochemical performances of the as-melt La0.75â˜'xMxMg0.25Ni3.2Co0.2Al0.1 (MÂ=ÂPr, Zr; xÂ=Â0, 0.2) alloys applied to Ni/metal hydride (MH) battery. International Journal of Hydrogen Energy, 2012, 37, 14590-14597.	3.8	35
20	Investigations on gaseous hydrogen storage performances and reactivation ability of as-cast TiFe1-Ni (x=0, 0.1, 0.2 and 0.4) alloys. International Journal of Hydrogen Energy, 2019, 44, 4240-4252.	3.8	34
21	Improved hydrogen storage performances of Mg-Y-Ni-Cu alloys by melt spinning. Renewable Energy, 2019, 138, 263-271.	4.3	33
22	Hydrogen storage characteristics of the nanocrystalline and amorphous Mgâ€"Ndâ€"Niâ€"Cu-based alloys prepared by melt spinning. International Journal of Hydrogen Energy, 2014, 39, 3790-3798.	3.8	31
23	Microstructure and enhanced gaseous hydrogen storage behavior of CoS2-catalyzed Sm5Mg41 alloy. Renewable Energy, 2018, 116, 878-891.	4.3	31
24	Effects of rapid quenching on the electrochemical performances and microstructures of the Mm(NiMnSiAl)4.3Co0.6?xFex (x = 0?0.6) electrode alloys. Journal of Power Sources, 2004, 137, 309-316.	4.0	29
25	Comparative study of electrochemical performances of the as-melt Mg20Ni10â˜'xMx (M=None, Cu, Co,) Tj ETQq1 1 0.784314 rgBT /O 131-137.	2.8	29
26	Highly improved electrochemical hydrogen storage performances of the Ndâ€"Cuâ€"added Mg2Ni-type alloys by melt spinning. Journal of Alloys and Compounds, 2014, 584, 81-86.	2.8	29
27	Hydrogen induced amorphization behaviors of multiphase La0.8Mg0.2Ni3.5 alloy. International Journal of Hydrogen Energy, 2015, 40, 7093-7102.	3.8	28
28	Characterization of microstructure, hydrogen storage kinetics and thermodynamics of a melt-spun Mg86Y10Ni4 alloy. International Journal of Hydrogen Energy, 2019, 44, 6728-6737.	3.8	28
29	A comparison study of hydrogen storage properties of as-milled Sm 5 Mg 41 alloy catalyzed by CoS 2 and MoS 2 nano-particles. Journal of Materials Science and Technology, 2018, 34, 1851-1858.	5.6	27
30	Investigation on structure and hydrogen storage performance of as-milled and cast Mg 90 Al 10 alloys. International Journal of Hydrogen Energy, 2018, 43, 6642-6653.	3.8	27
31	Structure and hydrogenation performances of as-cast Ti1.1-RE Fe0.8Mn0.2 (REÂ=ÂPr, Sm and Nd; xÂ=Â0, 0.01) alloys. International Journal of Hydrogen Energy, 2018, 43, 19091-19101.	3.8	27
32	Phase evolution, thermodynamics and kinetics property of transition metal (TM = Zr, Ti, V) catalyzed Mgâ€"Ceâ€"Yâ€"Ni hydrogen storage alloys. Journal of Physics and Chemistry of Solids, 2020, 144, 109516.	1.9	27
33	Hydrogen storage behavior of Mg-based alloy catalyzed by carbon-cobalt composites. Journal of Magnesium and Alloys, 2021, 9, 1977-1988.	5.5	26
34	Influence of spark plasma sintering temperature on electrochemical performance of La0.80Mg0.20Ni3.75 alloy. Materials Chemistry and Physics, 2008, 112, 596-602.	2.0	24
35	Improved hydrogen storage kinetics of Mg-based alloys by substituting La with Sm. International Journal of Hydrogen Energy, 2020, 45, 21588-21599.	3.8	24
36	Characterization of microstructure, hydrogen storage kinetics and thermodynamics of ball-milled Mg90Y1.5Ce1.5Ni7 alloy. International Journal of Hydrogen Energy, 2021, 46, 17802-17813.	3.8	24

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37	Structures and electrochemical hydrogen storage behaviours of La0.75â^'xPrxMg0.25Ni3.2Co0.2Al0.1 (x=0â€“0.4) alloys prepared by melt spinning. International Journal of Hydrogen Energy, 2009, 34, 6335-6342.	3.8	23
38	Improvement in the hydrogen storage performance of the as-milled Smâ€“Mg alloys using MoS₂ nano-particle catalysts. RSC Advances, 2017, 7, 56365-56374.	1.7	23
39	Microstructure and hydrogen absorption/desorption properties of Mg24Y3M (MÂ=ÂNi, Co, Cu, Al) alloys. International Journal of Hydrogen Energy, 2018, 43, 8877-8887.	3.8	23
40	Electrochemical characteristics of Mg2â^'xZrxNi (x=0â€“0.6) electrode alloys prepared by mechanical alloying. Journal of Alloys and Compounds, 2008, 450, 208-214.	2.8	22
41	Influences of hydrogen-induced amorphization and annealing treatment on gaseous hydrogen storage properties of La1â^'Pr MgNi3.6Co0.4 (x= 0â€“0.4) alloys. Journal of Alloys and Compounds, 2015, 639, 15-20.	2.8	22
42	Hydrogen absorption and desorption behavior of Ni catalyzed Mgâ€“Yâ€“Câ€“Ni nanocomposites. Energy, 2018, 165, 709-719.	4.5	22
43	Improved hydrogen storage dynamics of amorphous and nanocrystalline Ce-Mg-Ni-based CeMg12-type alloys synthesized by ball milling. Renewable Energy, 2019, 132, 167-175.	4.3	22
44	Microstructure characteristics, hydrogen storage kinetic and thermodynamic properties of Mg80â€“Ni20Y (x = 0â€“7) alloys. International Journal of Hydrogen Energy, 2019, 44, 7371-7380.	3.8	22
45	Phase evolution, hydrogen storage thermodynamics and kinetics of ternary Mg90Ce5Sm5 alloy. Journal of Rare Earths, 2020, 38, 633-641.	2.5	22
46	Improvement of substituting La with Ce on hydrogen storage thermodynamics and kinetics of Mg-based alloys. International Journal of Hydrogen Energy, 2021, 46, 28719-28733.	3.8	22
47	Investigation on gaseous and electrochemical hydrogen storage performances of as-cast and milled Ti1.1Fe0.9Ni0.1 and Ti1.09Mg0.01Fe0.9Ni0.1 alloys. International Journal of Hydrogen Energy, 2018, 43, 1691-1701.	3.8	21
48	Dual-tuning of de/hydrogenation kinetic properties of Mg-based hydrogen storage alloy by building a Ni-/Co-multi-platform collaborative system. International Journal of Hydrogen Energy, 2021, 46, 24202-24213.	3.8	21
49	Research progress of TiFe-based hydrogen storage alloys. Journal of Iron and Steel Research International, 2022, 29, 537-551.	1.4	21
50	Investigation on structures and electrochemical characteristics of the as-cast and quenched La0.5Ce0.2Mg0.3Co0.4Ni2.6â^'xMnx (x=0â€“0.4) electrode alloys. Journal of Alloys and Compounds, 2008, 461, 591-597.	2.8	20
51	Electrochemical hydrogen storage characteristics of nanocrystalline and amorphous Mg20Ni10-xCox(x=0â^'4) alloys prepared by melt spinning. International Journal of Hydrogen Energy, 2009, 34, 8144-8151.	3.8	20
52	Structure and electrochemical performances of Mg2Ni1â^'Mn (x= 0â€“0.4) electrode alloys prepared by melt spinning. Electrochimica Acta, 2010, 56, 427-434.	2.6	20
53	Gaseous and electrochemical hydrogen storage kinetics of nanocrystalline Mg2Ni-type alloy prepared by rapid quenching. Journal of Alloys and Compounds, 2011, 509, 5604-5610.	2.8	20
54	Structure and electrochemical hydrogen storage characteristics of the as-cast and annealed La0.8-xSmxMg0.2Ni3.15Co0.2Al0.1Si0.05 (x=0-0.4) alloys. Journal of Rare Earths, 2012, 30, 696-704.	2.5	20

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55	Electrochemical performances of as-cast and annealed La0.8-x Nd x Mg0.2Ni3.35Al0.1Si0.05 (xÂ=Â0â€“0.4) alloys applied to Ni/metal hydride (MH) battery. Rare Metals, 2013, 32, 150-158.	3.6	20
56	Kinetic properties of La2Mg17â€“xÂwt.% Ni (xÂ=Â0â€“200) hydrogen storage alloys prepared by ball milling. International Journal of Hydrogen Energy, 2014, 39, 13557-13563.	3.8	20
57	An investigation on hydrogen storage thermodynamics and kinetics of Prâ€“Mgâ€“Ni-based PrMg12-type alloys synthesized by mechanical milling. Journal of Alloys and Compounds, 2016, 688, 585-593.	2.8	20
58	Hydrogen Storage Kinetics of Nanocrystalline and Amorphous LaMg12-Type Alloyâ€“Ni Composites Synthesized by Mechanical Milling. Journal of Materials Science and Technology, 2016, 32, 218-225.	5.6	19
59	Influence of adding nano-graphite powders on the microstructure and gas hydrogen storage properties of ball-milled Mg90Al10 alloys. Carbon, 2019, 149, 93-104.	5.4	19
60	Effect of Sm content on activation capability and hydrogen storage performances of TiFe alloy. International Journal of Hydrogen Energy, 2021, 46, 24517-24530.	3.8	19
61	Electrochemical hydrogen storage characteristics of as-cast and annealed La0.8-xNdxMg0.2Ni3.15Co0.2Al0.1Si0.05 (x=0â€“0.4) alloys. Transactions of Nonferrous Metals Society of China, 2013, 23, 1403-1412.	1.7	18
62	The electrochemical hydrogen storage performances of Si-added Laâ€“Mgâ€“Niâ€“Co-based A2B7-type electrode alloys. Rare Metals, 2015, 34, 569-579.	3.6	18
63	Single phase A2B7-type La-Mg-Ni alloy with improved electrochemical properties prepared by melt-spinning and annealing. Journal of Rare Earths, 2019, 37, 1305-1311.	2.5	18
64	Catalytic effect comparison of TiO2 and La2O3 on hydrogen storage thermodynamics and kinetics of the as-milled La-Sm-Mg-Ni-based alloy. Journal of Magnesium and Alloys, 2021, 9, 2063-2077.	5.5	18
65	Hydrogen storage kinetics of nanocrystalline and amorphous Cuâ€”Nd-added Mg2Ni-type alloys. Transactions of Nonferrous Metals Society of China, 2014, 24, 3524-3533.	1.7	17
66	Hydrogen storage thermodynamics and kinetics of REâ€“Mgâ€“Ni-based alloys prepared by mechanical milling. International Journal of Hydrogen Energy, 2017, 42, 18473-18483.	3.8	17
67	Structures and electrochemical hydrogen storage properties of melt-spun RE-Mgâ€“Niâ€“Coâ€“Al alloys. International Journal of Hydrogen Energy, 2017, 42, 14227-14245.	3.8	17
68	A comparison study of hydrogen storage performances of SmMg 11 Ni alloys prepared by melt spinning and ball milling. Journal of Rare Earths, 2018, 36, 409-417.	2.5	17
69	Novel A7B23-type La-Mg-Ni-Co compound for application on Ni-MH battery. Journal of Power Sources, 2019, 441, 126667.	4.0	17
70	Interactions of Y and Cu on Mg2Ni type hydrogen storage alloys: A study based on experiments and density functional theory calculation. International Journal of Hydrogen Energy, 2020, 45, 28974-28984.	3.8	17
71	Effect of milling duration on hydrogen storage thermodynamics and kinetics of Mg-based alloy. International Journal of Hydrogen Energy, 2020, 45, 33832-33845.	3.8	17
72	Effect of Pr content on activation capability and hydrogen storage performances of TiFe alloy. Journal of Alloys and Compounds, 2022, 890, 161785.	2.8	17

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73	A comparison study of hydrogen storage performances of as-milled YMg11Ni alloy catalyzed by CeO2 and MoS2. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 225, 1-9.	1.7	16
74	A comparison of TiF₃ and NbF₅ catalytic effects on hydrogen absorption and desorption kinetics of a ball-milled Mg₈₅Zn₅Ni₁₀ alloy. RSC Advances, 2018, 8, 34525-34535.	1.7	16
75	Hydrogen storage thermodynamics and dynamics of Mgâ€“Yâ€“Niâ€“Cu based alloys synthesized by melt spinning. Journal of Physics and Chemistry of Solids, 2020, 138, 109252.	1.9	16
76	Characterization on the kinetics and thermodynamics of Mg-based hydrogen storage alloy by the multiple alloying of Ce, Ni and Y elements. Materials Characterization, 2021, 182, 111583.	1.9	16
77	Effect of Nd content on electrochemical performances of nanocrystalline and amorphous (Mg24Ni10Cu2)100â^'xNdx (x=0â^'20) alloys prepared by melt spinning. Transactions of Nonferrous Metals Society of China, 2013, 23, 3668-3676.	1.7	15
78	A comparative study on the microstructure and cycling stability of the amorphous and nanocrystallization Mg60Ni20La10 alloys. International Journal of Hydrogen Energy, 2018, 43, 19141-19151.	3.8	15
79	Structure and electrochemical hydrogen storage characteristics of La0.8â^'x Pr x Mg0.2Ni3.15Co0.2Al0.1Si0.05 (x=0â€“0.4) electrode alloys. Journal of Central South University, 2013, 20, 1142-1150.	1.2	14
80	Effect of mechanical grinding on the electrochemical hydrogen storage properties of Mgâ€“Niâ€“Y alloy. Journal of Solid State Electrochemistry, 2015, 19, 1187-1195.	1.2	14
81	Effects of spinning rate on structures and electrochemical hydrogen storage performances of REâ€“Mgâ€“Niâ€“Mn-based AB2-type alloys. Transactions of Nonferrous Metals Society of China, 2016, 26, 3219-3231.	1.7	14
82	An investigation on hydrogen storage thermodynamics and kinetics of Ndâ€“Mgâ€“Ni-based alloys synthesized by mechanical milling. International Journal of Hydrogen Energy, 2016, 41, 12205-12213.	3.8	14
83	Structure and electrochemical hydrogen storage characteristics of Ce-Mg-Ni-based alloys synthesized by mechanical milling. Journal of Rare Earths, 2017, 35, 280-289.	2.5	14
84	Electrochemical hydrogen storage behaviors of as-cast and spun REâ€“Mgâ€“Niâ€“Coâ€“Al-based AB2-type alloys applied to Niâ€“MH battery. Rare Metals, 2020, 39, 181-192.	3.6	14
85	Electrochemical hydrogen storage behaviors of as-milled Mgâ€“Tiâ€“Niâ€“Coâ€“Al-based alloys applied to Ni-MH battery. Electrochimica Acta, 2020, 342, 136123.	2.6	14
86	Improved hydrogen storage performances of nanocrystalline RE5Mg41-type alloy synthesized by ball milling. Journal of Energy Storage, 2022, 46, 103702.	3.9	14
87	An investigation on the hydrogen storage characteristics of the melt-spun nanocrystalline and amorphous Mg20â^'xLaxNi10 (x=0, 2) hydrogen storage alloys. Materials Chemistry and Physics, 2009, 115, 328-333.	2.0	13
88	Hydrogen storage properties of nanocrystalline and amorphous Prâ€“Mgâ€“Ni-based alloys synthesized by mechanical milling. International Journal of Hydrogen Energy, 2017, 42, 22379-22387.	3.8	13
89	Hydrogen storage behavior of nanocrystalline and amorphous Laâ€“Mgâ€“Ni-based LaMg 12 -type alloys synthesized by mechanical milling. Transactions of Nonferrous Metals Society of China, 2017, 27, 551-561.	1.7	13
90	Effect of graphite (GR) content on microstructure and hydrogen storage properties of nanocrystalline Mg24Y3â€“Niâ€“GR composites. Journal of Alloys and Compounds, 2017, 726, 498-506.	2.8	13

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91	Hydrogen storage performance of the as-milled Y Mg Ni alloy catalyzed by CeO2. International Journal of Hydrogen Energy, 2018, 43, 1643-1650.	3.8	13
92	Effects of milling duration on electrochemical hydrogen storage behavior of as-milled Mgâ€“Ceâ€“Niâ€“Al-based alloys for use in Ni-metal hydride batteries. Journal of Physics and Chemistry of Solids, 2019, 133, 178-186.	1.9	13
93	Effects of adding nano-CeO2 powder on microstructure and hydrogen storage performances of mechanical alloyed Mg90Al10 alloy. International Journal of Hydrogen Energy, 2019, 44, 1735-1749.	3.8	13
94	Effect of graphite (GR) content on electrochemical hydrogen storage performances of nanocrystalline and amorphous La9Ce1Mg80Ni5â€“Niâ€“GR composites synthesized by mechanical milling. International Journal of Hydrogen Energy, 2020, 45, 29023-29033.	3.8	13
95	Investigations on hydrogen storage performances and mechanisms of as-cast TiFe0.8Ni0.2Co (m=0, 0.03,) Tj ETQq1 1 0.784314 rgBT /C	3.8	13
96	Microstructure characteristics, hydrogen storage thermodynamic and kinetic properties of Mgâ€“Niâ€“Y based hydrogen storage alloys. International Journal of Hydrogen Energy, 2022, 47, 27059-27070.	3.8	13
97	Structures and electrochemical hydrogen storage performance of Si added A2B7-type alloy electrodes. Transactions of Nonferrous Metals Society of China, 2014, 24, 406-414.	1.7	12
98	Effects of stoichiometric ratio La/Mg on structures and electrochemical performances of as-cast and annealed Laâ€“Mgâ€“Ni-based A2B7-type electrode alloys. Transactions of Nonferrous Metals Society of China, 2015, 25, 1968-1977.	1.7	12
99	Properties of Mechanically Milled Nanocrystalline and Amorphous Mgâ€“Yâ€“Ni Electrode Alloys for Niâ€“MH Batteries. Acta Metallurgica Sinica (English Letters), 2015, 28, 826-836.	1.5	12
100	Mechanism of distinct high rate dischargeability of La4MgNi19 electrode alloys prepared by casting and rapid quenching followed by annealing treatment. International Journal of Hydrogen Energy, 2016, 41, 18571-18581.	3.8	12
101	Hydrogen Storage Thermodynamics and Dynamics of Ndâ€“Mgâ€“Ni-Based NdMg12-Type Alloys Synthesized by Mechanical Milling. Acta Metallurgica Sinica (English Letters), 2016, 29, 577-586.	1.5	12
102	Degradation Characters of La-Mg-Ni-Based Metal Hydride Alloys: Corrosion and Pulverization Behaviors. Acta Metallurgica Sinica (English Letters), 2018, 31, 723-734.	1.5	12
103	Microstructure and improved hydrogen storage properties of Mg85Zn5Ni10 alloy catalyzed by Cr2O3 nanoparticles. Journal of Physics and Chemistry of Solids, 2019, 134, 295-306.	1.9	12
104	Structure and hydrogen storage characteristics of as-spun Mg-Y-Ni-Cu alloys. Journal of Materials Science and Technology, 2019, 35, 1727-1734.	5.6	12
105	Structure and hydrogen storage performances of Laâ€“Mgâ€“Niâ€“Cu alloys prepared by melt spinning. International Journal of Hydrogen Energy, 2019, 44, 5399-5407.	3.8	12
106	Enhanced hydrogen storage performance of Mg-Cu-Ni system catalyzed by CeO2 additive. Journal of Rare Earths, 2020, 38, 983-993.	2.5	12
107	Amorphous cobalt sulfide/N-doped carbon core/shell nanoparticles as an anode material for potassium-ion storage. Journal of Materials Science, 2020, 55, 15213-15221.	1.7	12
108	A comparison study of hydrogen storage performances of as-cast La10-RE Mg80Ni10 (xÂ=Â0 or 3; RE = Sm) Tj ETQq0 0 0 rgBT /Overloc	2.8	12

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109	Effect of Y partially substituting La on the phase structure and hydrogen storage property of Laâ€“Mgâ€“Ni alloys. Journal of Physics and Chemistry of Solids, 2022, 167, 110744.	1.9	12
110	Hydrogen storage behaviours of nanocrystalline and amorphous Mg20Ni10-xCox(x=0-4) alloys prepared by melt spinning. Transactions of Nonferrous Metals Society of China, 2010, 20, 405-411.	1.7	11
111	An investigation of hydrogen storage kinetics of melt-spun nanocrystalline and amorphous Mg2Ni-type alloys. Journal of Rare Earths, 2011, 29, 87-93.	2.5	11
112	Catalytic effect of MoS2 on hydrogen storage thermodynamics and kinetics of an as-milled YMg11Ni alloy. RSC Advances, 2017, 7, 37689-37698.	1.7	11
113	Effect of milling duration on hydrogen storage thermodynamics and kinetics of ball-milled Ceâ€“Mgâ€“Ni-based alloy powders. Journal of Iron and Steel Research International, 2018, 25, 746-754.	1.4	11
114	Gas hydrogen absorption and electrochemical properties of Mg24Ni10Cu2 alloys improved by Y substitution, ball milling and Ni addition. International Journal of Hydrogen Energy, 2019, 44, 5382-5388.	3.8	11
115	A comparative study of NbF5 catalytic effects on hydrogenation/dehydrogenation kinetics of Mg-Zn-Ni and Mg-Cu-Ni systems. Materials Characterization, 2021, 174, 110993.	1.9	11
116	Microstructures and electrochemical performances of La2Mg(Ni0.85Co0.15)9MxMx (M=BM=B, Cr, Ti;) Tj ETQq0 0 0 rgBT /Overlock 10 T Hydrogen Energy, 2006, 31, 63-69.	3.8	10
117	Effect of annealing temperature on microstructure and electrochemical performance of La0.75Mg0.25Ni3.5Co0.2 hydrogen storage electrode alloy. Journal of Rare Earths, 2008, 26, 99-104.	2.5	10
118	Investigation on electrochemical performances of melt-spun nanocrystalline and amorphous Mg2Ni1â^'xMnx (xÂ=Â0â€“0.4) electrode alloys. International Journal of Hydrogen Energy, 2010, 35, 11025-11034.	3.8	10
119	Electrochemical hydrogen storage characteristics of La0.75â^'x M x Mg0.25Ni3.2Co0.2Al0.1 (M = Zr, Pr; x) Tj ETQq1 1 0.784314 rgBT	3.6	10
120	Highly Improved Gaseous Hydrogen Storage Characteristics of the Nanocrystalline and Amorphous Ndâ€“Cu-added Mg2Ni-type Alloys by MeltÂSpinning. Journal of Materials Science and Technology, 2014, 30, 1020-1026.	5.6	10
121	An investigation on electrochemical hydrogen storage performances of Mg-Y-Ni alloys prepared by mechanical milling. Journal of Rare Earths, 2015, 33, 874-883.	2.5	10
122	Structures and electrochemical performances of as-spun RE-Mg-Ni-Co-Al alloys applied to Ni-MH battery. Journal of Materials Science and Technology, 2018, 34, 370-378.	5.6	10
123	Catalytic effects of TiO2 on hydrogen storage thermodynamics and kinetics of the as-milled Mg-based alloy. Materials Characterization, 2021, 176, 111118.	1.9	10
124	Characteristics of electrochemical hydrogen storage using Tiâ€“Fe based alloys prepared by ball milling. International Journal of Hydrogen Energy, 2022, 47, 1036-1047.	3.8	10
125	Effect of substituting Ni with Cu on the cycle stability of La0.7Mg0.3Ni2.55â^'xCo0.45Cux (x=0â€“0.4) electrode alloy prepared by casting and rapid quenching. Materials Characterization, 2007, 58, 289-295.	1.9	9
126	Effect of Ni/(La+Mg) ratio on structure and electrochemical performance of La-Mg-Ni alloy system. Journal of Iron and Steel Research International, 2009, 16, 83-88.	1.4	9

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127	Influence of the substituting Ni with Fe on the cycle stabilities of as-cast and as-quenched La0.7Mg0.3Co0.45Ni2.55â^xFex (x=0â€“0.4) electrode alloys. Materials Characterization, 2010, 61, 305-311.	1.9	9
128	Enhanced hydrogen storage kinetics of nanocrystalline and amorphous Mg2N-type alloy by substituting Ni with Co. Transactions of Nonferrous Metals Society of China, 2011, 21, 2002-2009.	1.7	9
129	Electrochemical hydrogen storage characteristics of nanocrystalline and amorphous Mg2Ni-type alloys prepared by melt-spinning. Transactions of Nonferrous Metals Society of China, 2011, 21, 502-511.	1.7	9
130	Electrochemical hydrogen-storage performance of Mg20â^'x Y x Ni10 (xÂ=Â0â€“4) alloys prepared by mechanical milling. Journal of Applied Electrochemistry, 2015, 45, 931-941.	1.5	9
131	Structures and electrochemical performances of RE-Mg-Ni-Mn-based alloys prepared by casting and melt spinning. Journal of Rare Earths, 2016, 34, 1241-1251.	2.5	9
132	Structures and electrochemical performances of as-cast and spun RE-Mg-Ni-Mn-based alloys applied to Ni-MH battery. Journal of Iron and Steel Research International, 2017, 24, 296-305.	1.4	9
133	Electrochemical hydrogen storage performance of as-cast and as-spun RE-Mg-Ni-Co-Al-based alloys applied to Ni/MH battery. Transactions of Nonferrous Metals Society of China, 2018, 28, 711-721.	1.7	9
134	Microstructure, hydrogen storage thermodynamics and kinetics of La5Mg95â€“Ni (x=5, 10, 15) alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 1057-1066.	1.7	9
135	Hydrogen storage thermodynamics and dynamics of Laâ€“Mgâ€“Ni-based LaMg12-type alloys synthesized by mechanical milling. Rare Metals, 2019, 38, 1144-1152.	3.6	9
136	Influences of La addition on the hydrogen storage performances of TiFe-base alloy. Journal of Physics and Chemistry of Solids, 2021, 157, 110176.	1.9	9
137	Effects of adding Nd on the microstructure and dehydrogenation performance of Mg90Al10 alloy. Materials Characterization, 2021, 171, 110795.	1.9	9
138	Investigation on the gaseous hydrogen storage properties of as-cast Mg95-Al5Y (x = 0â€“5) alloys. International Journal of Hydrogen Energy, 2022, 47, 12653-12664.	3.8	9
139	The hydrogenation and dehydrogenation behaviours of Mg20â^'xLaxNi10(x=0â€“6) alloys prepared by casting and rapid quenching. Journal of Alloys and Compounds, 2009, 476, 457-461.	2.8	8
140	Effects of substituting La with M (M=Sm, Nd, Pr) on electrochemical hydrogen storage characteristics of A2B7-type electrode alloys. Transactions of Nonferrous Metals Society of China, 2014, 24, 4012-4022.	1.7	8
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