

Yunfeng Zhu

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.

106
papers

2,058
citations

28
h-index

39
g-index

110
ext. papers

2,537
ext. citations

6.1
avg, IF

5.08
L-index

#	Paper	IF	Citations
106	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	6.7	0
105	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	6.7	3
104	in-situ formed Pt nano-clusters serving as destabilization-catalysis bi-functional additive for MgH ₂ . <i>Chemical Engineering Journal</i> , 2022 , 435, 135050	14.7	1
103	VS ₄ anchored on Ti ₃ C ₂ MXene as a high-performance cathode material for magnesium ion battery. <i>Journal of Power Sources</i> , 2022 , 518, 230731	8.9	5
102	Synergistic effect of TiH ₂ and air exposure on enhancing hydrogen storage performance of Mg ₂ NiH ₄ . <i>Chemical Engineering Journal</i> , 2022 , 433, 134489	14.7	3
101	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> , 2022 , 10, 420	2.9	0
100	Significantly improved hydrogen storage properties of Mg ₉₀ Al ₁₀ catalyzed by TiF ₃ . <i>Journal of Alloys and Compounds</i> , 2022 , 908, 164581	5.7	0
99	Mechanism of improving hydrogenation of Mg by in-situ formation of Al* in hydriding combustion synthesis. <i>Journal of Alloys and Compounds</i> , 2022 , 911, 164969	5.7	0
98	Supra Hydrolytic Catalysis of Ni Fe/rGO for Hydrogen Generation.. <i>Advanced Science</i> , 2022 , e2201428	13.6	
97	Catalytic effect of micro/nano-Ni on dehydrogenation performance of Mg ₉₀ Al ₁₀ during air exposure. <i>Applied Surface Science</i> , 2022 , 595, 153569	6.7	0
96	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> , 2021 , 162682	5.7	1
95	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> , 2021 , 895, 162635	5.7	3
94	Controllable hydrogen generation behavior by hydrolysis of MgH ₂ -based materials. <i>Journal of Power Sources</i> , 2021 , 494, 229726	8.9	7
93	Enhancing hydrogen storage properties of MgH ₂ by core-shell CoNi@C. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158004	5.7	13
92	Vacancy-Mediated Hydrogen Spillover Improving Hydrogen Storage Properties and Air Stability of Metal Hydrides. <i>Small</i> , 2021 , 17, e2100852	11	4
91	NiSe ₂ /Ti ₃ C ₂ as a promising cathode material for rechargeable dual Mg/Li-ion battery. <i>Materials Letters</i> , 2021 , 283, 128721	3.3	5
90	Interface effect in sandwich like Ni/Ti ₃ C ₂ catalysts on hydrogen storage performance of MgH ₂ . <i>Applied Surface Science</i> , 2021 , 564, 150302	6.7	16

89	Synergistic effect of rGO supported Ni ₃ Fe on hydrogen storage performance of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16622-16633	6.7	30
88	Ultrahigh rate capability and long cycling stability of dual-ion batteries enabled by TiO microspheres with abundant oxygen vacancies. <i>Chemical Communications</i> , 2020 , 56, 8039-8042	5.8	8
87	Cobalt ion intercalated MnO ₂ /C as air cathode catalyst for rechargeable aluminum-air battery. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153950	5.7	7
86	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	6.7	18
85	Crystal-facet-dependent catalysis of anatase TiO ₂ on hydrogen storage of MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153553	5.7	34
84	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	5.7	7
83	Catalytic effect of sandwich-like TiC/TiO(A)-C on hydrogen storage performance of MgH. <i>Nanotechnology</i> , 2020 , 31, 115404	3.4	10
82	Influence of Sn, Cd, and Si addition on the electrochemical performance of Al-Zn sacrificial anodes. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020 , 71, 585-592	1.6	4
81	Effect of Few-Layer TiCT Supported Nano-Ni via Self-Assembly Reduction on Hydrogen Storage Performance of MgH. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47684-47694	9.5	18
80	Synergistic Catalytic Mechanism between Ni and Carbon Aerogel for Dehydrogenation of Mg-Based Hydrides. <i>Energy & Fuels</i> , 2020 , 34, 10232-10240	4.1	5
79	Enhanced hydrogen generation via hydrolysis of Mg-Mg ₂ NiH ₄ system. <i>Journal of Power Sources</i> , 2020 , 476, 228499	8.9	9
78	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	5.7	5
77	Purity of MgH ₂ 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> , 2019 , 93, 665-673	0.7	2
76	Enhanced dehydrogenation properties of LiAlH ₄ -Mg ₂ NiH ₄ nanocomposites via doping Ti-based catalysts. <i>Materials Research Express</i> , 2019 , 6, 075067	1.7	3
75	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	3.5	13
74	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	2.3	23
73	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	5.7	30
72	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	6.7	22

71	Magnesium Nanoparticles With Pd Decoration for Hydrogen Storage. <i>Frontiers in Chemistry</i> , 2019 , 7, 949	5	6
70	Improved Hydrogen Absorption/Desorption Properties of MgH ₂ by CoCatalyzing of YH ₂ and Co@C. <i>ChemistrySelect</i> , 2019 , 4, 7709-7714	1.8	6
69	An exciting synergistic effect: realizing large-sized MgH ₂ dehydrogenation at lowered temperatures by locally assembling a heterophase composite. <i>Materials Today Energy</i> , 2019 , 14, 100345	7	0
68	State of the art multi-strategy improvement of Mg-based hydrides for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 796-823	5.7	70
67	Catalytic effect of in situ formed nano-Mg ₂ Ni and Mg ₂ Cu on the hydrogen storage properties of Mg-Y hydride composites. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 242-250	5.7	28
66	Facile Synthesis of Carbon Supported Nano-Ni Particles with Superior Catalytic Effect on Hydrogen Storage Kinetics of MgH ₂ . <i>ACS Applied Energy Materials</i> , 2018 , 1, 1158-1165	6.1	50
65	Effect of partial substitution of Ti for Al on the phase structure and electrochemical hydrogen storage properties of Mg ₃ AlNi ₂ alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 746, 421-427	5.7	9
64	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> , 2018 , 750, 490-498	5.7	10
63	Enhancing hydrogen storage performances of MgH by Ni nano-particles over mesoporous carbon CMK-3. <i>Nanotechnology</i> , 2018 , 29, 265705	3.4	40
62	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> , 2018 , 28, 7-14	3.6	8
61	Electrochemical properties of Mg ₃ MnNi ₂ -x% polymethyl methacrylate-multiwalled carbon nanotubes (PMMA-MWCNTs) (x = 25, 50, 75, 100). <i>Journal of Materials Science</i> , 2018 , 53, 6033-6041	4.3	3
60	Remarkable Synergistic Catalysis of Ni-Doped Ultrafine TiO on Hydrogen Sorption Kinetics of MgH. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24975-24980	9.5	49
59	Hydrogen storage performances and reaction mechanism of non-stoichiometric compound Li _{1.3} Na _{1.7} AlH ₆ doped with Ti ₃ C ₂ . <i>Chemical Physics</i> , 2018 , 513, 135-140	2.3	6
58	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	5.6	19
57	Kinetic performance of hydrogen generation enhanced by AlCl ₃ via hydrolysis of MgH ₂ prepared by hydriding combustion synthesis. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10232-10239	6.7	30
56	Synergistic hydrogen desorption properties of the 4LiAlH ₄ + Mg ₂ NiH ₄ composite. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 80-85	5.7	10
55	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	5.7	5
54	Metal Hydride Nanoparticles with Ultrahigh Structural Stability and Hydrogen Storage Activity Derived from Microencapsulated Nanoconfinement. <i>Advanced Materials</i> , 2017 , 29, 1700760	24	85

53	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	5.7	26
52	Enhanced hydriding kinetics of Mg-10 at% Al composite by forming Al ₁₂ Mg ₁₇ during hydriding combustion synthesis. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 44-49	5.7	21
51	Controlling nanocrystallization and hydrogen storage property of Mg-based amorphous alloy via a gas-solid reaction. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 272-277	5.7	37
50	The electrochemical hydrogen storage properties of Mg ₆₇ Pd _x Co ₃₃ (x=1, 3, 5, 7) electrodes with BCC phase. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 396-403	5.7	6
49	Effect of multi-wall carbon nanotubes supported nano-nickel and TiF ₃ addition on hydrogen storage properties of magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2016 , 669, 8-18	5.7	41
48	Nickel-decorated graphene nanoplates for enhanced H ₂ sorption properties of magnesium hydride at moderate temperatures. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2560-2570	13	77
47	The hydrogen storage performance of a 4MgH ₂ LiAlH ₄ TiH ₂ composite system. <i>Journal of Alloys and Compounds</i> , 2016 , 676, 557-564	5.7	14
46	The electrochemical hydrogen storage performances of Mg _x Co _{100-x} (x=40, 45, 50, 55, 60, 63) body-centered cubic alloys and their Pd-doped system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 1089-1097	6.7	8
45	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	2.5	8
44	Alkaline poly(vinyl alcohol)/poly(acrylic acid) polymer electrolyte membrane for Ni-MH battery application. <i>Ionics</i> , 2015 , 21, 141-148	2.7	19
43	Remarkable hydrogen storage properties at low temperature of Mg ₉₀ Ni ₁₀ composites prepared by hydriding combustion synthesis and mechanical milling. <i>RSC Advances</i> , 2015 , 5, 63202-63208	3.7	14
42	The effects of Pd and/or Zr additives on the structures and cyclic stabilities of Mg ₅₀ Ni ₅₀ -based electrode alloys. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2768-2774	6.7	9
41	Phase transformation, kinetics and thermodynamics during the combustion synthesis of Mg ₂ Al ₃ alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 628, 257-262	5.7	9
40	Significantly improved electrochemical hydrogen storage properties of magnesium nickel hydride modified with nano-nickel. <i>Journal of Power Sources</i> , 2015 , 280, 132-140	8.9	39
39	Excellent catalytic effects of multi-walled carbon nanotube supported titania on hydrogen storage of a Mg-Ni alloy. <i>Chemical Communications</i> , 2015 , 51, 2368-71	5.8	31
38	Kinetics and electrochemical characteristics of Mg ₂ NiH _{4-x} wt.% MmNi _{3.8} Co _{0.75} Mn _{0.4} Al _{0.2} (x = 5, 10, 20, 40) composites for Ni-MH battery. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3887-3894	6.7	12
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, 6641-4	5.8	32
36	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	6.7	41

35	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	1.3	5
34	Synergistic hydrogen desorption of HCS MgH ₂ +LiAlH ₄ composite. <i>Energy</i> , 2013 , 55, 933-938	7.9	20
33	Combustion synthesis of Mg-based hydrogen storage alloy Mg ₁₇ Al ₁₂ . <i>Advanced Powder Technology</i> , 2013 , 24, 643-646	4.6	9
32	Efficient catalysis by MgCl ₂ in hydrogen generation via hydrolysis of Mg-based hydride prepared by hydriding combustion synthesis. <i>Chemical Communications</i> , 2012 , 48, 5509-11	5.8	40
31	Hydrogen storage properties of Mg ₉₅ Ni ₅ composites prepared by hydriding combustion synthesis and mechanical milling. <i>Journal of Alloys and Compounds</i> , 2012 , 520, 207-212	5.7	16
30	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). <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17146-17152	6.7	16
29	Electrochemical hydrogen storage properties of Mg ₂ Al _x Ni (x=0, 0.3, 0.5, 0.7) prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18140-18147	6.7	16
28	Structural and electrochemical hydrogen storage properties of Mg ₂ Ni-based alloys. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5309-5314	5.7	34
27	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	5.7	5
26	Effects of metal additive on electrochemical performances of Mg-based hydrogen storage materials prepared by hydriding combustion synthesis and subsequent mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8241-8246	6.7	4
25	Hydrogen storage properties of Mg ₉₅ Ni ₅ system hydrogen storage materials prepared by hydriding combustion synthesis and mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 6350-6355	6.7	28
24	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	6.7	8
23	Hydrogen storage properties of Mg ₉₅ Ni ₅ Cu prepared by hydriding combustion synthesis and mechanical milling (HCS+MM). <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 2654-2660	6.7	43
22	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	6.7	19
21	Structural and hydriding/dehydriding properties of Mg ₉₅ Al ₅ Ni-based composites. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 440-444	5.7	14
20	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	5.7	5
19	Structures and hydrogen storage properties of Mg ₉₅ Ni ₅ composite prepared by hydriding combustion synthesis and mechanical milling. <i>Materials Chemistry and Physics</i> , 2008 , 112, 218-222	4.4	17
18	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	5.7	25

17	Hydriding combustion synthesis of Mg _{1-x} LaNi ₅ composites. <i>Journal of Alloys and Compounds</i> , 2008 , 458, 394-397	5-7	10
16	Effect of rapid solidification on the structural and electrochemical properties of the TiV-based hydrogen storage electrode alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 528-532	5-7	12
15	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> , 2008 , 33, 2965-2969	6-7	16
14	Effect of La/Ni ratio on hydrogen storage properties of Mg _{1-x} La system prepared by hydriding combustion synthesis followed by mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 2970-2974	6-7	45
13	Structural and hydrogenation properties of SrAl _{2-x} Ni _x alloys. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 7498-7504	6-7	4
12	Mechanism of the high activity of 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	6-7	30
11	Effect of surface oxidation on the hydriding and dehydriding of Mg ₂ Ni alloy produced by hydriding combustion synthesis. <i>Journal of Materials Science</i> , 2007 , 42, 9725-9729	4-3	2
10	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	3-5	28
9	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	5-7	18
8	The effect of Mn substitution for Ni on the structural and electrochemical properties of La _{0.7} Mg _{0.3} Ni _{2.55-x} Co _{0.45} Mn _x hydrogen storage electrode alloys. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 297-305	6-7	93
7	XRD study of the hydrogenation and dehydrogenation process of the two different phase components in a TiV-based multiphase hydrogen storage electrode alloy. <i>Journal of Alloys and Compounds</i> , 2004 , 370, 254-260	5-7	45
6	Structural and electrochemical properties of hydrogen storage alloys Ti _{0.8} Zr _{0.2} V _{2.7} Mn _{0.5} Cr _{0.8} Ni _x (x = 1.50-2.25). <i>Journal of Alloys and Compounds</i> , 2004 , 373, 223-230	5-7	13
5	A study on improving the cycling stability of (Ti _{0.8} Zr _{0.2})(V _{0.533} Mn _{0.107} Cr _{0.16} Ni _{0.2}) ₄ hydrogen storage electrode alloy by means of annealing treatment: II. Effects on the electrochemical properties. <i>Journal of Alloys and Compounds</i> , 2003 , 348, 301-308	5-7	26
4	An investigation on the structural and electrochemical properties of La _{0.7} Mg _{0.3} (Ni _{0.85} Co _{0.15}) _x (x=3.15-3.80) hydrogen storage electrode alloys. <i>Journal of Alloys and Compounds</i> , 2003 , 351, 228-234	5-7	135
3	Investigation of the Structural and Electrochemical Properties of Superstoichiometric Ti-Zr-V-Mn-Cr-Ni Hydrogen Storage Alloys. <i>Journal of the Electrochemical Society</i> , 2002 , 149, A829	3-9	51
2	A study on improving the cycling stability of (Ti _{0.8} Zr _{0.2})(V _{0.533} Mn _{0.107} Cr _{0.16} Ni _{0.2}) ₄ hydrogen storage electrode alloy by means of annealing treatment: I. <i>Journal of Alloys and Compounds</i> , 2002 , 347, 279-284	5-7	17
1	Air-stable magnesium nickel hydride with autocatalytic and self-protective effect for reversible hydrogen storage. <i>Nano Research</i> , 1	10	0