

# Ping Wang

## List of Publications by Citations

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152  
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6,852  
ext. citations

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avg, IF

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#	Paper	IF	Citations
152	Ammonia borane destabilized by lithium hydride: an advanced on-board hydrogen storage material. <i>Advanced Materials</i> , <b>2008</b> , 20, 2756-9	24	172
151	Amorphous cobaltBoron/nickel foam as an effective catalyst for hydrogen generation from alkaline sodium borohydride solution. <i>Journal of Power Sources</i> , <b>2008</b> , 177, 17-23	8.9	169
150	Cobalt nickel boride as an active electrocatalyst for water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12379-12384	13	166
149	Microporous metal-organic framework constructed from heptanuclear zinc carboxylate secondary building units. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 3754-8	4.8	156
148	Hydrogen-rich boron-containing materials for hydrogen storage. <i>Dalton Transactions</i> , <b>2008</b> , 5400-13	4.3	154
147	Lithium-Catalyzed Dehydrogenation of Ammonia Borane within Mesoporous Carbon Framework for Chemical Hydrogen Storage. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 265-271	15.6	148
146	Hydrogen generation from sodium borohydride solution using a ruthenium supported on graphite catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 3023-3028	6.7	143
145	Effect of carbon/noncarbon addition on hydrogen storage behaviors of magnesium hydride. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 414, 259-264	5.7	136
144	Superior catalytic effect of TiF3 over TiCl3 in improving the hydrogen sorption kinetics of MgH2: Catalytic role of fluorine anion. <i>Acta Materialia</i> , <b>2009</b> , 57, 2250-2258	8.4	125
143	Kinetic- and thermodynamic-based improvements of lithium borohydride incorporated into activated carbon. <i>Acta Materialia</i> , <b>2008</b> , 56, 6257-6263	8.4	124
142	Reversible hydrogen storage in LiBH4 destabilized by milling with Al. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 963-966	2.6	118
141	High-performance cobaltTungstenBoron catalyst supported on Ni foam for hydrogen generation from alkaline sodium borohydride solution. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4405-4412	6.7	115
140	Metallic and carbon nanotube-catalyzed coupling of hydrogenation in magnesium. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15650-4	16.4	114
139	Hydrogen storage properties of MgH2/SWNT composite prepared by ball milling. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 420, 278-282	5.7	109
138	Synthesis and plasmon-induced charge-transfer properties of monodisperse gold-doped titania microspheres. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 4366-72	4.8	98
137	Highly Dispersed Platinum on Honeycomb-like [email protected] Film as a Synergistic Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8866-8872	13.1	93
136	Promoted hydrogen generation from ammonia borane aqueous solution using cobaltMolybdenumBoron/nickel foam catalyst. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 307-312	8.9	89

135	Hydrogen in mechanically prepared nanostructured h-BN: a critical comparison with that in nanostructured graphite. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 318-320	3.4	87
134	Thermodynamically tuning LiBH <sub>4</sub> by fluorine anion doping for hydrogen storage: A density functional study. <i>Chemical Physics Letters</i> , <b>2008</b> , 450, 318-321	2.5	86
133	Preparation of Ti-Doped Sodium Aluminum Hydride from Mechanical Milling of NaH/Al with Off-the-Shelf Ti Powder. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 15827-15829	3.4	84
132	Cobalt Molybdenum Oxide Derived High-Performance Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , <b>2018</b> , 8, 5062-5069	13.1	82
131	Effects of SWNT and metallic catalyst on hydrogen absorption/desorption performance of MgH <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 22217-21	3.4	82
130	Exploration of the nature of active Ti species in metallic Ti-doped NaAlH <sub>4</sub> . <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 20131-6	3.4	79
129	A cost-effective NiMoB@Al(OH) <sub>3</sub> catalyst for hydrogen generation from decomposition of alkaline hydrous hydrazine solution. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11623	13	76
128	Hydrogen bubbles dynamic template preparation of a porous Fe <sub>3</sub> O <sub>4</sub> /Ni foam catalyst for hydrogen generation from hydrolysis of alkaline sodium borohydride solution. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 359-365	5.7	76
127	Hydrogenation characteristics of Mg <sub>2</sub> TiO <sub>2</sub> (rutile) composite. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 313, 218-223	5.7	76
126	Functional anion concept: effect of fluorine anion on hydrogen storage of sodium alanate. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1499-502	3.6	74
125	Hydrogen sorption kinetics of MgH <sub>2</sub> catalyzed with NbF <sub>5</sub> . <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 453, 138-142	5.7	73
124	Hydrogen sorption kinetics of MgH <sub>2</sub> catalyzed with titanium compounds. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 3046-3050	6.7	70
123	Improved Reversible Dehydrogenation of Lithium Borohydride by Milling with As-Prepared Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17023-17029	3.8	67
122	Solid-state thermolysis of ammonia borane and related materials for high-capacity hydrogen storage. <i>Dalton Transactions</i> , <b>2012</b> , 41, 4296-302	4.3	64
121	Promoted hydrogen release from ammonia borane by mechanically milling with magnesium hydride: a new destabilizing approach. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 2507-13	3.6	64
120	Ruthenium nanoparticles immobilized in montmorillonite used as catalyst for methanolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10317-10323	6.7	64
119	Improved hydrogen storage of TiF <sub>3</sub> -doped NaAlH <sub>4</sub> . <i>ChemPhysChem</i> , <b>2005</b> , 6, 2488-91	3.2	62
118	Method for preparing Ti-doped NaAlH <sub>4</sub> using Ti powder: observation of an unusual reversible dehydrogenation behavior. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 379, 99-102	5.7	61

117	Reaction of aluminium with alkaline sodium stannate solution as a controlled source of hydrogen. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2206	35.4	60
116	High-performance nickel-platinum nanocatalyst supported on mesoporous alumina for hydrogen generation from hydrous hydrazine. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 554-560	8.9	59
115	Study of cobalt boride-derived electrocatalysts for overall water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 6076-6087	6.7	56
114	Improving hydrogen sorption kinetics of MgH <sub>2</sub> by mechanical milling with TiF <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 432, L1-L4	5.7	56
113	Unexpected dehydrogenation behavior of LiBH <sub>4</sub> /Mg(BH <sub>4</sub> ) <sub>2</sub> mixture associated with the in situ formation of dual-cation borohydride. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, L1-L4	5.7	53
112	In situ grown Ni phosphide nanowire array on Ni foam as a high-performance catalyst for hydrazine electrooxidation. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 292-298	21.8	53
111	Improved hydrogen storage property of LiMgBH <sub>4</sub> system by milling with titanium trifluoride. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 120-123	35.4	52
110	Improved hydrogen storage performance of LiMgBH <sub>4</sub> materials by optimizing composition and adding single-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 1262-1268	6.7	52
109	Structure and hydrogen storage property of ball-milled LiNH <sub>2</sub> /MgH <sub>2</sub> /LiNH <sub>2</sub> /MgH <sub>2</sub> mixture. <i>International Journal of Hydrogen Energy</i> , <b>2006</b> , 31, 1236-1240	6.7	52
108	Combined formation and decomposition of dual-metal amidoborane NaMg(NH <sub>2</sub> BH <sub>3</sub> ) <sub>3</sub> for high-performance hydrogen storage. <i>Dalton Transactions</i> , <b>2011</b> , 40, 3799-801	4.3	49
107	Combined Effects of Functional Cation and Anion on the Reversible Dehydrogenation of LiBH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 11839-11845	3.8	47
106	Pt-embedded in monolayer g-C <sub>3</sub> N <sub>4</sub> as a promising single-atom electrocatalyst for ammonia synthesis. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11908-11914	13	45
105	Improved hydrogen storage properties of LiBH <sub>4</sub> by mechanical milling with various carbon additives. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8247-8252	6.7	44
104	In situ formation and rapid decomposition of Ti(BH <sub>4</sub> ) <sub>3</sub> by mechanical milling LiBH <sub>4</sub> with TiF <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2009</b> , 94, 044104	3.4	41
103	New Insights into Catalytic Hydrolysis Kinetics of Sodium Borohydride from Michaelis-Menten Model. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15886-15892	3.8	41
102	Highly efficient Ni@NiPt/La <sub>2</sub> O <sub>3</sub> catalyst for hydrogen generation from hydrous hydrazine decomposition: Effect of NiPt surface alloying. <i>Journal of Power Sources</i> , <b>2015</b> , 300, 294-300	8.9	40
101	Hydrogen generation from coupling reactions of sodium borohydride and aluminum powder with aqueous solution of cobalt chloride. <i>Catalysis Today</i> , <b>2011</b> , 170, 50-55	5.3	40
100	Enhanced hydrogen storage properties of MgH <sub>2</sub> co-catalyzed with NbF <sub>5</sub> and single-walled carbon nanotubes. <i>Scripta Materialia</i> , <b>2007</b> , 56, 765-768	5.6	40

99	Effect of SWNTs on the reversible hydrogen storage properties of LiBH <sub>4</sub> /MgH <sub>2</sub> composite. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 5611-5616	6.7	40
98	Effect of trapped hydrogen on the induction period of cobalt-tungsten-boron/nickel foam catalyst in catalytic hydrolysis reaction of sodium borohydride. <i>Catalysis Today</i> , <b>2011</b> , 170, 27-32	5.3	39
97	Catalytically Enhanced Hydrogen Storage Properties of Mg(NH <sub>2</sub> ) <sub>2</sub> + 2LiH Material by Graphite-Supported Ru Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 18280-18285	3.8	38
96	A comparative study of the structural, electronic, and vibrational properties of NH <sub>3</sub> BH <sub>3</sub> and LiNH <sub>2</sub> BH <sub>3</sub> : theory and experiment. <i>ChemPhysChem</i> , <b>2009</b> , 10, 1825-33	3.2	37
95	Evaluation of a cobalt-tungsten-boron catalyst for hydrogen generation of alkaline sodium borohydride solution-aluminum powder system. <i>Journal of Power Sources</i> , <b>2013</b> , 224, 304-311	8.9	36
94	Synthesis, formation mechanism, and dehydrogenation properties of the long-sought Mg(NH <sub>2</sub> BH <sub>3</sub> ) <sub>2</sub> compound. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1018	35.4	36
93	Catalytic effect of Al <sub>3</sub> Ti on the reversible dehydrogenation of NaAlH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 424, 365-369	5.7	36
92	Structural and hydriding properties of composite Mg <sub>70</sub> ZrFe <sub>1.4</sub> Cr <sub>0.6</sub> . <i>Acta Materialia</i> , <b>2001</b> , 49, 921-926	8.4	35
91	Complete and Rapid Conversion of Hydrazine Monohydrate to Hydrogen over Supported Ni-Pt Nanoparticles on Mesoporous Ceria for Chemical Hydrogen Storage. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15439-45	4.8	34
90	Mg <sub>70</sub> FeTi <sub>1.2</sub> (amorphous) composite for hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 334, 243-248	5.7	34
89	Hydriding properties of a mechanically milled Mg <sub>70</sub> wt.% ZrFe <sub>1.4</sub> Cr <sub>0.6</sub> composite. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 297, 240-245	5.7	33
88	LiBH <sub>4</sub> /NH <sub>3</sub> BH <sub>3</sub> : A new lithium borohydride ammonia borane compound with a novel structure and favorable hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 10750-10757	6.7	32
87	Formation and Hydrogen Storage Properties of Dual-Cation (Li, Ca) Borohydride. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 22736-22741	3.8	32
86	Promotion of hydrogen release from ammonia borane with magnesium nitride. <i>Dalton Transactions</i> , <b>2011</b> , 40, 6469-74	4.3	32
85	Ni <sub>70</sub> Zn Alloy Nanosheets Arrayed on Nickel Foams a Promising Catalyst for Electrooxidation of Hydrazine. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1944-1949	4.3	31
84	A new reactivation method towards deactivation of honeycomb ceramic monolith supported cobalt-tungsten-boron catalyst in hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 9373-9381	6.7	31
83	Catalytically enhanced dehydrogenation of LiMgNH hydrogen storage material by transition metal nitrides. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 468, L21-L24	5.7	31
82	Reversible dehydrogenation of LiBH <sub>4</sub> catalyzed by as-prepared single-walled carbon nanotubes. <i>Scripta Materialia</i> , <b>2008</b> , 58, 922-925	5.6	31

81	Effect of carbon addition on hydrogen storage behaviors of LiMgBH system. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 3072-3075	6.7	30
80	A novel three-step method for preparation of a TiB <sub>2</sub> -promoted LiBH <sub>4</sub> -MgH <sub>2</sub> composite for reversible hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 2153-8	3.6	29
79	Catalytic decomposition of hydrous hydrazine over NiPt/La <sub>2</sub> O <sub>3</sub> catalyst: A high-performance hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11042-11049	6.7	29
78	Controlled hydrogen generation by reaction of aluminum/sodium hydroxide/sodium stannate solid mixture with water. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 5811-5816	6.7	28
77	Hydrogen in mechanically milled amorphous boron. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 350, 218-221	5.7	28
76	Highly dispersed nickel nitride nanoparticles on nickel nanosheets as an active catalyst for hydrazine electrooxidation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 632-638	13	28
75	Kinetics of catalytic decomposition of hydrous hydrazine over CeO <sub>2</sub> -supported bimetallic NiPt nanocatalysts. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5684-5693	6.7	27
74	Electroless plating of NiB film as a binder-free highly efficient electrocatalyst for hydrazine oxidation. <i>Applied Surface Science</i> , <b>2017</b> , 409, 132-139	6.7	27
73	Palladium decorated porous nickel having enhanced electrocatalytic performance for hydrazine oxidation. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 71-77	8.9	27
72	NiPt/CeO <sub>2</sub> Loaded on Granular Activated Carbon: An Efficient Monolithic Catalyst for Controlled Hydrogen Generation from Hydrous Hydrazine. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9876-9882	8.3	27
71	Advantage of TiF <sub>3</sub> over TiCl <sub>3</sub> as a dopant precursor to improve the thermodynamic property of Na <sub>3</sub> AlH <sub>6</sub> . <i>Scripta Materialia</i> , <b>2007</b> , 56, 361-364	5.6	26
70	Tuning the Surface Composition of Ni/meso-CeO with Iridium as an Efficient Catalyst for Hydrogen Generation from Hydrous Hydrazine. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 4902-4908	4.8	24
69	Enhanced Hydrogen Storage Properties of LiMgBH System Prepared by Reacting Mg(NH <sub>2</sub> ) <sub>2</sub> with Li <sub>3</sub> N. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9944-9949	3.8	24
68	Hydrogen generation from decomposition of hydrous hydrazine over Ni-Ir/CeO <sub>2</sub> catalyst. <i>Progress in Natural Science: Materials International</i> , <b>2017</b> , 27, 121-125	3.6	23
67	The identification of optimal active boron sites for N <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 3910-3917	13	22
66	Understanding of Selective H <sub>2</sub> Generation from Hydrazine Decomposition on Ni(111) Surface. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5443-5451	3.8	22
65	In situ formation of Ti hydride and its catalytic effect in doped NaAlH <sub>4</sub> prepared by milling NaH/Al with metallic Ti powder. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 2943-2948	6.7	22
64	KH+Ti co-doped NaAlH <sub>4</sub> for high-capacity hydrogen storage. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 074905	5.5	22

63	Facet- and defect-engineered Pt/FeO nanocomposite catalyst for catalytic oxidation of airborne formaldehyde under ambient conditions. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 395, 122628	12.8	21
62	Efficient and highly rapid hydrogen release from ball-milled 3NH <sub>3</sub> BH <sub>3</sub> /MMgH <sub>3</sub> (M=Na, K, Rb) mixtures at low temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 4259-4266	6.7	21
61	Mechanically Milling with Off-the-Shelf Magnesium Powder to Promote Hydrogen Release from Ammonia Borane. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 10606-10611	3.8	21
60	Facile solid-phase synthesis of the diammoniate of diborane and its thermal decomposition behavior. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7508-13	3.6	21
59	Improving Hydrogen Storage Performance of NaAlH <sub>4</sub> by Novel Two-Step Milling Method. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4879-4884	3.8	21
58	Improved reversible dehydrogenation of 2LiBH <sub>4</sub> /MgH <sub>2</sub> composite by the controlled formation of transition metal boride. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2146-2151	13	20
57	Hydrogen generation from hydrolysis of solid sodium borohydride promoted by a cobalt-molybdenum-boron catalyst and aluminum powder. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 10845-10850	6.7	20
56	Improved reversible dehydrogenation properties of LiBH <sub>4</sub> /MgH <sub>2</sub> composite by tailoring nanophase structure using activated carbon. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 3710-3716	6.7	19
55	Renewed insight into the promoting mechanism of magnesium hydride on ammonia borane. <i>ChemPhysChem</i> , <b>2010</b> , 11, 2152-7	3.2	19
54	Decomposition behavior of MgH <sub>2</sub> prepared by reaction ball-milling. <i>Scripta Materialia</i> , <b>2000</b> , 43, 83-87	5.6	19
53	Highly dispersed Ni <sub>2</sub> -MoxP nanoparticles on oxygen-defect-rich NiMoO <sub>4</sub> nanosheets as an active electrocatalyst for alkaline hydrogen evolution reaction. <i>Journal of Power Sources</i> , <b>2019</b> , 444, 2273-2281	8.9	18
52	Hydrogen generation from solvolysis of sodium borohydride in ethylene glycol/water mixtures over a wide range of temperature. <i>RSC Advances</i> , <b>2013</b> , 3, 23810	3.7	18
51	Effects of Ni(OH) <sub>2</sub> Morphology on the Catalytic Performance of Pd/Ni(OH) <sub>2</sub> /Ni Foam Hybrid Catalyst toward Ethanol Electrooxidation. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6040-6046	6.1	18
50	A study of degradation phenomenon of NiPt/CeO <sub>2</sub> catalyst towards hydrogen generation from hydrous hydrazine. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 16355-16361	6.7	17
49	Cobalt-Tungsten-Boron as an Active Electrocatalyst for Water Electrolysis. <i>ChemistrySelect</i> , <b>2017</b> , 2, 6187-6193	8.193	17
48	Electron microscopy study of Ti-doped sodium aluminum hydride prepared by mechanical milling NaAlH <sub>4</sub> with Ti powder. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 034914	2.5	17
47	Direct formation of Na <sub>3</sub> AlH <sub>6</sub> by mechanical milling NaAlH <sub>4</sub> with TiF <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2005</b> , 87, 071911	3.4	17
46	Direct hydrogenation of Mg and decomposition behavior of the hydride formed. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 313, 209-213	5.7	17

45	CoN/CoMoO Heterostructure as a Highly Active Electrocatalyst for an Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8337-8343	9.5	17
44	A simple and efficient approach to synthesize amidoborane ammoniates: case study for Mg(NH <sub>2</sub> BH <sub>3</sub> ) <sub>2</sub> (NH <sub>3</sub> ) <sub>3</sub> with unusual coordination structure. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13174		16
43	Dependence of H-storage performance on preparation conditions in TiF <sub>3</sub> doped NaAlH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 421, 217-222	5.7	16
42	Surface phosphorization of hierarchically nanostructured nickel molybdenum oxide derived electrocatalyst for direct hydrazine fuel cell. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 268, 118388	21.8	16
41	High-capacity hydrogen generation from hydrazine monohydrate using a noble-metal-free Ni <sub>10</sub> Mo/NiMo nanocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 15110-15117	6.7	15
40	Investigation of the correlation between the phase structure and activity of NiMo derived electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10338-10345	13.45	14
39	NiPt Nanoparticles Anchored onto Hierarchical Nanoporous N-Doped Carbon as an Efficient Catalyst for Hydrogen Generation from Hydrazine Monohydrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18617-18624	9.5	14
38	Improved reversible dehydrogenation of LiBH <sub>4</sub> /MgH <sub>2</sub> composite by the synergistic effects of Al and MgO. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 2187-2193	6.7	12
37	Preliminary investigation on the catalytic mechanism of TiF <sub>3</sub> additive in MgH <sub>2</sub> /TiF <sub>3</sub> H-storage system. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1779-1786	2.5	12
36	Nanostructured graphite-induced destabilization of LiBH <sub>4</sub> for reversible hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 685, 242-247	5.7	12
35	Study of formation mechanism of Ni-Pt/CeO <sub>2</sub> catalyst for hydrogen generation from hydrous hydrazine. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 787, 1187-1194	5.7	12
34	Li <sub>2</sub> (NH <sub>2</sub> BH <sub>3</sub> )(BH <sub>4</sub> )/LiNH <sub>2</sub> BH <sub>3</sub> : The first metal amidoborane borohydride complex with inseparable amidoborane precursor for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 197-204	6.7	11
33	Characterization of hydrogenated amorphous boron by a combination of infrared absorption spectroscopy and thermal analyses. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 359, L1-L3	5.7	11
32	Rapidly Releasing over 9 wt % of H <sub>2</sub> from NH <sub>3</sub> BH <sub>3</sub> /Mg or NH <sub>3</sub> BH <sub>3</sub> /MgH <sub>2</sub> Composites around 85 °C. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 18386-18393	3.8	10
31	Enhanced H-storage property in LiCoBH <sub>4</sub> system by promoting ion migration. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 466, L1-L4	5.7	10
30	A study of the mechanically milled h-BN-H system. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 78, 1235-1239	2.6	10
29	Noble-Metal-Free Ni-W-O-Derived Catalysts for High-Capacity Hydrogen Production from Hydrazine Monohydrate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8,	8.3	9
28	Hierarchical Nanostructured Pd/Co <sub>3</sub> N-Ni <sub>3</sub> N as an Efficient Catalyst for Ethanol Electrooxidation in Alkaline Media. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901875	4.6	9



27	Unexpected Dehydrogenation Behaviors of the 2LiBH <sub>4</sub> /MgH <sub>2</sub> Composite Confined in a Mesoporous Carbon Scaffold. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26447-26453	3.8	9
26	Improved reversible dehydrogenation properties of 2LiBH <sub>4</sub> /MgH <sub>2</sub> composite by milling with graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 13369-13374	6.7	9
25	The effect of complex halides and binary halides on hydrogen release for the 2LiBH <sub>4</sub> :1MgH <sub>2</sub> system. <i>Faraday Discussions</i> , <b>2011</b> , 151, 133-41; discussion 199-212	3.6	9
24	Effect of Li <sub>3</sub> N additive on the hydrogen storage properties of Li-Mg-N-H system. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 1936-1942	2.5	9
23	Intrinsically Synergistic Active Centers Coupled with Surface Metal Doping To Facilitate Alkaline Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 24220-24224	3.8	8
22	Combined Usage of Sodium Borohydride and Aluminum Powder for High-performance Hydrogen Generation. <i>Fuel Cells</i> , <b>2011</b> , 11, 424-430	2.9	8
21	Hierarchically Nanostructured Nickel/Cobalt Alloy Supported on Nickel Foam as a Highly Efficient Electrocatalyst for Hydrazine Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16583-16590	8.3	8
20	Bismuth hollow nanospheres for efficient electrosynthesis of ammonia under ambient conditions. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 830, 154668	5.7	7
19	Superior low-temperature hydrogen release from the ball-milled NH <sub>3</sub> BH <sub>3</sub> /LiNH <sub>2</sub> /LiBH <sub>4</sub> composite. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 4648-4653	6.7	6
18	Carbon-coated cobalt molybdenum oxide as a high-performance electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 23101-23108	6.7	6
17	A core-shell structured CoMoO <sub>4</sub> /HO@CoFeOOH nanocatalyst for electrochemical evolution of oxygen. <i>Electrochimica Acta</i> , <b>2020</b> , 345, 136125-136125	6.7	4
16	Hierarchically nanostructured (Ni,Co)phosphides for hydrazine electrooxidation. <i>Electrochimica Acta</i> , <b>2021</b> , 387, 138492	6.7	4
15	Engineering oxygen vacancies via amorphization in conjunction with W-doping as an approach to boosting catalytic properties of Pt/Fe-W-O for formaldehyde oxidation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 416, 126224	12.8	4
14	Identification of Active Sites in HCHO Oxidation over TiO <sub>2</sub> -Supported Pt Catalysts. <i>ACS Catalysis</i> , <b>2022</b> , 12, 5565-5573	13.1	4
13	Linear scaling relations for N <sub>2</sub> H <sub>4</sub> decomposition over transition metal catalysts. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 16114-16121	6.7	3
12	Direct hydrogenation of Mg under the action of FeTi <sub>1.2</sub> (amorphous) and mechanical driving force. <i>Journal of Materials Science Letters</i> , <b>2001</b> , 20, 753-754		3
11	Supported [email protected]2P Core/Shell Nanotube Arrays on Ni Foam for Hydrazine Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 4564-4570	8.3	3
10	Free-standing Pt-Ni nanowires catalyst for H <sub>2</sub> generation from hydrous hydrazine. <i>Chemical Communications</i> , <b>2021</b> , 57, 623-626	5.8	3

9	Hierarchical Nanostructured Co-Mo-B/CoMoO Amorphous Composite for the Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 42605-42612	9.5	3
8	Hierarchically Nanostructured Palladium/Cobalt Carbonate Hydroxide Nanocomposite as an Efficient Catalyst for Ethanol Electro-oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 10840-10846	3.9	1
7	Metal-organic frameworks-derived Ni <sub>2</sub> P@C Nanocomposite as a high-performance catalyst for hydrazine electrooxidation. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 902, 163746	5.7	1
6	Hierarchically nanostructured Ni <sub>2</sub> Fe <sub>2</sub> N as an efficient electrocatalyst for hydrazine oxidation reaction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134123	14.7	1
5	An ultra-highly active IrRuB/CeO <sub>2</sub> catalyst for hydrogen generation from hydrazine monohydrate. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18385-18392	13	1
4	Constructing MnO <sub>2</sub> alpha/amorphous heterophase junction by mechanochemically induced phase transformation for formaldehyde oxidation. <i>Applied Surface Science</i> , <b>2022</b> , 589, 152855	6.7	1
3	Facile Synthesis of Highly Dispersed and Well-Alloyed Bimetallic Nanoparticles on Oxide Support.. <i>Small</i> , <b>2022</b> , e2106143	11	0
2	Preliminary study on mechanically milled hydrogenated nanostructured B <sub>4</sub> C. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 363, L3-L6	5.7	
1	Bicontinuous nanoporous Ni-Fe alloy as a highly active catalyst for hydrazine electrooxidation. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 906, 164370	5.7	