

Ping Wang

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.

152
papers

6,203
citations

46
h-index

71
g-index

159
ext. papers

6,852
ext. citations

7.3
avg, IF

5.98
L-index

#	Paper	IF	Citations
152	Metal-organic frameworks-derived Ni ₂ P@C Nanocomposite as a high-performance catalyst for hydrazine electrooxidation. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163746	5.7	1
151	Hierarchically nanostructured Ni ₂ Fe ₂ N as an efficient electrocatalyst for hydrazine oxidation reaction. <i>Chemical Engineering Journal</i> , 2022 , 431, 134123	14.7	1
150	Facile Synthesis of Highly Dispersed and Well-Alloyed Bimetallic Nanoparticles on Oxide Support.. <i>Small</i> , 2022 , e2106143	11	0
149	Bicontinuous nanoporous Ni-Fe alloy as a highly active catalyst for hydrazine electrooxidation. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164370	5.7	
148	Constructing MnO ₂ alpha/amorphous heterophase junction by mechanochemically induced phase transformation for formaldehyde oxidation. <i>Applied Surface Science</i> , 2022 , 589, 152855	6.7	1
147	Identification of Active Sites in HCHO Oxidation over TiO ₂ -Supported Pt Catalysts. <i>ACS Catalysis</i> , 2022 , 12, 5565-5573	13.1	4
146	Supported [email-protected]2P Core-shell Nanotube Arrays on Ni Foam for Hydrazine Electrooxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4564-4570	8.3	3
145	An ultra-highly active IrRuB/CeO ₂ catalyst for hydrogen generation from hydrazine monohydrate. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18385-18392	13	1
144	Free-standing Pt-Ni nanowires catalyst for H generation from hydrous hydrazine. <i>Chemical Communications</i> , 2021 , 57, 623-626	5.8	3
143	CoN/CoMoO Heterostructure as a Highly Active Electrocatalyst for an Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8337-8343	9.5	17
142	Hierarchically nanostructured (Ni,Co)phosphides for hydrazine electrooxidation. <i>Electrochimica Acta</i> , 2021 , 387, 138492	6.7	4
141	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> , 2021 , 416, 126224	12.8	4
140	Hierarchical Nanostructured Co-Mo-B/CoMoO Amorphous Composite for the Alkaline Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42605-42612	9.5	3
139	Hierarchically Nanostructured Palladium/Cobalt Carbonate Hydroxide Nanocomposite as an Efficient Catalyst for Ethanol Electro-oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 10840-10846	3.9	1
138	Facet- and defect-engineered Pt/FeO nanocomposite catalyst for catalytic oxidation of airborne formaldehyde under ambient conditions. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122628	12.8	21
137	Linear scaling relations for N ₂ H ₄ decomposition over transition metal catalysts. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16114-16121	6.7	3
136	Bismuth hollow nanospheres for efficient electrosynthesis of ammonia under ambient conditions. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154668	5.7	7

135	Noble-Metal-Free Ni-W-O-Derived Catalysts for High-Capacity Hydrogen Production from Hydrazine Monohydrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8,	8.3	9
134	Hierarchical Nanostructured Pd/Co ₃ N-Ni ₃ N as an Efficient Catalyst for Ethanol Electrooxidation in Alkaline Media. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901875	4.6	9
133	The identification of optimal active boron sites for N ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3910-3917	13	22
132	A core-shell structured CoMoO ₄ @Ni(OH) ₂ nanocatalyst for electrochemical evolution of oxygen. <i>Electrochimica Acta</i> , 2020 , 345, 136125-136125	6.7	4
131	Surface phosphorization of hierarchically nanostructured nickel molybdenum oxide derived electrocatalyst for direct hydrazine fuel cell. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118388	21.8	16
130	Highly dispersed nickel nitride nanoparticles on nickel nanosheets as an active catalyst for hydrazine electrooxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 632-638	13	28
129	Hierarchically Nanostructured Nickel-Cobalt Alloy Supported on Nickel Foam as a Highly Efficient Electrocatalyst for Hydrazine Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16583-16590	8.3	8
128	NiPt Nanoparticles Anchored onto Hierarchical Nanoporous N-Doped Carbon as an Efficient Catalyst for Hydrogen Generation from Hydrazine Monohydrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18617-18624	9.5	14
127	Intrinsically Synergistic Active Centers Coupled with Surface Metal Doping To Facilitate Alkaline Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 24220-24224	3.8	8
126	High-capacity hydrogen generation from hydrazine monohydrate using a noble-metal-free Ni ₁₀ Mo/NiMoO ₄ nanocatalyst. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15110-15117	6.7	15
125	Investigation of the correlation between the phase structure and activity of NiMoO ₄ derived electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10338-10345	13	14
124	Pt-embedded in monolayer g-C ₃ N ₄ as a promising single-atom electrocatalyst for ammonia synthesis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11908-11914	13	45
123	Highly dispersed Ni ₂ -MoxP nanoparticles on oxygen-defect-rich NiMoO ₄ nanosheets as an active electrocatalyst for alkaline hydrogen evolution reaction. <i>Journal of Power Sources</i> , 2019 , 44, 2273-2281	8.9	18
122	Study of formation mechanism of Ni-Pt/CeO ₂ catalyst for hydrogen generation from hydrous hydrazine. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 1187-1194	5.7	12
121	In situ grown Ni phosphide nanowire array on Ni foam as a high-performance catalyst for hydrazine electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 292-298	21.8	53
120	Palladium decorated porous nickel having enhanced electrocatalytic performance for hydrazine oxidation. <i>Journal of Power Sources</i> , 2019 , 412, 71-77	8.9	27
119	Understanding of Selective H ₂ Generation from Hydrazine Decomposition on Ni(111) Surface. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5443-5451	3.8	22
118	Cobalt Molybdenum Oxide Derived High-Performance Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 5062-5069	13.1	82

117	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> , 2018 , 24, 4902-4908	4.8	24
116	Study of cobalt boride-derived electrocatalysts for overall water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6076-6087	6.7	56
115	Highly Dispersed Platinum on Honeycomb-like Film as a Synergistic Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2018 , 8, 8866-8872	13.1	93
114	Carbon-coated cobalt molybdenum oxide as a high-performance electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 23101-23108	6.7	6
113	Effects of Ni(OH) ₂ Morphology on the Catalytic Performance of Pd/Ni(OH) ₂ /Ni Foam Hybrid Catalyst toward Ethanol Electrooxidation. <i>ACS Applied Energy Materials</i> , 2018 , 1, 6040-6046	6.1	18
112	NiPt/CeO ₂ Loaded on Granular Activated Carbon: An Efficient Monolithic Catalyst for Controlled Hydrogen Generation from Hydrous Hydrazine. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9876-9882	8.3	27
111	Kinetics of catalytic decomposition of hydrous hydrazine over CeO ₂ -supported bimetallic NiPt nanocatalysts. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5684-5693	6.7	27
110	Hydrogen generation from decomposition of hydrous hydrazine over Ni-Ir/CeO ₂ catalyst. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 121-125	3.6	23
109	Electroless plating of NiB film as a binder-free highly efficient electrocatalyst for hydrazine oxidation. <i>Applied Surface Science</i> , 2017 , 409, 132-139	6.7	27
108	Cobalt nickel boride as an active electrocatalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12379-12384	13	166
107	NiZn Alloy Nanosheets Arrayed on Nickel Foams a Promising Catalyst for Electrooxidation of Hydrazine. <i>ChemElectroChem</i> , 2017 , 4, 1944-1949	4.3	31
106	A study of degradation phenomenon of NiPt/CeO ₂ catalyst towards hydrogen generation from hydrous hydrazine. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16355-16361	6.7	17
105	Cobalt-Tungsten-Boron as an Active Electrocatalyst for Water Electrolysis. <i>ChemistrySelect</i> , 2017 , 2, 6187-6193	8.1	17
104	Rapidly Releasing over 9 wt % of H ₂ from NH ₃ BH ₃ Mg or NH ₃ BH ₃ MgH ₂ Composites around 85 °C. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18386-18393	3.8	10
103	Nanostructured graphite-induced destabilization of LiBH ₄ for reversible hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 242-247	5.7	12
102	Catalytic decomposition of hydrous hydrazine over NiPt/La ₂ O ₃ catalyst: A high-performance hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11042-11049	6.7	29
101	A new reactivation method towards deactivation of honeycomb ceramic monolith supported cobalt molybdenum boron catalyst in hydrolysis of sodium borohydride. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9373-9381	6.7	31
100	Highly efficient Ni@NiPt/La ₂ O ₃ catalyst for hydrogen generation from hydrous hydrazine decomposition: Effect of NiPt surface alloying. <i>Journal of Power Sources</i> , 2015 , 300, 294-300	8.9	40

99	High-performance nickel-platinum nanocatalyst supported on mesoporous alumina for hydrogen generation from hydrous hydrazine. <i>Journal of Power Sources</i> , 2015 , 273, 554-560	8.9	59
98	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> , 2015 , 21, 15439-45	4.8	34
97	Improved reversible dehydrogenation of 2LiBH ₄ /MgH ₂ composite by the controlled formation of transition metal boride. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2146-2151	13	20
96	Unexpected Dehydrogenation Behaviors of the 2LiBH ₄ /MgH ₂ Composite Confined in a Mesoporous Carbon Scaffold. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26447-26453	3.8	9
95	Improved reversible dehydrogenation properties of 2LiBH ₄ /MgH ₂ composite by milling with graphitic carbon nitride. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13369-13374	6.7	9
94	Improved reversible dehydrogenation of LiBH ₄ /MgH ₂ composite by the synergistic effects of Al and MgO. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2187-2193	6.7	12
93	A cost-effective NiMoB/Al(OH) ₃ catalyst for hydrogen generation from decomposition of alkaline hydrous hydrazine solution. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11623	13	76
92	Superior low-temperature hydrogen release from the ball-milled NH ₃ BH ₃ /NH ₂ BH ₄ composite. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 4648-4653	6.7	6
91	A novel three-step method for preparation of a TiB ₂ -promoted LiBH ₄ -MgH ₂ composite for reversible hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2153-8	3.6	29
90	Evaluation of a cobalt-molybdenum-boron catalyst for hydrogen generation of alkaline sodium borohydride solution-aluminum powder system. <i>Journal of Power Sources</i> , 2013 , 224, 304-311	8.9	36
89	Improved reversible dehydrogenation properties of LiBH ₄ /MgH ₂ composite by tailoring nanophase structure using activated carbon. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 3710-3716	6.7	19
88	Synthesis, formation mechanism, and dehydrogenation properties of the long-sought Mg(NH ₂ BH ₃) ₂ compound. <i>Energy and Environmental Science</i> , 2013 , 6, 1018	35.4	36
87	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> , 2013 , 38, 10845-10850	6.7	20
86	Li ₂ (NH ₂ BH ₃)(BH ₄)/LiNH ₂ BH ₃ : The first metal amidoborane borohydride complex with inseparable amidoborane precursor for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 197-204	6.7	11
85	Hydrogen generation from solvolysis of sodium borohydride in ethylene glycol-water mixtures over a wide range of temperature. <i>RSC Advances</i> , 2013 , 3, 23810	3.7	18
84	A simple and efficient approach to synthesize amidoborane ammoniates: case study for Mg(NH ₂ BH ₃) ₂ (NH ₃) ₃ with unusual coordination structure. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13174		16
83	Solid-state thermolysis of ammonia borane and related materials for high-capacity hydrogen storage. <i>Dalton Transactions</i> , 2012 , 41, 4296-302	4.3	64
82	LiBH ₄ /NH ₃ BH ₃ : A new lithium borohydride ammonia borane compound with a novel structure and favorable hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 10750-10757	6.7	32

81	Efficient and highly rapid hydrogen release from ball-milled 3NH ₃ BH ₃ /MMgH ₃ (M=Na, K, Rb) mixtures at low temperatures. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4259-4266	6.7	21
80	Controlled hydrogen generation by reaction of aluminum/sodium hydroxide/sodium stannate solid mixture with water. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5811-5816	6.7	28
79	Reaction of aluminium with alkaline sodium stannate solution as a controlled source of hydrogen. <i>Energy and Environmental Science</i> , 2011 , 4, 2206	35.4	60
78	Combined formation and decomposition of dual-metal amidoborane NaMg(NH ₂ BH ₃) ₃ for high-performance hydrogen storage. <i>Dalton Transactions</i> , 2011 , 40, 3799-801	4.3	49
77	Combined Usage of Sodium Borohydride and Aluminum Powder for High-performance Hydrogen Generation. <i>Fuel Cells</i> , 2011 , 11, 424-430	2.9	8
76	Effect of trapped hydrogen on the induction period of cobalt/nickel foam catalyst in catalytic hydrolysis reaction of sodium borohydride. <i>Catalysis Today</i> , 2011 , 170, 27-32	5.3	39
75	Hydrogen generation from coupling reactions of sodium borohydride and aluminum powder with aqueous solution of cobalt chloride. <i>Catalysis Today</i> , 2011 , 170, 50-55	5.3	40
74	Facile solid-phase synthesis of the diammoniate of diborane and its thermal decomposition behavior. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7508-13	3.6	21
73	Promotion of hydrogen release from ammonia borane with magnesium nitride. <i>Dalton Transactions</i> , 2011 , 40, 6469-74	4.3	32
72	The effect of complex halides and binary halides on hydrogen release for the 2LiBH ₄ :1MgH ₂ system. <i>Faraday Discussions</i> , 2011 , 151, 133-41; discussion 199-212	3.6	9
71	Combined Effects of Functional Cation and Anion on the Reversible Dehydrogenation of LiBH ₄ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11839-11845	3.8	47
70	Mechanically Milling with Off-the-Shelf Magnesium Powder to Promote Hydrogen Release from Ammonia Borane. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10606-10611	3.8	21
69	Formation and Hydrogen Storage Properties of Dual-Cation (Li, Ca) Borohydride. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22736-22741	3.8	32
68	Unexpected dehydrogenation behavior of LiBH ₄ /Mg(BH ₄) ₂ mixture associated with the in situ formation of dual-cation borohydride. <i>Journal of Alloys and Compounds</i> , 2010 , 491, L1-L4	5.7	53
67	Hydrogen bubbles dynamic template preparation of a porous Fe/Co/B/Ni foam catalyst for hydrogen generation from hydrolysis of alkaline sodium borohydride solution. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 359-365	5.7	76
66	Renewed insight into the promoting mechanism of magnesium hydride on ammonia borane. <i>ChemPhysChem</i> , 2010 , 11, 2152-7	3.2	19
65	Promoted hydrogen generation from ammonia borane aqueous solution using cobalt/nickel foam catalyst. <i>Journal of Power Sources</i> , 2010 , 195, 307-312	8.9	89
64	Hydrogen generation from sodium borohydride solution using a ruthenium supported on graphite catalyst. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3023-3028	6.7	143

63	Hydrogen sorption kinetics of MgH ₂ catalyzed with titanium compounds. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3046-3050	6.7	70
62	Effect of carbon addition on hydrogen storage behaviors of LiMgBH ₄ system. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 3072-3075	6.7	30
61	Improved hydrogen storage properties of LiBH ₄ by mechanical milling with various carbon additives. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8247-8252	6.7	44
60	Ruthenium nanoparticles immobilized in montmorillonite used as catalyst for methanolysis of ammonia borane. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10317-10323	6.7	64
59	Effect of Li ₃ N additive on the hydrogen storage properties of Li-Mg-N-H system. <i>Journal of Materials Research</i> , 2009 , 24, 1936-1942	2.5	9
58	Lithium-Catalyzed Dehydrogenation of Ammonia Borane within Mesoporous Carbon Framework for Chemical Hydrogen Storage. <i>Advanced Functional Materials</i> , 2009 , 19, 265-271	15.6	148
57	Synthesis and plasmon-induced charge-transfer properties of monodisperse gold-doped titania microspheres. <i>Chemistry - A European Journal</i> , 2009 , 15, 4366-72	4.8	98
56	A comparative study of the structural, electronic, and vibrational properties of NH ₃ BH ₃ and LiNH ₂ BH ₃ : theory and experiment. <i>ChemPhysChem</i> , 2009 , 10, 1825-33	3.2	37
55	Superior catalytic effect of TiF ₃ over TiCl ₃ in improving the hydrogen sorption kinetics of MgH ₂ : Catalytic role of fluorine anion. <i>Acta Materialia</i> , 2009 , 57, 2250-2258	8.4	125
54	Enhanced Hydrogen Storage Properties of LiMgBH ₄ System Prepared by Reacting Mg(NH ₂) ₂ with Li ₃ N. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9944-9949	3.8	24
53	Catalytically enhanced dehydrogenation of LiMgBH ₄ hydrogen storage material by transition metal nitrides. <i>Journal of Alloys and Compounds</i> , 2009 , 468, L21-L24	5.7	31
52	Promoted hydrogen release from ammonia borane by mechanically milling with magnesium hydride: a new destabilizing approach. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2507-13	3.6	64
51	Improved hydrogen storage property of LiMgBH ₄ system by milling with titanium trifluoride. <i>Energy and Environmental Science</i> , 2009 , 2, 120-123	35.4	52
50	In situ formation and rapid decomposition of Ti(BH ₄) ₃ by mechanical milling LiBH ₄ with TiF ₃ . <i>Applied Physics Letters</i> , 2009 , 94, 044104	3.4	41
49	Reversible dehydrogenation of LiBH ₄ catalyzed by as-prepared single-walled carbon nanotubes. <i>Scripta Materialia</i> , 2008 , 58, 922-925	5.6	31
48	Hydrogen-rich boron-containing materials for hydrogen storage. <i>Dalton Transactions</i> , 2008 , 5400-13	4.3	154
47	Hydrogen sorption kinetics of MgH ₂ catalyzed with NbF ₅ . <i>Journal of Alloys and Compounds</i> , 2008 , 453, 138-142	5.7	73
46	Enhanced H-storage property in LiCoBH ₄ system by promoting ion migration. <i>Journal of Alloys and Compounds</i> , 2008 , 466, L1-L4	5.7	10

45	Improved Reversible Dehydrogenation of Lithium Borohydride by Milling with As-Prepared Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17023-17029	3.8	67
44	New Insights into Catalytic Hydrolysis Kinetics of Sodium Borohydride from Michaelis-Menten Model. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15886-15892	3.8	41
43	Catalytically Enhanced Hydrogen Storage Properties of Mg(NH ₂) ₂ + 2LiH Material by Graphite-Supported Ru Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18280-18285	3.8	38
42	Ammonia borane destabilized by lithium hydride: an advanced on-board hydrogen storage material. <i>Advanced Materials</i> , 2008 , 20, 2756-9	2.4	172
41	Amorphous cobalt-Boron/nickel foam as an effective catalyst for hydrogen generation from alkaline sodium borohydride solution. <i>Journal of Power Sources</i> , 2008 , 177, 17-23	8.9	169
40	Thermodynamically tuning LiBH ₄ by fluorine anion doping for hydrogen storage: A density functional study. <i>Chemical Physics Letters</i> , 2008 , 450, 318-321	2.5	86
39	Kinetic- and thermodynamic-based improvements of lithium borohydride incorporated into activated carbon. <i>Acta Materialia</i> , 2008 , 56, 6257-6263	8.4	124
38	High-performance cobalt-tungsten-Boron catalyst supported on Ni foam for hydrogen generation from alkaline sodium borohydride solution. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4405-4412	6.7	115
37	Effect of SWNTs on the reversible hydrogen storage properties of LiBH ₄ /MgH ₂ composite. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5611-5616	6.7	40
36	Functional anion concept: effect of fluorine anion on hydrogen storage of sodium alanate. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1499-502	3.6	74
35	Metallic and carbon nanotube-catalyzed coupling of hydrogenation in magnesium. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15650-4	16.4	114
34	Improving Hydrogen Storage Performance of NaAlH ₄ by Novel Two-Step Milling Method. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4879-4884	3.8	21
33	In situ formation of Ti hydride and its catalytic effect in doped NaAlH ₄ prepared by milling NaH/Al with metallic Ti powder. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 2943-2948	6.7	22
32	Advantage of TiF ₃ over TiCl ₃ as a dopant precursor to improve the thermodynamic property of Na ₃ AlH ₆ . <i>Scripta Materialia</i> , 2007 , 56, 361-364	5.6	26
31	Enhanced hydrogen storage properties of MgH ₂ co-catalyzed with NbF ₅ and single-walled carbon nanotubes. <i>Scripta Materialia</i> , 2007 , 56, 765-768	5.6	40
30	Reversible hydrogen storage in LiBH ₄ destabilized by milling with Al. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 963-966	2.6	118
29	Improved hydrogen storage performance of LiMgNi ₃ materials by optimizing composition and adding single-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1262-1268	6.7	52
28	Preliminary investigation on the catalytic mechanism of TiF ₃ additive in MgH ₂ /TiF ₃ H-storage system. <i>Journal of Materials Research</i> , 2007 , 22, 1779-1786	2.5	12

27	Improving hydrogen sorption kinetics of MgH ₂ by mechanical milling with TiF ₃ . <i>Journal of Alloys and Compounds</i> , 2007 , 432, L1-L4	5.7	56
26	Microporous metal-organic framework constructed from heptanuclear zinc carboxylate secondary building units. <i>Chemistry - A European Journal</i> , 2006 , 12, 3754-8	4.8	156
25	Effect of carbon/noncarbon addition on hydrogen storage behaviors of magnesium hydride. <i>Journal of Alloys and Compounds</i> , 2006 , 414, 259-264	5.7	136
24	Hydrogen storage properties of MgH ₂ /SWNT composite prepared by ball milling. <i>Journal of Alloys and Compounds</i> , 2006 , 420, 278-282	5.7	109
23	Dependence of H-storage performance on preparation conditions in TiF ₃ doped NaAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2006 , 421, 217-222	5.7	16
22	Catalytic effect of Al ₃ Ti on the reversible dehydrogenation of NaAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2006 , 424, 365-369	5.7	36
21	Electron microscopy study of Ti-doped sodium aluminum hydride prepared by mechanical milling NaH/Al with Ti powder. <i>Journal of Applied Physics</i> , 2006 , 100, 034914	2.5	17
20	Structure and hydrogen storage property of ball-milled LiNH ₂ /MgH ₂ LiNH ₂ /MgH ₂ mixture. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1236-1240	6.7	52
19	Exploration of the nature of active Ti species in metallic Ti-doped NaAlH ₄ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20131-6	3.4	79
18	Effects of SWNT and metallic catalyst on hydrogen absorption/desorption performance of MgH ₂ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22217-21	3.4	82
17	Improved hydrogen storage of TiF ₃ -doped NaAlH ₄ . <i>ChemPhysChem</i> , 2005 , 6, 2488-91	3.2	62
16	KH+Ti co-doped NaAlH ₄ for high-capacity hydrogen storage. <i>Journal of Applied Physics</i> , 2005 , 98, 074905	2.5	22
15	Direct formation of Na ₃ AlH ₆ by mechanical milling NaH/Al with TiF ₃ . <i>Applied Physics Letters</i> , 2005 , 87, 071911	3.4	17
14	A study of the mechanically milled h-BN-H system. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 1235-1239	2.6	10
13	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> , 2004 , 108, 15827-15829	3.4	84
12	Method for preparing Ti-doped NaAlH ₄ using Ti powder: observation of an unusual reversible dehydrogenation behavior. <i>Journal of Alloys and Compounds</i> , 2004 , 379, 99-102	5.7	61
11	Preliminary study on mechanically milled hydrogenated nanostructured B ₄ C. <i>Journal of Alloys and Compounds</i> , 2004 , 363, L3-L6	5.7	
10	Hydrogen in mechanically milled amorphous boron. <i>Journal of Alloys and Compounds</i> , 2003 , 350, 218-221	5.7	28

9	Characterization of hydrogenated amorphous boron by a combination of infrared absorption spectroscopy and thermal analyses. <i>Journal of Alloys and Compounds</i> , 2003 , 359, L1-L3	5-7	11
8	Hydrogen in mechanically prepared nanostructured h-BN: a critical comparison with that in nanostructured graphite. <i>Applied Physics Letters</i> , 2002 , 80, 318-320	3-4	87
7	Mg ₅₀ FeTi _{1.2} (amorphous) composite for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2002 , 334, 243-248	5-7	34
6	Structural and hydriding properties of composite Mg ₅₀ ZrFe _{1.4} Cr _{0.6} . <i>Acta Materialia</i> , 2001 , 49, 921-926	8-4	35
5	Direct hydrogenation of Mg under the action of FeTi _{1.2} (amorphous) and mechanical driving force. <i>Journal of Materials Science Letters</i> , 2001 , 20, 753-754		3
4	Decomposition behavior of MgH ₂ prepared by reaction ball-milling. <i>Scripta Materialia</i> , 2000 , 43, 83-87	5-6	19
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