

# Yoshitsugu Kojima

## List of Publications by Citations

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147  
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151  
ext. papers

4,420  
ext. citations

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5.81  
L-index

#	Paper	IF	Citations
147	Materials for hydrogen-based energy storage [past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 827, 153548	5.7	264
146	IR characterizations of lithium imide and amide. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 395, 236-239	5.7	141
145	Development of 10 kW-scale hydrogen generator using chemical hydride. <i>Journal of Power Sources</i> , <b>2004</b> , 125, 22-26	8.9	140
144	Hydrogen generation by hydrolysis reaction of lithium borohydride. <i>International Journal of Hydrogen Energy</i> , <b>2004</b> , 29, 1213-1217	6.7	113
143	Hydrogen storage materials for hydrogen and energy carriers. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 18179-18192	6.7	100
142	Development of vanadium based hydrogen storage material: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 72, 791-800	16.2	99
141	Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 7746-7767	6.7	87
140	Development of metal hydride with high dissociation pressure. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 419, 256-261	5.7	81
139	Hydrogen absorption of catalyzed magnesium below room temperature. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 13728-13733	6.7	80
138	Dehydrating reactions of mixed complex hydrides. <i>Journal of Power Sources</i> , <b>2006</b> , 155, 447-455	8.9	76
137	Magnesium-based nano-composite materials for hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 424, 294-298	5.7	73
136	Thermal analysis on the LiMgBH <sub>4</sub> systems. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 446-447, 306-309	5.7	68
135	Hydrogen adsorption and desorption by carbon materials. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 421, 204-208	5.7	67
134	Hydrogen generation from lithium borohydride solution over nano-sized platinum dispersed on LiCoO <sub>2</sub> . <i>Journal of Power Sources</i> , <b>2006</b> , 155, 325-328	8.9	60
133	Hydrogen absorption and desorption by the Li-Al-N-H system. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 9632-6	3.4	57
132	X-ray Absorption Spectroscopic Study on Valence State and Local Atomic Structure of Transition Metal Oxides Doped in MgH <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13450-13455	3.8	55
131	Ammonia, a Switch for Controlling High Ionic Conductivity in Lithium Borohydride Ammoniates. <i>Joule</i> , <b>2018</b> , 2, 1522-1533	27.8	52

130	Metal hydride-based materials towards high performance negative electrodes for all-solid-state lithium-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 9773-6	5.8	51
129	Comparative Study of Structural Changes in NH <sub>3</sub> BH <sub>3</sub> , LiNH <sub>2</sub> BH <sub>3</sub> , and KNH <sub>2</sub> BH <sub>3</sub> During Dehydrogenation Process. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5957-5964	3.8	51
128	Hydrogen storage of metal nitrides by a mechanochemical reaction. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 81-87	8.9	51
127	Recyclable hydrogen storage system composed of ammonia and alkali metal hydride. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 9760-9764	6.7	49
126	Surface modification of MgH <sub>2</sub> by ZrCl <sub>4</sub> to tailor the reversible hydrogen storage performance. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 6152-6159	6.7	46
125	Structure and catalytic properties of Ni/MWCNTs and Ni/AC catalysts for hydrogen production via ammonia decomposition. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 277-287	6.7	46
124	Hydrogen release of catalyzed lithium aluminum hydride by a mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 462, 275-278	5.7	44
123	Highly purified hydrogen production from ammonia for PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 14486-14492	6.7	44
122	How does TiF <sub>4</sub> affect the decomposition of MgH <sub>2</sub> and its complex variants? [An XPS investigation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15543-15551	13	43
121	Solid state NMR study on the thermal decomposition pathway of sodium amidoborane NaNH <sub>2</sub> BH <sub>3</sub> . <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2609		43
120	Superior Hydrogen Exchange Effect in the MgH <sub>2</sub> -LiBH <sub>4</sub> System. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13132-13135	3.8	41
119	Anode properties of magnesium hydride catalyzed with niobium oxide for an all solid-state lithium-ion battery. <i>Chemical Communications</i> , <b>2013</b> , 49, 7174-6	5.8	40
118	Thermal decomposition of alkaline-earth metal hydride and ammonia borane composites. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12405-12409	6.7	39
117	Hydrogen storage of metal nitride by a mechanochemical reaction. <i>Chemical Communications</i> , <b>2004</b> , 2219-8	9.8	39
116	Enhancement of hydrogen desorption kinetics in magnesium hydride by doping with lithium metatitanate. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 711, 400-405	5.7	38
115	Review on Ammonia Absorption Materials: Metal Hydrides, Halides, and Borohydrides. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 232-242	6.1	38
114	Molecular hydrogen carrier with activated nanohydride and ammonia. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 2185-2190	2.5	37
113	Phase and morphology evolution study of ball milled Mg-Li hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 7070-7076	6.7	35

112	Hydrogen generation by electrolysis of liquid ammonia. <i>Chemical Communications</i> , <b>2010</b> , 46, 7775-7	5.8	35
111	Bulk-Type All-Solid-State Lithium-Ion Batteries: Remarkable Performances of a Carbon Nanofiber-Supported MgH Composite Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2261-2266	9.5	34
110	Electron Spin Resonance Investigation of Hydrogen Absorption in Ball-Milled Graphite. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5409-5416	3.8	34
109	Thermodynamics and kinetics of nano-engineered Mg-MgH <sub>2</sub> system for reversible hydrogen storage application. <i>Thermochimica Acta</i> , <b>2017</b> , 652, 103-108	2.9	33
108	Correlation between kinetics and chemical bonding state of catalyst surface in catalyzed magnesium hydride. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 12319-12323	6.7	32
107	High compressed hydrogen production via direct electrolysis of liquid ammonia. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 14529-14534	6.7	31
106	Study on the thermal decomposition of NaBH <sub>4</sub> catalyzed by ZrCl <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 22432-22437	6.7	30
105	Tuning catalytic performances of cobalt catalysts for clean hydrogen generation via variation of the type of carbon support and catalyst post-treatment temperature. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 17573-17582	6.7	30
104	Activation of Ammonia Borane Hybridized with Alkaline Metal Hydrides: A Low-Temperature and High-Purity Hydrogen Generation Material. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 14662-14664	3.8	29
103	Hydrogen adsorption and desorption by potassium-doped superactivated carbon. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4113-4115	3.4	28
102	Destabilization of LiH by Li Insertion into Ge. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5650-5657	3.8	26
101	Improvement of hydrogen desorption kinetics in the LiH-NH <sub>3</sub> system by addition of KH. <i>Chemical Communications</i> , <b>2011</b> , 47, 12227-9	5.8	26
100	Synthesis and characterization of lithium-carbon compounds for hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 719-723	5.7	25
99	Thermodynamics on Ammonia Absorption of Metal Halides and Borohydrides. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18412-18416	3.8	24
98	Direct formation of LiAlH <sub>4</sub> by a mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 441, 189-191	5.7	24
97	Study of cyclic performance of V-Ti-Cr alloys employed for hydrogen compressor. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 2881-2889	6.7	23
96	The reaction process of hydrogen absorption and desorption on the nanocomposite of hydrogenated graphite and lithium hydride. <i>Nanotechnology</i> , <b>2009</b> , 20, 204021	3.4	23
95	Evaluation of enthalpy change due to hydrogen desorption for lithium amide/imide system by differential scanning calorimetry. <i>Thermochimica Acta</i> , <b>2008</b> , 468, 35-38	2.9	23

94	Hybrid nickel-metal hydride/hydrogen battery. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 4263-4270	6.7	22
93	Low-temperature water-splitting by sodium redox reaction. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 17709-17714	6.7	22
92	Hydrogen storage properties of lithium silicon alloy synthesized by mechanical alloying. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 504-507	8.9	22
91	Thermodynamic properties of lithium amide under hydrogen pressure determined by Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 023527	2.5	21
90	Micro-alloyed Mg <sub>2</sub> Ni for better performance as negative electrode of Ni-MH battery and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5220-5226	6.7	20
89	Improved hydrogen release from magnesium borohydride by ZrCl <sub>4</sub> additive. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 22342-22347	6.7	20
88	Electrochemical charge and discharge properties for the formation of magnesium and aluminum hydrides. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S584-S587	5.7	20
87	Thermodynamic properties of metal amides determined by ammonia pressure-composition isotherms. <i>Journal of Chemical Thermodynamics</i> , <b>2010</b> , 42, 140-143	2.9	20
86	Characterization of titanium based catalysts in the Li-N-H hydrogen storage system by X-ray absorption spectroscopy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 446-447, 360-362	5.7	20
85	Electrochemical Performance of Titanium Hydride for Bulk-Type All-Solid-State Lithium-Ion Batteries. <i>Materials Transactions</i> , <b>2016</b> , 57, 755-757	1.3	20
84	Synthesis and characterization of magnesium-carbon compounds for hydrogen storage. <i>Carbon</i> , <b>2013</b> , 56, 50-55	10.4	19
83	Development of Mg Li B based advanced material for onboard hydrogen storage solution. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3963-3970	6.7	19
82	A new synthesis route of ammonia production through hydrolysis of metal Nitrides. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 24897-24903	6.7	19
81	Activation on Ammonia Absorbing Reaction for Magnesium Chloride. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 26296-26302	3.8	19
80	Hydrogen desorption reactions of Li-N-H hydrogen storage system: Estimation of activation free energy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 439, 358-362	5.7	19
79	Doping effect of Nb species on hydrogen desorption properties of AlH <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 734, 55-59	5.7	19
78	Nano-engineered Mg-MgH <sub>2</sub> system for solar thermal energy storage. <i>Solar Energy</i> , <b>2017</b> , 150, 532-537	6.8	18
77	Catalytic hydrolysis of sodium borohydride on Co catalysts. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 2078-2090	4.5	18

- 76 Catalytic effect of  $\text{ATiO}_3$  (A = Sr, Ba) on ammonia decomposition during mechanical milling. *Chemical Communications*, **2010**, 46, 3982-4 5.8 18
- 75 Ammonia storage materials for nitrogen recycling hydrogen and energy carriers. *International Journal of Hydrogen Energy*, **2020**, 45, 10233-10246 6.7 17
- 74 Dehydrogenation process of  $\text{AlH}_3$  observed by TEM. *Journal of Alloys and Compounds*, **2013**, 580, S163-S166 5.6 17
- 73 Hydrogen desorption processes in  $\text{LiMgNiH}$  systems. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2234-2236 3.9 17
- 72 Catalytic effect of bis (cyclopentadienyl) nickel II on the improvement of the hydrogenation-dehydrogenation of Mg-MgH<sub>2</sub> system. *International Journal of Hydrogen Energy*, **2017**, 42, 17178-17183 6.7 16
- 71 Improvement of reaction kinetics by metal chloride on ammonia and lithium hydride system. *International Journal of Hydrogen Energy*, **2012**, 37, 16025-16030 6.7 16
- 70 Characterization of hydrogen absorption/desorption states on lithium-carbon-hydrogen system by neutron diffraction. *Journal of Applied Physics*, **2008**, 104, 053511 2.5 16
- 69 Hydrogen desorption properties of  $\text{LiBNiH}$  system synthesized by mechanical milling. *International Journal of Hydrogen Energy*, **2008**, 33, 3128-3131 6.7 16
- 68 Synergic effect of  $\text{ZrCl}_4$  on thermal dehydrogenation kinetics of  $\text{KBH}_4$ . *Journal of Alloys and Compounds*, **2017**, 718, 134-138 5.7 15
- 67 Anode properties of  $\text{Al}_2\text{O}_3$ -added  $\text{MgH}_2$  for all-solid-state lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2015**, 19, 3639-3644 2.6 15
- 66 Formation of NaCl-type monodeuteride  $\text{LaD}$  by the disproportionation reaction of  $\text{LaD}_2$ . *Physical Review Letters*, **2012**, 108, 205501 7.4 15
- 65 Tailoring the Thermodynamics and Kinetics of  $\text{MgNi}$  Alloy for a  $\text{MgH}_2$ -Based Anode for Lithium-Ion Batteries. *Energy Technology*, **2017**, 5, 1546-1551 3.5 14
- 64 Synthesis of nickel nanoparticles with excellent thermal stability in micropores of zeolite. *International Journal of Hydrogen Energy*, **2013**, 38, 13579-13586 6.7 13
- 63 Catalytic modification in dehydrogenation properties of  $\text{KSiH}_3$ . *Physical Chemistry Chemical Physics*, **2014**, 16, 26163-7 3.6 13
- 62 Anomalous hydrogen absorption on non-stoichiometric iron-carbon compound. *Journal of Alloys and Compounds*, **2010**, 507, 547-550 5.7 13
- 61 Ammonia Desorption Property and Structural Changes of  $\text{LiAl}(\text{NH}_2)_4$  on Thermal Decomposition. *Journal of Physical Chemistry C*, **2011**, 115, 10284-10291 3.8 13
- 60 Reaction between magnesium ammine complex compound and lithium hydride. *International Journal of Hydrogen Energy*, **2010**, 35, 2058-2062 6.7 13
- 59 Thermal decomposition of sodium amide. *International Journal of Hydrogen Energy*, **2017**, 42, 5213-5219 6.7 12

58	Correlation between electrochemical behavior and hydrogen storage properties of Li <sub>3</sub> N system. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, S211-S215	5-7	12
57	Structural and thermal gas desorption properties of metal aluminum amides. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 297-301	5-7	12
56	Quantity of NH <sub>3</sub> desorption from the Li <sub>3</sub> N-H <sub>2</sub> hydrogen storage system examined by Fourier transform infrared spectroscopy. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 446-447, 342-344	5-7	12
55	Local Structural Analysis on Decomposition Process of LiAl(ND <sub>2</sub> ) <sub>4</sub> . <i>Materials Transactions</i> , <b>2014</b> , 55, 1129-1133	1-3	11
54	Liquid ammonia electrolysis by platinum electrodes. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S891-S894	5-7	11
53	Catalytic Effect of Ti <sub>3</sub> Al <sub>5</sub> Compounds in the Li <sub>3</sub> N-H <sub>2</sub> System on Hydrogen Desorption Properties. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 589-593	3-8	11
52	Compressed hydrogen production via reaction between liquid ammonia and alkali metal hydride. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8217-8220	6-7	11
51	Identifying catalyst in Li-N-H system by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 013101	3-4	11
50	Ammonia Synthesis via Non-Equilibrium Reaction of Lithium Nitride in Hydrogen Flow Condition. <i>Materials Transactions</i> , <b>2015</b> , 56, 410-414	1-3	10
49	Remarkably improved dehydrogenation of ZrCl <sub>4</sub> doped NaAlH <sub>4</sub> for hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 15299-15307	6-7	9
48	Metal aluminum amides for hydrogen storage [Crystal structure studies. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 16938-16947	6-7	9
47	Catalysis of Lithium Chloride and Alkali Metal Borohydrides on Hydrogen Generation of Ammonia and Lithium Hydride System. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19922-19927	3-8	9
46	Crystal structure and dynamics of Mg(ND <sub>3</sub> ) <sub>6</sub> Cl <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 7644-8	3-6	9
45	Nitrogen Dissociation via Reaction with Lithium Alloys. <i>ACS Omega</i> , <b>2017</b> , 2, 1081-1088	3-9	8
44	Gas Emission Properties of the MgH <sub>x</sub> -Zn(BH <sub>4</sub> ) <sub>2</sub> Systems. <i>Materials Transactions</i> , <b>2007</b> , 48, 556-559	1-3	8
43	Tailoring the absorption-desorption properties of KSiH <sub>3</sub> compound using nano-metals (Ni, Co, Nb) as catalyst. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 645, S144-S147	5-7	7
42	Investigation on hydrogen dissociation pressure, heat of formation and strain energy of metal hydrides. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 840, 155686	5-7	7
41	Tailoring the hydrogen absorption desorption dynamics of MgMgH <sub>2</sub> system by titanium suboxide doping. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 21841-21848	6-7	7



40	First-Principles Calculations of Potassium Amidoborane KNH <sub>2</sub> BH <sub>3</sub> : Structure and 39K NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20666-20672	3.8	7
39	Hydrogen Desorption Reaction between Hydrogen-Containing Functional Groups and Lithium Hydride. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8668-8674	3.8	7
38	Raman Scattering Study of Hydrogen Storage Material LiNH <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 094603	1.5	7
37	H <sub>2</sub> desorption from LiH cluster and NH <sub>3</sub> molecule studied by ab initio molecular dynamics simulation. <i>Computational and Theoretical Chemistry</i> , <b>2010</b> , 944, 137-145		7
36	Thermodynamics and kinetics of hydrogen absorption-desorption of vanadium synthesized by aluminothermy. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2017</b> , 130, 721-726	4.1	6
35	Ammonia suppression during decomposition of sodium amide by the addition of metal hydride. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 22388-22394	6.7	6
34	Kinetic Modification on Hydrogen Desorption of Lithium Hydride and Magnesium Amide System. <i>Materials</i> , <b>2015</b> , 8, 3896-3909	3.5	6
33	Electronic structure of lithium amide. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	6
32	Hydrogen production via thermochemical water-splitting by lithium redox reaction. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, S410-S413	5.7	5
31	Lithium hydrazide as a potential compound for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 5750-5753	6.7	5
30	The anharmonic vibration of Li in lithium amide. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 151911	3.4	5
29	Proton-based solid acids for ammonia absorption in ammonia water. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 22189-22194	6.7	5
28	Concentration-composition-isotherm for the ammonia absorption process of zirconium phosphate.. <i>RSC Advances</i> , <b>2020</b> , 10, 20882-20885	3.7	5
27	Investigation on standard entropy change of metal hydrides and work function of metals. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 2306-2311	6.7	5
26	Thermodynamic and Spectroscopic Analyses of Zirconium Phosphate-Absorbed Ammonia. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3758-3763	3.8	4
25	Isotopic effect on the non-isothermal dehydrogenation kinetics of lithium alanates. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 492, 183-188	3.3	3
24	A new complex alkali metal aluminium amide borohydride, Li <sub>2</sub> Al(ND <sub>2</sub> ) <sub>4</sub> BH <sub>4</sub> : synthesis, thermal analysis and crystal structure. <i>RSC Advances</i> , <b>2016</b> , 6, 28761-28766	3.7	3
23	Improved hydrogen desorption from lithium hydrazide by alkali metal hydride. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, S320-S323	5.7	2



22	Microscopic characterization of metal-carbon-hydrogen composites (metal = Li, Mg). <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 093509	2.5	2
21	The catalytic effect of ZrCl <sub>4</sub> on thermal dehydrogenation LiAlD <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 14413-14417	6.7	2
20	Thermodynamic analysis of ammonia storage materials. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 11756-11760	6.7	2
19	Hydrogen Ab/Desorption of LiH-KH Composite and Ammonia System. <i>Materials Transactions</i> , <b>2016</b> , 57, 1215-1219	1.3	2
18	Temperature rise of LaNi-based alloys by hydrogen adsorption. <i>Chemical Communications</i> , <b>2021</b> , 57, 9374-9377	5.9	2
17	Eutectic Phenomenon of LiNH <sub>2</sub> -KH Composite in MH-NH <sub>3</sub> Hydrogen Storage System. <i>Molecules</i> , <b>2019</b> , 24,	4.8	1
16	Cation/anion dependence of metal ammine borohydrides/chlorides studied by ab initio calculations. <i>Computational and Theoretical Chemistry</i> , <b>2014</b> , 1039, 71-74	2	1
15	Correlation between particle size and hydrogen generation properties on ammonia and lithium hydride system. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 14911-14915	6.7	1
14	Catalytic Effect of Niobium Oxide on Hydrogen Absorption and Desorption Process for Magnesium. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2013</b> , 77, 636-640	0.4	1
13	Variable temperature neutron diffraction studies of single crystals of LiND <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7909-7913	6.7	1
12	Ab initio study on the hydrogen desorption from MH-NH <sub>3</sub> (M = Li, Na, K) hydrogen storage systems. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 124515	3.9	1
11	Entropy differences between hydrides and other elements. <i>Chemical Communications</i> , <b>2021</b> , 57, 3461-3463	5.9	1
10	Cluster size effect on hydrogen desorption process from LiHn-NH <sub>3</sub> hydrogen storage system. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S728-S731	5.7	0
9	Synergetic NH absorption properties of the NaBH-LiBH mixed system. <i>Chemical Communications</i> , <b>2021</b> , 57, 6003-6006	5.8	0
8	Development of CaMgH <sub>2</sub> ZrCl <sub>4</sub> composite for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 34362-34368	6.7	0
7	Assessment of hydrogen storage property of Ca Mg B H system using NMR and thermal analysis techniques. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26007-26012	6.7	
6	Microstructure and hydrogen desorption characteristics of hydrogenated ScH <sub>2</sub> MBn (M = Mg and Ca) systems synthesized by mechanical milling. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 6744-6749	6.7	1
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