

Yoshitsugu Kojima

List of Publications by Year in descending order

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150
papers

5,198
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76196

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docs citations

151
times ranked

3492
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials for hydrogen-based energy storage – past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020, 827, 153548.	2.8	518
2	Hydrogen storage materials for hydrogen and energy carriers. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18179-18192.	3.8	261
3	Reversible ammonia-based and liquid organic hydrogen carriers for high-density hydrogen storage: Recent progress. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7746-7767.	3.8	166
4	Development of 10 kW-scale hydrogen generator using chemical hydride. <i>Journal of Power Sources</i> , 2004, 125, 22-26.	4.0	161
5	Development of vanadium based hydrogen storage material: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 791-800.	8.2	156
6	IR characterizations of lithium imide and amide. <i>Journal of Alloys and Compounds</i> , 2005, 395, 236-239.	2.8	154
7	Hydrogen generation by hydrolysis reaction of lithium borohydride. <i>International Journal of Hydrogen Energy</i> , 2004, 29, 1213-1217.	3.8	135
8	Hydrogen absorption of catalyzed magnesium below room temperature. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13728-13733.	3.8	112
9	Development of metal hydride with high dissociation pressure. <i>Journal of Alloys and Compounds</i> , 2006, 419, 256-261.	2.8	96
10	Ammonia, a Switch for Controlling High Ionic Conductivity in Lithium Borohydride Ammoniates. <i>Joule</i> , 2018, 2, 1522-1533.	11.7	87
11	Magnesium-based nano-composite materials for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2006, 424, 294-298.	2.8	84
12	Dehydrating reactions of mixed complex hydrides. <i>Journal of Power Sources</i> , 2006, 155, 447-455.	4.0	81
13	Hydrogen adsorption and desorption by carbon materials. <i>Journal of Alloys and Compounds</i> , 2006, 421, 204-208.	2.8	80
14	Review on Ammonia Absorption Materials: Metal Hydrides, Halides, and Borohydrides. <i>ACS Applied Energy Materials</i> , 2018, 1, 232-242.	2.5	80
15	Highly purified hydrogen production from ammonia for PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 14486-14492.	3.8	76
16	Thermal analysis on the Li-Mg-H systems. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 306-309.	2.8	74
17	Hydrogen generation from lithium borohydride solution over nano-sized platinum dispersed on LiCoO ₂ . <i>Journal of Power Sources</i> , 2006, 155, 325-328.	4.0	70
18	Structure and catalytic properties of Ni/MWCNTs and Ni/AC catalysts for hydrogen production via ammonia decomposition. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 277-287.	3.8	66

#	ARTICLE	IF	CITATIONS
19	How does TiF_4 affect the decomposition of MgH_2 and its complex variants? An XPS investigation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15543-15551.	5.2	65
20	X-ray Absorption Spectroscopic Study on Valence State and Local Atomic Structure of Transition Metal Oxides Doped in MgH_2 . <i>Journal of Physical Chemistry C</i> , 2009, 113, 13450-13455.	1.5	64
21	Metal hydride-based materials towards high performance negative electrodes for all-solid-state lithium-ion batteries. <i>Chemical Communications</i> , 2015, 51, 9773-9776.	2.2	64
22	Hydrogen Absorption and Desorption by the $\text{Li}^+\text{Al}^+\text{Na}^+\text{H}$ System. <i>Journal of Physical Chemistry B</i> , 2006, 110, 9632-9636.	1.2	63
23	Surface modification of MgH_2 by ZrCl_4 to tailor the reversible hydrogen storage performance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6152-6159.	3.8	61
24	Recyclable hydrogen storage system composed of ammonia and alkali metal hydride. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9760-9764.	3.8	59
25	Comparative Study of Structural Changes in NH_3BH_3 , LiNH_2BH_3 , and KNH_2BH_3 During Dehydrogenation Process. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5957-5964.	1.5	57
26	Enhancement of hydrogen desorption kinetics in magnesium hydride by doping with lithium metatitanate. <i>Journal of Alloys and Compounds</i> , 2017, 711, 400-405.	2.8	57
27	Hydrogen storage of metal nitrides by a mechanochemical reaction. <i>Journal of Power Sources</i> , 2006, 159, 81-87.	4.0	56
28	Hydrogen generation by electrolysis of liquid ammonia. <i>Chemical Communications</i> , 2010, 46, 7775.	2.2	55
29	Ammonia as a hydrogen energy carrier. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 22832-22839.	3.8	50
30	Superior Hydrogen Exchange Effect in the $\text{MgH}_2\text{-LiBH}_4$ System. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13132-13135.	1.5	48
31	Solid state NMR study on the thermal decomposition pathway of sodium amidoborane NaNH_2BH_3 . <i>Journal of Materials Chemistry</i> , 2011, 21, 2609.	6.7	48
32	Hydrogen release of catalyzed lithium aluminum hydride by a mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , 2008, 462, 275-278.	2.8	47
33	Anode properties of magnesium hydride catalyzed with niobium oxide for an all solid-state lithium-ion battery. <i>Chemical Communications</i> , 2013, 49, 7174.	2.2	47
34	High compressed hydrogen production via direct electrolysis of liquid ammonia. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14529-14534.	3.8	46
35	Thermal decomposition of alkaline-earth metal hydride and ammonia borane composites. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 12405-12409.	3.8	45
36	Bulk-Type All-Solid-State Lithium-Ion Batteries: Remarkable Performances of a Carbon Nanofiber-Supported MgH_2 Composite Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2261-2266.	4.0	45

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37	Hydrogen storage of metal nitride by a mechanochemical reaction. <i>Chemical Communications</i> , 2004, , 2210.	2.2	41
38	Electron Spin Resonance Investigation of Hydrogen Absorption in Ball-Milled Graphite. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5409-5416.	1.5	41
39	Molecular hydrogen carrier with activated nanohydride and ammonia. <i>Journal of Materials Research</i> , 2009, 24, 2185-2190.	1.2	41
40	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> , 2014, 39, 17573-17582.	3.8	40
41	Study of cyclic performance of V-Ti-Cr alloys employed for hydrogen compressor. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2881-2889.	3.8	40
42	Phase and morphology evolution study of ball milled Mg-Co hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7070-7076.	3.8	39
43	Thermodynamics and kinetics of nano-engineered Mg-MgH ₂ system for reversible hydrogen storage application. <i>Thermochimica Acta</i> , 2017, 652, 103-108.	1.2	38
44	Study on the thermal decomposition of NaBH ₄ catalyzed by ZrCl ₄ . <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22432-22437.	3.8	37
45	Hybrid nickel-metal hydride/hydrogen battery. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4263-4270.	3.8	36
46	Correlation between kinetics and chemical bonding state of catalyst surface in catalyzed magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12319-12323.	3.8	34
47	Ammonia storage materials for nitrogen recycling hydrogen and energy carriers. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10233-10246.	3.8	34
48	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> , 2010, 114, 14662-14664.	1.5	33
49	Thermodynamics on Ammonia Absorption of Metal Halides and Borohydrides. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18412-18416.	1.5	32
50	Activation on Ammonia Absorbing Reaction for Magnesium Chloride. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26296-26302.	1.5	32
51	Hydrogen adsorption and desorption by potassium-doped superactivated carbon. <i>Applied Physics Letters</i> , 2004, 84, 4113-4115.	1.5	31
52	Electrochemical Performance of Titanium Hydride for Bulk-Type All-Solid-State Lithium-Ion Batteries. <i>Materials Transactions</i> , 2016, 57, 755-757.	0.4	31
53	Improvement of hydrogen desorption kinetics in the Li-NH ₃ system by addition of KH. <i>Chemical Communications</i> , 2011, 47, 12227.	2.2	30
54	A new synthesis route of ammonia production through hydrolysis of metal Nitrides. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24897-24903.	3.8	30

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55	Hydrogen storage properties of lithium silicon alloy synthesized by mechanical alloying. <i>Journal of Power Sources</i> , 2011, 196, 504-507.	4.0	29
56	Dehydrogenation process of AlH_3 observed by TEM. <i>Journal of Alloys and Compounds</i> , 2013, 580, S163-S166.	2.8	28
57	Destabilization of LiH by Li Insertion into Ge . <i>Journal of Physical Chemistry C</i> , 2013, 117, 5650-5657.	1.5	28
58	Low-temperature water-splitting by sodium redox reaction. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17709-17714.	3.8	27
59	Direct formation of LiAlH_4 by a mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , 2007, 441, 189-191.	2.8	26
60	Synthesis and characterization of lithium-carbon compounds for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2011, 509, 719-723.	2.8	26
61	Thermodynamic properties of metal amides determined by ammonia pressure-composition isotherms. <i>Journal of Chemical Thermodynamics</i> , 2010, 42, 140-143.	1.0	25
62	Evaluation of enthalpy change due to hydrogen desorption for lithium amide/imide system by differential scanning calorimetry. <i>Thermochimica Acta</i> , 2008, 468, 35-38.	1.2	24
63	The reaction process of hydrogen absorption and desorption on the nanocomposite of hydrogenated graphite and lithium hydride. <i>Nanotechnology</i> , 2009, 20, 204021.	1.3	24
64	Formation of NaCl-Type Monodeuteride LaD by the Disproportionation Reaction of LaD_2 . <i>Physical Review Letters</i> , 2012, 108, 205501.	2.9	24
65	Improved hydrogen release from magnesium borohydride by ZrCl_4 additive. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22342-22347.	3.8	24
66	Micro-alloyed Mg_2Ni for better performance as negative electrode of Ni-MH battery and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5220-5226.	3.8	23
67	Doping effect of Nb species on hydrogen desorption properties of AlH_3 . <i>Journal of Alloys and Compounds</i> , 2018, 734, 55-59.	2.8	23
68	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> , 2007, 446-447, 360-362.	2.8	22
69	Thermodynamic properties of lithium amide under hydrogen pressure determined by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	22
70	Hydrogen desorption reactions of Li-N-H hydrogen storage system: Estimation of activation free energy. <i>Journal of Alloys and Compounds</i> , 2007, 439, 358-362.	2.8	21
71	Electrochemical charge and discharge properties for the formation of magnesium and aluminum hydrides. <i>Journal of Alloys and Compounds</i> , 2011, 509, S584-S587.	2.8	21
72	Nano-engineered Mg-MgH_2 system for solar thermal energy storage. <i>Solar Energy</i> , 2017, 150, 532-537.	2.9	21

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73	Hydrogen desorption processes in Li-Mg-H systems. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2234-2236.	1.9	20
74	Synthesis and characterization of magnesium-carbon compounds for hydrogen storage. <i>Carbon</i> , 2013, 56, 50-55.	5.4	20
75	Development of Mg Li B based advanced material for onboard hydrogen storage solution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3963-3970.	3.8	20
76	Catalytic effect of ATiO ₃ (A = Sr, Ba) on ammonia decomposition during mechanical milling. <i>Chemical Communications</i> , 2010, 46, 3982.	2.2	19
77	Liquid ammonia electrolysis by platinum electrodes. <i>Journal of Alloys and Compounds</i> , 2011, 509, S891-S894.	2.8	19
78	Anode properties of Al ₂ O ₃ -added MgH ₂ for all-solid-state lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3639-3644.	1.2	19
79	Catalytic hydrolysis of sodium borohydride on Co catalysts. <i>International Journal of Energy Research</i> , 2016, 40, 2078-2090.	2.2	19
80	Characterization of hydrogen absorption/desorption states on lithium-carbon-hydrogen system by neutron diffraction. <i>Journal of Applied Physics</i> , 2008, 104, 053511.	1.1	18
81	Nitrogen Dissociation via Reaction with Lithium Alloys. <i>ACS Omega</i> , 2017, 2, 1081-1088.	1.6	18
82	Hydrogen desorption properties of Li-B-H system synthesized by mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3128-3131.	3.8	17
83	Improvement of reaction kinetics by metal chloride on ammonia and lithium hydride system. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16025-16030.	3.8	17
84	Synergic effect of ZrCl ₄ on thermal dehydrogenation kinetics of KBH ₄ . <i>Journal of Alloys and Compounds</i> , 2017, 718, 134-138.	2.8	17
85	Anomalous hydrogen absorption on non-stoichiometric iron-carbon compound. <i>Journal of Alloys and Compounds</i> , 2010, 507, 547-550.	2.8	16
86	Ammonia Synthesis via Non-Equilibrium Reaction of Lithium Nitride in Hydrogen Flow Condition. <i>Materials Transactions</i> , 2015, 56, 410-414.	0.4	16
87	Catalytic effect of bis (cyclopentadienyl) nickel II on the improvement of the hydrogenation-dehydrogenation of Mg-MgH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17178-17183.	3.8	16
88	Catalytic Effect of Ti-N Compounds in the Li-N-H System on Hydrogen Desorption Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 589-593.	1.5	15
89	Synthesis of nickel nanoparticles with excellent thermal stability in micropores of zeolite. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13579-13586.	3.8	15
90	Correlation between electrochemical behavior and hydrogen storage properties of Li-Sn system. <i>Journal of Alloys and Compounds</i> , 2013, 580, S211-S215.	2.8	15

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91	Catalytic modification in dehydrogenation properties of KSiH_3 . Physical Chemistry Chemical Physics, 2014, 16, 26163-26167.	1.3	15
92	Tailoring the Thermodynamics and Kinetics of Mg-Li Alloy for a MgH_2 -Based Anode for Lithium-Ion Batteries. Energy Technology, 2017, 5, 1546-1551.	1.8	15
93	Quantity of NH_3 desorption from the Li-N-H hydrogen storage system examined by Fourier transform infrared spectroscopy. Journal of Alloys and Compounds, 2007, 446-447, 342-344.	2.8	14
94	Reaction between magnesium ammine complex compound and lithium hydride. International Journal of Hydrogen Energy, 2010, 35, 2058-2062.	3.8	13
95	Structural and thermal gas desorption properties of metal aluminum amides. Journal of Alloys and Compounds, 2010, 506, 297-301.	2.8	13
96	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.	1.5	13
97	Proton-based solid acids for ammonia absorption in ammonia water. International Journal of Hydrogen Energy, 2020, 45, 22189-22194.	3.8	13
98	Compressed hydrogen production via reaction between liquid ammonia and alkali metal hydride. International Journal of Hydrogen Energy, 2011, 36, 8217-8220.	3.8	12
99	Identifying catalyst in Li-N-H system by x-ray absorption spectroscopy. Applied Physics Letters, 2011, 99, .	1.5	12
100	Thermal decomposition of sodium amide. International Journal of Hydrogen Energy, 2017, 42, 5213-5219.	3.8	12
101	Local Structural Analysis on Decomposition Process of $\text{LiAl}(\text{ND}_2)_2$. Materials Transactions, 2014, 55, 1129-1133.	0.4	11
102	Catalysis of Lithium Chloride and Alkali Metal Borohydrides on Hydrogen Generation of Ammonia and Lithium Hydride System. Journal of Physical Chemistry C, 2015, 119, 19922-19927.	1.5	10
103	Thermodynamic and Spectroscopic Analyses of Zirconium Phosphate-Absorbed Ammonia. Journal of Physical Chemistry C, 2021, 125, 3758-3763.	1.5	10
104	Crystal structure and dynamics of $\text{Mg}(\text{ND}_3)_6\text{Cl}_2$. Physical Chemistry Chemical Physics, 2011, 13, 7644.	1.3	9
105	First-Principles Calculations of Potassium Amidoborane KNH_2BH_3 : Structure and ^{39}K NMR Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 20666-20672.	1.5	9
106	Metal aluminum amides for hydrogen storage Li-N-H Crystal structure studies. International Journal of Hydrogen Energy, 2015, 40, 16938-16947.	3.8	9
107	Tailoring the absorption-desorption properties of KSiH_3 compound using nano-metals (Ni, Co, Nb) as catalyst. Journal of Alloys and Compounds, 2015, 645, S144-S147.	2.8	9
108	Remarkably improved dehydrogenation of ZrCl_4 doped NaAlH_4 for hydrogen storage application. International Journal of Hydrogen Energy, 2017, 42, 15299-15307.	3.8	9

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109	Investigation on hydrogen dissociation pressure, heat of formation and strain energy of metal hydrides. <i>Journal of Alloys and Compounds</i> , 2020, 840, 155686.	2.8	9
110	Investigation on standard entropy change of metal hydrides and work function of metals. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 2306-2311.	3.8	9
111	Gas Emission Properties of the MgH _x -Zn(BH ₄) ₂ Systems. <i>Materials Transactions</i> , 2007, 48, 556-559.	0.4	8
112	H ₂ desorption from LiH cluster and NH ₃ molecule studied by ab initio molecular dynamics simulation. <i>Computational and Theoretical Chemistry</i> , 2010, 944, 137-145.	1.5	8
113	Raman Scattering Study of Hydrogen Storage Material LiNH ₂ . <i>Journal of the Physical Society of Japan</i> , 2012, 81, 094603.	0.7	8
114	Concentration-composition-isotherm for the ammonia absorption process of zirconium phosphate. <i>RSC Advances</i> , 2020, 10, 20882-20885.	1.7	8
115	Hydrogen Desorption Reaction between Hydrogen-Containing Functional Groups and Lithium Hydride. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8668-8674.	1.5	7
116	Electronic structure of lithium amide. <i>Physical Review B</i> , 2011, 83, .	1.1	7
117	Ammonia suppression during decomposition of sodium amide by the addition of metal hydride. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22388-22394.	3.8	7
118	Tailoring the hydrogen absorption desorption's dynamics of Mg MgH ₂ system by titanium suboxide doping. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21841-21848.	3.8	7
119	Lithium hydrazide as a potential compound for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 5750-5753.	3.8	6
120	Kinetic Modification on Hydrogen Desorption of Lithium Hydride and Magnesium Amide System. <i>Materials</i> , 2015, 8, 3896-3909.	1.3	6
121	Thermodynamics and kinetics of hydrogen absorption-desorption of vanadium synthesized by aluminothermy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 721-726.	2.0	6
122	Temperature rise of LaNi ₅ -based alloys by hydrogen adsorption. <i>Chemical Communications</i> , 2021, 57, 9374-9377.	2.2	6
123	Thermodynamic analysis of ammonia storage materials. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 11756-11760.	3.8	6
124	The anharmonic vibration of Li in lithium amide. <i>Applied Physics Letters</i> , 2012, 100, 151911.	1.5	5
125	Hydrogen production via thermochemical water-splitting by lithium redox reaction. <i>Journal of Alloys and Compounds</i> , 2013, 580, S410-S413.	2.8	5
126	Isotopic effect on the non-isothermal dehydrogenation kinetics of lithium alanates. <i>Journal of Nuclear Materials</i> , 2017, 492, 183-188.	1.3	5

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127	Eutectic Phenomenon of LiNH ₂ -KH Composite in MH-NH ₃ Hydrogen Storage System. <i>Molecules</i> , 2019, 24, 1348.	1.7	5
128	A new complex alkali metal aluminium amide borohydride, Li ₂ Al(ND ₂) ₄ BH ₄ : synthesis, thermal analysis and crystal structure. <i>RSC Advances</i> , 2016, 6, 28761-28766.	1.7	4
129	The catalytic effect of ZrCl ₄ on thermal dehydrogenation LiAlD ₄ . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14413-14417.	3.8	4
130	Microscopic characterization of metal-carbon-hydrogen composites (metal=Li, Mg). <i>Journal of Applied Physics</i> , 2013, 114, 093509.	1.1	3
131	Hydrogen Ab/Desorption of LiH-KH Composite and Ammonia System. <i>Materials Transactions</i> , 2016, 57, 1215-1219.	0.4	3
132	Development of Ca-Mg-H ₂ -ZrCl ₄ composite for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34362-34368.	3.8	3
133	Cluster size effect on hydrogen desorption process from LinH-NH ₃ hydrogen storage system. <i>Journal of Alloys and Compounds</i> , 2011, 509, S728-S731.	2.8	2
134	<i>Ab initio</i> study on the hydrogen desorption from $\{M\text{Hext}\{\&\#x2013;\}NH\}_3$ (M = Li, Na, K) hydrogen storage systems. <i>Journal of Chemical Physics</i> , 2011, 134, 124515.	1.2	2
135	Improved hydrogen desorption from lithium hydrazide by alkali metal hydride. <i>Journal of Alloys and Compounds</i> , 2013, 580, S320-S323.	2.8	2
136	Correlation between particle size and hydrogen generation properties on ammonia and lithium hydride system. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14911-14915.	3.8	2
137	Entropy differences between hydrides and other elements. <i>Chemical Communications</i> , 2021, 57, 3461-3463.	2.2	2
138	Variable temperature neutron diffraction studies of single crystals of LiND ₂ . <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7909-7913.	3.8	1
139	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> , 2013, 77, 636-640.	0.2	1
140	Synthesis of Calcium Borohydride by Milling Hydrogenation of Hydride and Boride. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2013, 77, 609-614.	0.2	1
141	Cation/anion dependence of metal ammine borohydrides/chlorides studied by <i>ab initio</i> calculations. <i>Computational and Theoretical Chemistry</i> , 2014, 1039, 71-74.	1.1	1
142	Assessment of hydrogen storage property of Ca Mg B H system using NMR and thermal analysis techniques. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26007-26012.	3.8	1
143	Synergetic NH ₃ absorption properties of the NaBH ₄ -LiBH ₄ mixed system. <i>Chemical Communications</i> , 2021, 57, 6003-6006.	2.2	1
144	Hydrogen storage properties in a composite of lithium hydride and boron nitride with hydrocarbon groups. <i>Journal of Alloys and Compounds</i> , 2007, 446-447, 39-43.	2.8	0

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145	Microstructure and hydrogen desorption characteristics of hydrogenated ScH ₂ MBn (M=Al, Mg and Ca) systems synthesized by mechanical milling. International Journal of Hydrogen Energy, 2013, 38, 6744-6749.	3.8	0
146	Chemical Hydrogen Storage of Carbon Material. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2013, 77, 552-558.	0.2	0
147	Investigation of Reaction Mechanism in Li ₂ NH Hydrogen Storage System by TEM. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2013, 77, 571-574.	0.2	0
148	Ammonia Synthesis via Non-Equilibrium Reaction of Lithium Nitride in Hydrogen Flow Condition. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2013, 77, 580-584.	0.2	0
149	Anomalous Large Capacitances of Porous Carbons based on Protium Adsorption. Chemical Communications, 2022, , .	2.2	0
150	Regeneration Process of Ammonia-Absorbed Zirconium Phosphate to Zirconium Phosphate. ACS Omega, 2022, 7, 20881-20885.	1.6	0