

Yoshitsugu Kojima

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.

147
papers

3,811
citations

35
h-index

54
g-index

151
ext. papers

4,420
ext. citations

5.4
avg, IF

5.81
L-index

#	Paper	IF	Citations
147	Thermodynamic analysis of ammonia storage materials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 11756-11760	6.7	2
146	Investigation on standard entropy change of metal hydrides and work function of metals. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2306-2311	6.7	5
145	Entropy differences between hydrides and other elements. <i>Chemical Communications</i> , 2021 , 57, 3461-3463	5.9	1
144	Synergetic NH absorption properties of the NaBH-LiBH mixed system. <i>Chemical Communications</i> , 2021 , 57, 6003-6006	5.8	0
143	Temperature rise of LaNi-based alloys by hydrogen adsorption. <i>Chemical Communications</i> , 2021 , 57, 9374-9377	5.8	2
142	Thermodynamic and Spectroscopic Analyses of Zirconium Phosphate-Absorbed Ammonia. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3758-3763	3.8	4
141	Development of CaMgH ₂ ZrCl ₄ composite for hydrogen storage applications. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 34362-34368	6.7	0
140	Ammonia storage materials for nitrogen recycling hydrogen and energy carriers. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10233-10246	6.7	17
139	Investigation on hydrogen dissociation pressure, heat of formation and strain energy of metal hydrides. <i>Journal of Alloys and Compounds</i> , 2020 , 840, 155686	5.7	7
138	Materials for hydrogen-based energy storage [past, recent progress and future outlook. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 153548	5.7	264
137	The catalytic effect of ZrCl ₄ on thermal dehydrogenation LiAlD ₄ . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14413-14417	6.7	2
136	Proton-based solid acids for ammonia absorption in ammonia water. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22189-22194	6.7	5
135	Concentration-composition-isotherm for the ammonia absorption process of zirconium phosphate.. <i>RSC Advances</i> , 2020 , 10, 20882-20885	3.7	5
134	Hybrid nickel-metal hydride/hydrogen battery. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4263-4270	6.7	22
133	Eutectic Phenomenon of LiNH ₂ KH Composite in MH-NH ₂ Hydrogen Storage System. <i>Molecules</i> , 2019 , 24,	4.8	1
132	Hydrogen storage materials for hydrogen and energy carriers. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 18179-18192	6.7	100
131	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	6.7	87

130	Review on Ammonia Absorption Materials: Metal Hydrides, Halides, and Borohydrides. <i>ACS Applied Energy Materials</i> , 2018 , 1, 232-242	6.1	38
129	Study of cyclic performance of V-Ti-Cr alloys employed for hydrogen compressor. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2881-2889	6.7	23
128	Ammonia, a Switch for Controlling High Ionic Conductivity in Lithium Borohydride Ammoniates. <i>Joule</i> , 2018 , 2, 1522-1533	27.8	52
127	Doping effect of Nb species on hydrogen desorption properties of AlH ₃ . <i>Journal of Alloys and Compounds</i> , 2018 , 734, 55-59	5.7	19
126	Highly purified hydrogen production from ammonia for PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14486-14492	6.7	44
125	Micro-alloyed Mg ₂ Ni for better performance as negative electrode of Ni-MH battery and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5220-5226	6.7	20
124	Thermal decomposition of sodium amide. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5213-5219	6.7	12
123	Improved hydrogen release from magnesium borohydride by ZrCl ₄ additive. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22342-22347	6.7	20
122	Development of vanadium based hydrogen storage material: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 72, 791-800	16.2	99
121	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	6.7	46
120	Tailoring the Thermodynamics and Kinetics of Mg ₂ Ni Alloy for a MgH ₂ -Based Anode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2017 , 5, 1546-1551	3.5	14
119	Study on the thermal decomposition of NaBH ₄ catalyzed by ZrCl ₄ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22432-22437	6.7	30
118	Nitrogen Dissociation via Reaction with Lithium Alloys. <i>ACS Omega</i> , 2017 , 2, 1081-1088	3.9	8
117	Enhancement of hydrogen desorption kinetics in magnesium hydride by doping with lithium metatitanate. <i>Journal of Alloys and Compounds</i> , 2017 , 711, 400-405	5.7	38
116	Thermodynamics and kinetics of hydrogen absorption-desorption of vanadium synthesized by aluminothermy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 130, 721-726	4.1	6
115	Nano-engineered Mg/MgH ₂ system for solar thermal energy storage. <i>Solar Energy</i> , 2017 , 150, 532-537	6.8	18
114	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	13	43
113	Synergic effect of ZrCl ₄ on thermal dehydrogenation kinetics of KBH ₄ . <i>Journal of Alloys and Compounds</i> , 2017 , 718, 134-138	5.7	15

112	Isotopic effect on the non-isothermal dehydrogenation kinetics of lithium alanates. <i>Journal of Nuclear Materials</i> , 2017 , 492, 183-188	3.3	3
111	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	6.7	16
110	Remarkably improved dehydrogenation of ZrCl ₄ doped NaAlH ₄ for hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15299-15307	6.7	9
109	Thermodynamics and kinetics of nano-engineered Mg-MgH ₂ system for reversible hydrogen storage application. <i>Thermochimica Acta</i> , 2017 , 652, 103-108	2.9	33
108	Ammonia suppression during decomposition of sodium amide by the addition of metal hydride. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22388-22394	6.7	6
107	Bulk-Type All-Solid-State Lithium-Ion Batteries: Remarkable Performances of a Carbon Nanofiber-Supported MgH Composite Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2261-2266	9.5	34
106	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	6.7	
105	Tailoring the hydrogen absorption desorption dynamics of MgMgH ₂ system by titanium suboxide doping. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21841-21848	6.7	7
104	Development of Mg Li B based advanced material for onboard hydrogen storage solution. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3963-3970	6.7	19
103	A new synthesis route of ammonia production through hydrolysis of metal Nitrides. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 24897-24903	6.7	19
102	High compressed hydrogen production via direct electrolysis of liquid ammonia. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14529-14534	6.7	31
101	Catalytic hydrolysis of sodium borohydride on Co catalysts. <i>International Journal of Energy Research</i> , 2016 , 40, 2078-2090	4.5	18
100	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	3.7	3
99	Hydrogen Ab/Desorption of LiH-KH Composite and Ammonia System. <i>Materials Transactions</i> , 2016 , 57, 1215-1219	1.3	2
98	Electrochemical Performance of Titanium Hydride for Bulk-Type All-Solid-State Lithium-Ion Batteries. <i>Materials Transactions</i> , 2016 , 57, 755-757	1.3	20
97	Metal aluminum amides for hydrogen storage [Crystal structure studies. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 16938-16947	6.7	9
96	Tailoring the absorption-desorption properties of KSiH ₃ compound using nano-metals (Ni, Co, Nb) as catalyst. <i>Journal of Alloys and Compounds</i> , 2015 , 645, S144-S147	5.7	7
95	Metal hydride-based materials towards high performance negative electrodes for all-solid-state lithium-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 9773-6	5.8	51

94	Ammonia Synthesis via Non-Equilibrium Reaction of Lithium Nitride in Hydrogen Flow Condition. <i>Materials Transactions</i> , 2015 , 56, 410-414	1.3	10
93	Activation on Ammonia Absorbing Reaction for Magnesium Chloride. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26296-26302	3.8	19
92	Kinetic Modification on Hydrogen Desorption of Lithium Hydride and Magnesium Amide System. <i>Materials</i> , 2015 , 8, 3896-3909	3.5	6
91	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	2.6	15
90	Catalysis of Lithium Chloride and Alkali Metal Borohydrides on Hydrogen Generation of Ammonia and Lithium Hydride System. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19922-19927	3.8	9
89	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	6.7	1
88	Thermodynamics on Ammonia Absorption of Metal Halides and Borohydrides. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18412-18416	3.8	24
87	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	6.7	30
86	Cation/anion dependence of metal ammine borohydrides/chlorides studied by ab initio calculations. <i>Computational and Theoretical Chemistry</i> , 2014 , 1039, 71-74	2	1
85	Local Structural Analysis on Decomposition Process of LiAl(ND ₂) ₄ . <i>Materials Transactions</i> , 2014 , 55, 1129-1133	1.3	11
84	Catalytic modification in dehydrogenation properties of KSiH ₃ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 26163-7	3.6	13
83	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	6.7	46
82	Improved hydrogen desorption from lithium hydrazide by alkali metal hydride. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S320-S323	5.7	2
81	Anode properties of magnesium hydride catalyzed with niobium oxide for an all solid-state lithium-ion battery. <i>Chemical Communications</i> , 2013 , 49, 7174-6	5.8	40
80	Phase and morphology evolution study of ball milled Mg ₂ Co hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 7070-7076	6.7	35
79	Dehydrogenation process of AlH ₃ observed by TEM. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S163-S166	5.6	17
78	Hydrogen production via thermochemical water-splitting by lithium redox reaction. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S410-S413	5.7	5
77	Microstructure and hydrogen desorption characteristics of hydrogenated ScH ₂ Mg (M=Ca and Mg) systems synthesized by mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6744-6749	6.7	49

76	Synthesis of nickel nanoparticles with excellent thermal stability in micropores of zeolite. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13579-13586	6.7	13
75	Correlation between electrochemical behavior and hydrogen storage properties of LiBn system. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S211-S215	5.7	12
74	Hydrogen absorption of catalyzed magnesium below room temperature. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13728-13733	6.7	80
73	Synthesis and characterization of magnesium-carbon compounds for hydrogen storage. <i>Carbon</i> , 2013 , 56, 50-55	10.4	19
72	Destabilization of LiH by Li Insertion into Ge. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5650-5657	3.8	26
71	Microscopic characterization of metal-carbon-hydrogen composites (metal = Li, Mg). <i>Journal of Applied Physics</i> , 2013 , 114, 093509	2.5	2
70	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	0.4	1
69	Chemical Hydrogen Storage of Carbon Material. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2013 , 77, 552-558	0.4	
68	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	0.4	
67	Investigation of Reaction Mechanism in Li ₂ NH Hydrogen Storage System by TEM. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2013 , 77, 571-574	0.4	
66	Ammonia Synthesis via Non-Equilibrium Reaction of Lithium Nitride in Hydrogen Flow Condition. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2013 , 77, 580-584	0.4	
65	Improvement of reaction kinetics by metal chloride on ammonia and lithium hydride system. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 16025-16030	6.7	16
64	Low-temperature water-splitting by sodium redox reaction. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17709-17714	6.7	22
63	First-Principles Calculations of Potassium Amidoborane KNH ₂ BH ₃ : Structure and 39K NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 20666-20672	3.8	7
62	Comparative Study of Structural Changes in NH ₃ BH ₃ , LiNH ₂ BH ₃ , and KNH ₂ BH ₃ During Dehydrogenation Process. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5957-5964	3.8	51
61	Lithium hydrazide as a potential compound for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5750-5753	6.7	5
60	Raman Scattering Study of Hydrogen Storage Material LiNH ₂ . <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 094603	1.5	7
59	Formation of NaCl-type monodeuteride LaD by the disproportionation reaction of LaD ₂ . <i>Physical Review Letters</i> , 2012 , 108, 205501	7.4	15

58	The anharmonic vibration of Li in lithium amide. <i>Applied Physics Letters</i> , 2012 , 100, 151911	3.4	5
57	Electronic structure of lithium amide. <i>Physical Review B</i> , 2011 , 83,	3.3	6
56	Crystal structure and dynamics of Mg(ND ₃) ₆ Cl ₂ . <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7644-8	3.6	9
55	Synthesis and characterization of lithium-carbon compounds for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 719-723	5.7	25
54	Electrochemical charge and discharge properties for the formation of magnesium and aluminum hydrides. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S584-S587	5.7	20
53	Liquid ammonia electrolysis by platinum electrodes. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S891-S894	5.7	11
52	Cluster size effect on hydrogen desorption process from Li _n H _n NH ₃ hydrogen storage system. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S728-S731	5.7	0
51	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	6.7	32
50	Improvement of hydrogen desorption kinetics in the LiH-NH ₃ system by addition of KH. <i>Chemical Communications</i> , 2011 , 47, 12227-9	5.8	26
49	Hydrogen storage properties of lithium silicon alloy synthesized by mechanical alloying. <i>Journal of Power Sources</i> , 2011 , 196, 504-507	8.9	22
48	Solid state NMR study on the thermal decomposition pathway of sodium amidoborane NaNH ₂ BH ₃ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 2609		43
47	Ammonia Desorption Property and Structural Changes of LiAl(NH ₂) ₄ on Thermal Decomposition. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10284-10291	3.8	13
46	Catalytic Effect of Ti ₂ N Compounds in the Li ₂ NH System on Hydrogen Desorption Properties. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 589-593	3.8	11
45	Variable temperature neutron diffraction studies of single crystals of LiND ₂ . <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 7909-7913	6.7	1
44	Compressed hydrogen production via reaction between liquid ammonia and alkali metal hydride. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8217-8220	6.7	11
43	Identifying catalyst in Li-N-H system by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2011 , 99, 013101	3.4	11
42	Ab initio study on the hydrogen desorption from MH-NH ₃ (M = Li, Na, K) hydrogen storage systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 124515	3.9	1
41	Superior Hydrogen Exchange Effect in the MgH ₂ -LiBH ₄ System. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13132-13135	3.8	41

40	Hydrogen Desorption Reaction between Hydrogen-Containing Functional Groups and Lithium Hydride. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8668-8674	3.8	7
39	Structural and thermal gas desorption properties of metal aluminum amides. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 297-301	5.7	12
38	Anomalous hydrogen absorption on non-stoichiometric iron-carbon compound. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 547-550	5.7	13
37	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	3.8	29
36	Catalytic effect of ATiO ₃ (A = Sr, Ba) on ammonia decomposition during mechanical milling. <i>Chemical Communications</i> , 2010 , 46, 3982-4	5.8	18
35	Hydrogen generation by electrolysis of liquid ammonia. <i>Chemical Communications</i> , 2010 , 46, 7775-7	5.8	35
34	Thermodynamic properties of metal amides determined by ammonia pressure-composition isotherms. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 140-143	2.9	20
33	Reaction between magnesium ammine complex compound and lithium hydride. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2058-2062	6.7	13
32	Thermal decomposition of alkaline-earth metal hydride and ammonia borane composites. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 12405-12409	6.7	39
31	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		7
30	The reaction process of hydrogen absorption and desorption on the nanocomposite of hydrogenated graphite and lithium hydride. <i>Nanotechnology</i> , 2009 , 20, 204021	3.4	23
29	Recyclable hydrogen storage system composed of ammonia and alkali metal hydride. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9760-9764	6.7	49
28	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	3.8	55
27	Electron Spin Resonance Investigation of Hydrogen Absorption in Ball-Milled Graphite. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5409-5416	3.8	34
26	Thermodynamic properties of lithium amide under hydrogen pressure determined by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 023527	2.5	21
25	Molecular hydrogen carrier with activated nanohydride and ammonia. <i>Journal of Materials Research</i> , 2009 , 24, 2185-2190	2.5	37
24	Hydrogen release of catalyzed lithium aluminum hydride by a mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 275-278	5.7	44
23	Characterization of hydrogen absorption/desorption states on lithium-carbon-hydrogen system by neutron diffraction. <i>Journal of Applied Physics</i> , 2008 , 104, 053511	2.5	16

22	Hydrogen desorption properties of LiBNH system synthesized by mechanical milling. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 3128-3131	6.7	16
21	Hydrogen desorption processes in LiMgNH systems. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2234-2236	3.9	17
20	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	2.9	23
19	Gas Emission Properties of the MgHx-Zn(BH4)2 Systems. <i>Materials Transactions</i> , 2007 , 48, 556-559	1.3	8
18	Hydrogen desorption reactions of LiNH hydrogen storage system: Estimation of activation free energy. <i>Journal of Alloys and Compounds</i> , 2007 , 439, 358-362	5.7	19
17	Direct formation of LiAlH4 by a mechanochemical reaction. <i>Journal of Alloys and Compounds</i> , 2007 , 441, 189-191	5.7	24
16	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	5.7	20
15	Quantity of NH3 desorption from the LiNH hydrogen storage system examined by Fourier transform infrared spectroscopy. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 342-344	5.7	12
14	Thermal analysis on the LiMgBH systems. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 306-309	5.7	68
13	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	5.7	
12	Hydrogen storage of metal nitrides by a mechanochemical reaction. <i>Journal of Power Sources</i> , 2006 , 159, 81-87	8.9	51
11	Hydrogen absorption and desorption by the Li-Al-N-H system. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9632-6	3.4	57
10	Development of metal hydride with high dissociation pressure. <i>Journal of Alloys and Compounds</i> , 2006 , 419, 256-261	5.7	81
9	Hydrogen adsorption and desorption by carbon materials. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 204-208	5.7	67
8	Magnesium-based nano-composite materials for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2006 , 424, 294-298	5.7	73
7	Dehydrogenating reactions of mixed complex hydrides. <i>Journal of Power Sources</i> , 2006 , 155, 447-455	8.9	76
6	Hydrogen generation from lithium borohydride solution over nano-sized platinum dispersed on LiCoO2. <i>Journal of Power Sources</i> , 2006 , 155, 325-328	8.9	60
5	IR characterizations of lithium imide and amide. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 236-239	5.7	141

- 4 Hydrogen adsorption and desorption by potassium-doped superactivated carbon. *Applied Physics Letters*, **2004**, 84, 4113-4115 3.4 28
- 3 Development of 10 kW-scale hydrogen generator using chemical hydride. *Journal of Power Sources*, **2004**, 125, 22-26 8.9 140
- 2 Hydrogen generation by hydrolysis reaction of lithium borohydride. *International Journal of Hydrogen Energy*, **2004**, 29, 1213-1217 6.7 113
- 1 Hydrogen storage of metal nitride by a mechanochemical reaction. *Chemical Communications*, **2004**, 2219-20 3.8 39