

# Yumiko Nakamura

## 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.

107  
papers

2,337  
citations

26  
h-index

44  
g-index

120  
ext. papers

2,505  
ext. citations

4.4  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
107	Unveiling Nanoscale Compositional and Structural Heterogeneities of Highly Textured MgTiH Thin Films. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 6800-6807	5.1	3
106	Metallurgical Synthesis of MgFeSi Hydride: Destabilization of MgFeH Nanostructured in Templated MgSi. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 2758-2764	5.1	2
105	Hydrogen storage properties of Nb-based solid solution alloys with a BCC structure. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 820, 153399	5.7	9
104	Reaction paths via a new transient phase in non-equilibrium hydrogen absorption of LaNi <sub>2</sub> Co <sub>3</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 21655-21665	6.7	4
103	Metal hydride actuator for a rescue jack driven by hydrogen desorption. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 29310-29318	6.7	3
102	Effects of substitutional Mo and Cr on site occupation and diffusion of hydrogen in the $\beta$ phase vanadium hydride by first principles calculations. <i>Theoretical Chemistry Accounts</i> , <b>2019</b> , 138, 1	1.9	2
101	Interstitial-atom-induced phase transformation upon hydrogenation in vanadium. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 750, 33-41	5.7	5
100	Development of an in situ synchrotron X-ray total scattering setup under pressurized hydrogen gas. <i>Journal of Applied Crystallography</i> , <b>2018</b> , 51, 796-801	3.8	4
99	Rescue jack system applying hydrogen-absorbing alloys as a pressure source. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 22438-22446	6.7	2
98	Structural Variation of Self-Organized Mg Hydride Nanoclusters in Immiscible Ti Matrix by Hydrogenation. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 11831-11838	5.1	11
97	Effect of CO <sub>2</sub> on hydrogen absorption in Ti-Zr-Mn-Cr based AB <sub>2</sub> type alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 705, 507-516	5.7	8
96	Formation of hydride phase and diffusion of hydrogen in the V <sub>2</sub> H system varied by substitutional Fe. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 6369-6375	6.7	7
95	Effect of dissolved oxygen on hydrogenation of vanadium and hydrogen diffusion in the monohydride phase. <i>Acta Materialia</i> , <b>2016</b> , 103, 23-29	8.4	5
94	High-Pressure-Hydrogen-Induced Spin Reconfiguration in GdFe <sub>2</sub> Observed by <sup>57</sup> Fe-Polarized Synchrotron Radiation Mössbauer Spectroscopy with Nuclear Bragg Monochromator. <i>Journal of the Physical Society of Japan</i> , <b>2016</b> , 85, 123707	1.5	1
93	Dependence of constituent elements of AB <sub>5</sub> type metal hydrides on hydrogenation degradation by CO <sub>2</sub> poisoning. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 647, 198-203	5.7	10
92	Cost reduction possibilities of vanadium-based solid solutions [Microstructural, thermodynamic, cyclic and environmental effects of ferrovanadium substitution. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 648, 1024-1030	5.7	18
91	Melting of Pb Charge Glass and Simultaneous Pb-Cr Charge Transfer in PbCrO <sub>3</sub> as the Origin of Volume Collapse. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12719-28	16.4	35

90	Compositional Dependence of Hydrogenation Properties in $Ti_{1+y}(Fe_{1-x}Mn_x)_{1-y}$ ( $0.2 \leq x \leq 0.5$ , $0 \leq y \leq 0.08$ ). <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 79, 112-117	0.4	2
89	Effect of a Quenching Rate on Hydrogen Storage Properties of $V_{0.79}Ti_{0.2}Zr_{0.01}$ . <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 79, 131-136	0.4	
88	Observation of Transient Structural Changes on Hydrogen Absorption Process of $LaNi_{4.75}Sn_{0.25}$ by Time Resolved X-Ray Diffraction. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 79, 124-130	0.4	3
87	Development of $Zr_xTi_{1-x}Mn_{0.8}V_{0.2}Ni_{0.9}M_{0.1}$ (M=Ni, Al, Fe, Cu) Alloys for a Soft Actuator Using Hydrogen Storage Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2015</b> , 79, 257-264	0.4	2
86	Enhancement of hydrogen diffusion in the body-centered tetragonal monohydride phase of the $VH$ system by substitutional Al studied by proton nuclear magnetic resonance. <i>Acta Materialia</i> , <b>2015</b> , 83, 479-487	8.4	15
85	Hydrogenation of a TiFe-based alloy at high pressures and temperatures. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 3283-3287	6.7	14
84	Synthesis and structural study of Ti-rich $Mg_{1-x}Ti_x$ hydrides. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 593, 132-136	5.7	13
83	Effect of oxygen on the microstructure and hydrogen storage properties of $V_{1-x}Ti_xFe$ quaternary solid solutions. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 20000-20008	6.7	18
82	Degradation Mechanism against Hydrogenation Cycles in $Mg_{2-x}Pr_xNi_4$ ( $x=0.6$ and $1.0$ ). <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6697-6705	3.8	17
81	Reduction and unusual recovery in the reversible hydrogen storage capacity of $V_{1-x}Ti_x$ during hydrogen cycling. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10546-10551	6.7	11
80	Development of Ti–Zr–Mn Based Hydrogen Storage Alloys for a Soft Actuator. <i>Materials Transactions</i> , <b>2014</b> , 55, 1168-1174	1.3	5
79	Improving the Cyclic Stability of V–Ti–Mn bcc Alloys Using Interstitial Elements. <i>Materials Transactions</i> , <b>2014</b> , 55, 1144-1148	1.3	6
78	In situ XRD study of $La_2Ni_7H(x)$ during hydrogen absorption-desorption. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 10105-11	5.1	16
77	Origin of Degradation in the Reversible Hydrogen Storage Capacity of $V_{1-x}Ti_x$ Alloys from the Atomic Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 26543-26550	3.8	36
76	In situ synchrotron $^{57}Fe$ Mössbauer spectroscopy of $RFe_2$ ( $R = Y, Gd$ ) hydrides synthesized under ultra-high-pressure hydrogen. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 580, S264-S267	5.7	5
75	Crystal structure and local structure of $Mg_{2-x}Pr_xNi_4$ ( $x = 0.6$ and $1.0$ ) deuteride using in situ neutron total scattering. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 7010-9	5.1	23
74	Control of the orientation and photoinduced phase transitions of macrocyclic azobenzene. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 17391-7	4.8	55
73	An in situ Mössbauer study using synchrotron radiation <b>2013</b> , 139-142		

72	Effect of Rare Earth Elements and Alloy Composition on Hydrogenation Properties and Crystal Structures of Hydrides in Mg <sub>2</sub> RExNi <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 19156-19163	3.8	29
71	In Situ X-ray Diffraction Study of Phase Transformation of Mg <sub>2</sub> PrxNi <sub>4</sub> during Hydrogenation and Dehydrogenation (x = 0.6 and 1.0). <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1401-1407	3.8	19
70	Identification of Vacancy Formation Sites in LaNi <sub>5</sub> Cu During Hydrogenation Using in Situ Coincidence Doppler Broadening Technique. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22238-22244	3.8	3
69	Effect of substitutional Cr on hydrogen diffusion and thermal stability for the BCT monohydride phase of the VFe system studied by <sup>1</sup> H NMR. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 524, 63-68	5.7	15
68	High-energy Composite Layered manganese-rich cathode materials via controlling Li <sub>2</sub> MnO <sub>3</sub> phase activation for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 6584-95	3.6	232
67	An in situ Mössbauer study using synchrotron radiation. <i>Hyperfine Interactions</i> , <b>2012</b> , 204, 139-142	0.8	2
66	Variation in the ratio of Mg <sub>2</sub> Co and MgCo <sub>2</sub> in amorphous-like mechanically alloyed Mg <sub>x</sub> Co <sub>100-x</sub> using atomic pair distribution function analysis. <i>Zeitschrift für Kristallographie</i> , <b>2012</b> , 227, 299-303		9
65	Hydrogenation Properties of Ternary Intermetallic Compounds Mg <sub>2-x</sub> PrxNi <sub>4</sub> . <i>Materials Transactions</i> , <b>2012</b> , 53, 513-517	1.3	18
64	Structural Studies of Hydrogen Storage Alloys using X-ray/Neutron Diffraction and Total Scattering. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1334, 20601		
63	In situ atomic force microscopy observation of hydrogen absorption/desorption by Palladium thin film. <i>Applied Surface Science</i> , <b>2011</b> , 258, 1456-1459	6.7	5
62	Hydrogenation properties of Ti <sub>1-x</sub> Mn alloys with a BCC structure containing high and low oxygen concentrations. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 1841-1847	5.7	23
61	Microstructure of Ti <sub>1-x</sub> Mn BCC alloys before and after hydrogen absorption/desorption. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4352-4356	5.7	19
60	Lattice defects introduced into LaNi <sub>5</sub> -based alloys during hydrogen absorption/desorption cycling. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 7498-7503	5.7	25
59	Decomposition of Magnesium Hydride Fiber Observed Using TEM and In-Situ AFM. <i>Materials Transactions</i> , <b>2011</b> , 52, 481-485	1.3	2
58	Hydrogen Vibrational Excitation Spectra of CaF <sub>2</sub> -Type Metal Hydrides Synthesized from Ti-Based BCC Solid Solution Alloys. <i>Materials Transactions</i> , <b>2011</b> , 52, 591-594	1.3	1
57	Phase Transformation and Lattice-Strain Formation in Ti <sub>1.0V1.1Mn0.9</sub> during First Absorption and Desorption. <i>Materials Transactions</i> , <b>2011</b> , 52, 586-590	1.3	4
56	Hydrogen absorption kinetics of magnesium fiber prepared by vapor deposition. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 14488-14495	6.7	18
55	Synthesis and crystal structure of a Pr <sub>5</sub> Ni <sub>19</sub> superlattice alloy and its hydrogen absorption-desorption property. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 4548-52	5.1	26

54	Local Structural Evolution of Mechanically Alloyed Mg <sub>50</sub> Co <sub>50</sub> Using Atomic Pair Distribution Function Analysis. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7723-7728	3.8	16
53	Insight into the Hydrogenation Properties of Mechanically Alloyed Mg <sub>50</sub> Co <sub>50</sub> from the Local Structure. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20335-20341	3.8	22
52	Reversible Vacancy Formation and Recovery during Dehydrogenation/Hydrogenation Cycling of Ti-Doped NaAlH <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6869-6873	3.8	20
51	Phase transformation and crystal structure of La <sub>2</sub> Ni <sub>7</sub> H <sub>x</sub> studied by in situ X-ray diffraction. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 8763-8	5.1	28
50	Controlled shape of magnesium hydride synthesized by chemical vapor deposition. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 507, 502-507	5.7	12
49	Effect of substitutional Mo on diffusion and site occupation of hydrogen in the BCT monohydride phase of V/H system studied by <sup>1</sup> H NMR. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 507, 399-404	5.7	19
48	The nanostructure and hydrogenation reaction of Mg <sub>50</sub> Co <sub>50</sub> BCC alloy prepared by ball-milling. <i>Nanotechnology</i> , <b>2009</b> , 20, 204015	3.4	20
47	Distribution of hydrogen in metal hydrides studied by in situ powder neutron diffraction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2009</b> , 600, 297-300	1.2	12
46	Development of an energy-domain <sup>57</sup> Fe-Mössbauer spectrometer using synchrotron radiation and its application to ultrahigh-pressure studies with a diamond anvil cell. <i>Journal of Synchrotron Radiation</i> , <b>2009</b> , 16, 723-9	2.4	60
45	Structural Study of La <sub>4</sub> MgNi <sub>19</sub> Hydride by In Situ X-ray and Neutron Powder Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5853-5859	3.8	65
44	Behavior of vacancy formation and recovery during hydrogenation cycles in LaNi <sub>4.93</sub> Sn <sub>0.27</sub> . <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 205-211	5.7	13
43	Dehydrogenation reaction of LiMg <sub>2</sub> Ni <sub>2</sub> systems studied by in situ synchrotron powder X-ray diffraction and powder neutron diffraction. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 457, 362-367	5.7	36
42	Investigations on the Formation and Decomposition Behaviors of BaAlH <sub>5</sub> and Ba <sub>2</sub> AlH <sub>7</sub> . <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 17423-17426	3.8	5
41	The crystal structure of LiND <sub>2</sub> and Mg(ND <sub>2</sub> ) <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 428, 297-301	5.7	67
40	Variation of hydrogen occupation in LaNi <sub>4.78</sub> Sn <sub>0.22</sub> D <sub>x</sub> along the P-T isotherms studied by in situ neutron powder diffraction. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 431, 148-154	5.7	13
39	EXAFS study of LaNi <sub>5</sub> and LaNi <sub>4.5</sub> Al <sub>0.5</sub> . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 433, 33-36	5.7	7
38	Phase transformation in La(Co <sub>x</sub> Ni <sub>5-x</sub> ) <sub>2</sub> systems (x = 2, 3, 5) studied by in situ X-ray diffraction. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 413, 54-62	5.7	14
37	Characterization of Al <sub>2</sub> phases in cycled TiF <sub>3</sub> -enhanced Na <sub>2</sub> LiAlH <sub>6</sub> . <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 416, 274-278	5.7	18

36	Phase transformation in hydrogenation and dehydrogenation of $\text{LaCo}_5\text{Al}_x\text{H}_2$ ( $x=0, 0.25$ ) systems. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 425, 424-428	5-7	2
35	Lattice Defect Behavior of $\text{LaNi}_{4.97}\text{Sn}_{0.27}$ during Hydrogenation Cycles. <i>Materials Transactions</i> , <b>2006</b> , 47, 1875-1877	1-3	1
34	Average and Local Structures in Hydrogen Absorbing Ti-Cr-Mo Alloy. <i>Materials Transactions</i> , <b>2006</b> , 47, 271-274	1-3	8
33	Hydrogen absorption-desorption properties and crystal structure analysis of Ti-Cr-Mo alloys. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 404-406, 99-102	5-7	12
32	The observation of the lattice defect formation during the hydrogenation and dehydrogenation in $\text{La}(\text{Ni},\text{Sn})_5$ by in-situ positron lifetime measurement. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 885, 1		1
31	?????????????????????. <i>Electrochemistry</i> , <b>2005</b> , 73, 88-92	1-2	
30	In situ X-ray and neutron powder diffraction study of $\text{LaNi}_{5-x}\text{Sn}_x\text{-H}$ systems. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 837, 19		1
29	Nano scale structure such as nano-size crystallites and defects can be found in conventional hydrogen absorbing alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 108, 60-66	3-1	3
28	Strain formation and lattice parameter change in $\text{LaNi}_{4.75}\text{Sn}_{0.25}\text{H}$ system during the initial activation process. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 373, 183-193	5-7	39
27	Crystal structure and hydrogen occupation of $\text{LaNi}_{4.9}\text{Al}_{0.1}\text{D}_x$ ( $5.0 \leq x \leq 6.1$ ) on the desorption isotherm studied by in situ neutron powder diffraction. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 384, 195-202	5-7	12
26	Hydrogen absorbing properties and structures of Ti-Cr-Mo alloys. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 356-357, 452-455	5-7	40
25	Hydrogen-induced phase decomposition of $\text{Ba}_7\text{Al}_{13}$ and the crystal structure of $\text{Ba}_2\text{AlH}_7$ . <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 361, 180-186	5-7	23
24	Crystal structural studies of AB <sub>5</sub> -type, BCC and Zintl phase hydrogen absorbing alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 329-331, 321-324	5-3	4
23	Defects Formation in $\text{LaNi}_5$ -based Alloys Investigated by In-situ X-ray Diffraction. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		2
22	Crystal Structure and Morphology of Hydrogen Absorbing Alloys with BCC Structure. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 753, 1		
21	New alkaline earth aluminum hydride with one-dimensional zigzag chains of $[\text{AlH}_6]$ : synthesis and crystal structure of $\text{BaAlH}_5$ . <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 6941-3	5-1	45
20	Synthesis and crystal structure of $\text{Sr}_2\text{AlH}_7$ : a new structural type of alkaline earth aluminum hydride. <i>Inorganic Chemistry</i> , <b>2002</b> , 41, 6547-9	5-1	49
19	In situ X-ray diffraction study of hydrogen-induced phase decomposition in $\text{LaMg}_{12}$ and $\text{La}_2\text{Mg}_{17}$ . <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 333, 103-108	5-7	47

18	Hydriding properties and crystal structure of NaCl-type mono-hydrides formed from Ti <sub>1-x</sub> Mn BCC solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 345, 175-182	5.7	46
17	Hydrogenation properties and crystal structures of Ti <sub>1-x</sub> Mn-V BCC solid solution alloys. <i>Metals and Materials International</i> , <b>2001</b> , 7, 165-168	2.4	9
16	Crystal structure of two hydrides formed from a Ti <sub>1-x</sub> Mn BCC solid solution alloy studied by time-of-flight neutron powder diffraction. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 316, 284-289	5.7	52
15	Study of Mg-M (M=Co, Ni and Fe) mixture elaborated by reactive mechanical alloying. Hydrogen sorption properties. <i>International Journal of Hydrogen Energy</i> , <b>2000</b> , 25, 987-996	6.7	184
14	X-ray diffraction peak broadening and degradation in LaNi <sub>5</sub> -based alloys. <i>International Journal of Hydrogen Energy</i> , <b>2000</b> , 25, 531-537	6.7	31
13	In-situ X-ray diffraction study on LaNi <sub>5</sub> and LaNi <sub>4.75</sub> Al <sub>0.25</sub> in the initial activation process. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 308, 309-318	5.7	68
12	New hydride phase with a deformed FCC structure in the Ti <sub>1-x</sub> Mn solid solution-hydrogen system. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 311, 317-321	5.7	41
11	Hydrogen isotope effects in Ti <sub>1.0</sub> Mn <sub>0.9</sub> V <sub>1.1</sub> and Ti <sub>1.0</sub> Cr <sub>1.5</sub> V <sub>1.7</sub> alloys. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 297, 253-260	5.7	20
10	X-ray diffraction peak broadening and lattice strain in LaNi <sub>5</sub> -based alloys. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 298, 138-145	5.7	57
9	Synthesis of magnesium and titanium hydride via reactive mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2000</b> , 298, 279-284	5.7	81
8	Stability of LaNi <sub>5-x</sub> Al <sub>x</sub> alloys (x=0~0.5) during hydriding and dehydriding cycling in hydrogen containing O <sub>2</sub> and H <sub>2</sub> O. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 268, 207-210	5.7	23
7	Lattice expanding behaviour and degradation of LaNi <sub>5</sub> -based alloys. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 267, 205-210	5.7	37
6	A method for designing a hydrogen absorbing LaNi <sub>5-x</sub> Mn <sub>x</sub> Al <sub>y</sub> alloy for a chemical refrigeration system. <i>Journal of Alloys and Compounds</i> , <b>1997</b> , 252, 83-87	5.7	21
5	Cycle performance of a hydrogen-absorbing La <sub>0.8</sub> Y <sub>0.2</sub> Ni <sub>4.8</sub> Mn <sub>0.2</sub> Alloy. <i>International Journal of Hydrogen Energy</i> , <b>1996</b> , 21, 457-460	6.7	21
4	Characteristics of a hydrogen-absorbing alloy developed for a portable fuel cell. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 231, 898-902	5.7	7
3	Influence of annealing on hydrogenation characteristics and microstructure of LaNi <sub>4.55</sub> Al <sub>0.45</sub> alloy. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 218, 216-220	5.7	23
2	Homogenizing behaviour in a hydrogen-absorbing LaNi <sub>4.55</sub> Al <sub>0.45</sub> alloy through annealing and rapid quenching. <i>Journal of Alloys and Compounds</i> , <b>1994</b> , 210, 299-303	5.7	57
1	Homogenizing Behaviour and Pressure-Composition Isotherms of Hydrogen in LaNi <sub>4.55</sub> Al <sub>0.45</sub> Alloy during Annealing. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>1993</b> , 57, 1465-1470 <sup>0.4</sup>		1

