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Hydrogen storage properties of new ternary system alloys:  $\text{La}_2\text{MgNi}_9$ ,  $\text{La}_5\text{Mg}_2\text{Ni}_{23}$ ,  $\text{La}_3\text{MgNi}_{14}$

DOI: 10.1016/s0925-8388(00)01119-1

Journal of Alloys and Compounds, 2000, 311, L5-L7.

**Source:** <https://exaly.com/paper-pdf/32058865/citation-report.pdf>

**Version:** 2024-04-25

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#	Paper	IF	Citations
492	Structural and hydriding properties of (Mg <sub>1-x</sub> Ca <sub>x</sub> )Ni <sub>2</sub> Laves phase alloys. <i>Journal of Alloys and Compounds</i> , <b>2001</b> , 327, 275-280	5.7	33
491	ChemInform Abstract: Hydrogen Storage Properties of New Ternary System Alloys: La <sub>2</sub> MgNi <sub>9</sub> , La <sub>5</sub> Mg <sub>2</sub> Ni <sub>23</sub> , La <sub>3</sub> MgNi <sub>14</sub> .. <b>2001</b> , 32, no-no		1
490	In situ X-ray diffraction study of hydrogen-induced phase decomposition in LaMg <sub>12</sub> and La <sub>2</sub> Mg <sub>17</sub> . <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 333, 103-108	5.7	47
489	A Study of the Structural and Electrochemical Properties of La <sub>[sub 0.7]</sub> Mg <sub>[sub 0.3]</sub> (Ni <sub>[sub 0.85]</sub> Co <sub>[sub 0.15]</sub> ) <sub>[sub x]</sub> (x=2.5-5.0) Hydrogen Storage Alloys. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A565	3.9	152
488	An investigation on the structural and electrochemical properties of La <sub>0.7</sub> Mg <sub>0.3</sub> (Ni <sub>0.85</sub> Co <sub>0.15</sub> ) <sub>x</sub> (x=3.15-8.0) hydrogen storage electrode alloys. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 351, 228-234	5.7	135
487	Electrochemical properties of the ball-milled La <sub>1.8</sub> Ca <sub>0.2</sub> Mg <sub>14</sub> Ni <sub>3+xwt%Ni</sub> composites (x=0, 50, 100 and 200). <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 354, 120-123	5.7	34
486	The electrochemical properties of La Mg <sub>3</sub> Ni <sub>9</sub> (x=1.0-2.0) hydrogen storage alloys. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 356-357, 746-749	5.7	110
485	Structural and thermodynamic studies of some hydride forming RM <sub>3</sub> -type compounds (R=lanthanide, M=transition metal). <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 356-357, 461-468	5.7	41
484	Properties of hydrogen storage alloy Mg <sub>2-x</sub> Ag <sub>x</sub> Ni (x=0.05, 0.1, 0.5) by hydriding combustion synthesis. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 359, 128-132	5.7	18
483	Hydriding properties of ordered-/disordered-Mg-based ternary Laves phase structures. <i>Journal of Alloys and Compounds</i> , <b>2003</b> , 356-357, 429-432	5.7	18
482	Microstructure of Mg <sub>3</sub> Ni thin film prepared by direct current magnetron sputtering and its properties as a negative electrode. <b>2003</b> , 21, 1905-1908		9
481	Development of Mg-Added MmNi <sub>[sub 5]</sub> -Based Alloys with Low Co Content for High Power Applications. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A1684	3.9	11
480	Structural and Electrochemical Properties of the La <sub>[sub 0.7]</sub> Mg <sub>[sub 0.3]</sub> Ni <sub>[sub 2.975-x]</sub> Co <sub>[sub 0.525]</sub> Mn <sub>[sub x]</sub> Hydrogen Storage Electrode Alloys. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A374	3.9	27
479	Electrochemical studies on La <sub>0.7</sub> Mg <sub>0.3</sub> Ni <sub>3.4-x</sub> Co <sub>0.6</sub> Mn <sub>x</sub> metal hydride electrode alloys. <i>Materials Chemistry and Physics</i> , <b>2004</b> , 84, 171-181	4.4	15
478	Influence of Mn content on the structural and electrochemical properties of the La <sub>0.7</sub> Mg <sub>0.3</sub> Ni <sub>4.25-x</sub> Co <sub>0.75</sub> Mn <sub>x</sub> hydrogen storage alloys. <b>2004</b> , 372, 163-172		29
477	Effect of the La/Mg ratio on the structure and electrochemical properties of La <sub>x</sub> Mg <sub>3-x</sub> Ni <sub>9</sub> (x=1.6-2.2) hydrogen storage electrode alloys for nickel-metal hydride batteries. <i>Journal of Power Sources</i> , <b>2004</b> , 129, 358-367	8.9	184
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47 <sup>o</sup>	Preparation of $LaMgNi_4$ alloy and its electrode properties. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 377, L7-L9	5-7	49
469	Investigation on the microstructure and electrochemical performances of $La_2Mg(Ni_{0.85}Co_{0.15})_9B$ ( $x=0-0.2$ ) hydrogen storage electrode alloys prepared by casting and rapid quenching. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 379, 298-304	5-7	19
468	Preparation and electrode properties of new ternary alloys: $REMgNi_4$ (RE = La, Ce, Pr, Nd). <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 384, 279-282	5-7	42
467	Formation of $MgCNi_3$ and $MgNi$ amorphous mixture by mechanical alloying of $MgNi_3$ system. <b>2004</b> , 58, 2203-2206		15
466	Electrochemical characteristics and microstructures of rapidly quenched $Ti_{0.5}Zr_{0.5}Mn_{0.2}Cr_{0.5}V_{0.2}Ni_{0.95}$ alloy. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 364, 289-294	5-7	4
465	Hydrogen storage and electrochemical properties of the $La_{0.7}Mg_{0.3}Ni_{3.825}Co_{0.675}Mn_x$ hydrogen storage electrode alloys. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 365, 246-252	5-7	49
464	Hydrogenation Properties of $CaMg_2$ Based Alloys. <b>2004</b> , 45, 2594-2597		9
463	Crystal Structure of Hydrogen Storage Alloys, La-Mg-Nix ( $x=3-4$ ) System. <b>2005</b> , 69, 170-178		4
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461	Crystal Structures of La-Mg-Nix ( $x=3-4$ ) System Hydrogen Storage Alloys. <b>2005</b> , 46, 1393-1401		49
46 <sup>o</sup>	Microstructures and electrochemical performances of $La_2Mg(Ni_{0.85}Co_{0.15})_9Cr_x$ ( $x=0-0.2$ ) electrode alloys prepared by casting and rapid quenching. <i>Journal of Power Sources</i> , <b>2005</b> , 144, 255-261	8,9	2
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45 <sup>8</sup>	Effect of La/Ce ratio on the structure and electrochemical characteristics of $La_{0.7}Ce_xMg_{0.3}Ni_{2.8}Co_{0.5}$ ( $x = 0.1-0.5$ ) hydrogen storage alloys. <b>2005</b> , 50, 1957-1964		32

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438	Effects of annealing temperature on structure and the electrochemical properties of La <sub>0.7</sub> Mg <sub>0.3</sub> Ni <sub>2.45</sub> Co <sub>0.75</sub> Mn <sub>0.1</sub> Al <sub>0.2</sub> hydrogen storage alloy. <i>Journal of Alloys and Compounds</i> , <b>2005</b> , 397, 306-312	5-7	64
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175	Study of the hydrogen-induced amorphization in the LaNi <sub>2.28</sub> alloy. <b>2014</b> , 4, 27207-27212		1
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173	An investigation on electrochemical and gaseous hydrogen storage performances of as-cast La <sub>1-x</sub> Pr <sub>x</sub> MgNi <sub>3.6</sub> Co <sub>0.4</sub> (x=0-100) alloys. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 14282-14287	6.7	40
172	Effects of surface coating with polyaniline on electrochemical properties of LaMgNi-based electrode alloys. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10374-10379	6.7	20
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169	Hydrogen induced amorphization behaviors of multiphase La <sub>0.8</sub> Mg <sub>0.2</sub> Ni <sub>3.5</sub> alloy. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 7093-7102	6.7	20
168	Hydrogenation behavior of the R <sub>4</sub> MgCo (R=Y, La, Nd, Tb) compounds. <b>2015</b> , 229, 135-140		10
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166	Influence of kinetics of hydrogen transport in a metal hydride anode on the discharge properties of the Ni/MH batteries. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 629, 242-246	5.7	5
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160	Electrochemical properties of M <sub>1</sub> Ni <sub>3.5</sub> Co <sub>0.6</sub> Mn <sub>0.4</sub> Al <sub>0.5</sub> wt% Mn <sub>0.89</sub> Mg <sub>0.11</sub> Ni <sub>2.97</sub> Mn <sub>0.14</sub> Al <sub>0.20</sub> Co <sub>0.54</sub> composites. <i>Rare Metals</i> , <b>2015</b> , 34, 338-343	5.5	
159	Microstructural Transformation and Electrochemical Properties of Mg-Ni-Y-La Amorphous Alloy. <b>2015</b> , 44, 854-858		2
158	Optimization of the La substitution by Mg in the La <sub>2</sub> Ni <sub>7</sub> hydride-forming system for use as negative electrode in Ni-MH battery. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 17017-17020	6.7	15
157	Effects of stoichiometric ratio La/Mg on structures and electrochemical performances of as-cast and annealed La <sub>1-x</sub> Mg <sub>x</sub> Ni-based A2B7-type electrode alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2015</b> , 25, 1968-1977	3.3	11
156	Enhanced cycling stability and high rate dischargeability of (La,Mg) <sub>2</sub> Ni <sub>7</sub> -type hydrogen storage alloys with (La,Mg) <sub>5</sub> Ni <sub>19</sub> minor phase. <i>Journal of Power Sources</i> , <b>2015</b> , 287, 237-246	8.9	38
155	Improved electrochemical kinetic performances of La-Mg-Ni-based hydrogen storage alloys with lanthanum partially substituted by yttrium. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 397-402	3.7	14
154	Effect of annealing treatment on the anti-pulverization and anti-corrosion properties of La <sub>0.67</sub> Mg <sub>0.33</sub> Ni <sub>2.5</sub> Co <sub>0.5</sub> hydrogen storage alloy. <i>Journal of Rare Earths</i> , <b>2015</b> , 33, 417-424	3.7	13
153	Effects of Annealing Temperature on the Electrochemical Hydrogen Storage Behaviors of La-Mg-Ni-Based A2B7-Type Electrode Alloys. <b>2015</b> , 46, 2294-2303		5
152	Structural and Hydrogen Storage Properties of Y <sub>2</sub> Ni <sub>7</sub> Deuterides Studied by Neutron Powder Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12218-12225	3.8	22

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147	Effect of the temperature on electrode performance of the as cast La <sub>0.7</sub> Mg <sub>0.3</sub> (NiMnCo) <sub>3.5</sub> alloy. <b>2015</b> , 51, 638-644		
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143	Phase transformation and electrochemical properties of La <sub>0.70</sub> Mg <sub>0.30</sub> Ni <sub>3.3</sub> super-stacking metal hydride alloy. <b>2015</b> , 58, 65-70		18
142	Cooperative effects of Sm and Mg on electrochemical performance of LaMgNi-based alloys with A <sub>2</sub> B <sub>7</sub> - and A <sub>5</sub> B <sub>19</sub> -type super-stacking structure. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 1116-1127	6-7	35
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112	Effect of non-stoichiometry on microstructure and electrochemical performance of La <sub>0.8</sub> Gd <sub>x</sub> Mg <sub>0.2</sub> Ni <sub>3.15</sub> Co <sub>0.25</sub> Al <sub>0.1</sub> (x = 0.4) hydrogen storage alloys. <i>Journal of Power Sources</i> , <b>2016</b> , 301, 229-236	8.9	36
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110	Partial substitution of cobalt for nickel in mixed rare earth metal based superlattice hydrogen absorbing alloy [Part 1 structural, hydrogen storage and electrochemical properties. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 660, 407-415	5.7	21
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89	Effects of coating layers on electrochemical properties of Nd Mg Ni-based alloys. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 19148-19155	6.7	17
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67	Microstructure, hydrogen storage thermodynamics and kinetics of La <sub>5</sub> Mg <sub>95-x</sub> Ni <sub>x</sub> (x=5, 10, 15) alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2019</b> , 29, 1057-1066	3.3	5
66	Experimental and Theoretical Investigations on the Influence of A on the Hydrogen Sorption Properties of ANi <sub>y</sub> Compounds, A = {Y, Sm, Gd}. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23334-23341	3.8	4
65	Effect of reduced graphene oxide-supported copper addition on electrochemical properties of La <sub>0.7</sub> Mg <sub>0.3</sub> Ni <sub>2.8</sub> Co <sub>0.5</sub> electrodes. <i>Journal of Rare Earths</i> , <b>2019</b> , 37, 1312-1319	3.7	0
64	Structure and hydrogen storage properties of AB <sub>3</sub> -type Re <sub>2</sub> Mg(Ni <sub>0.7-1-x</sub> Co <sub>0.2</sub> Mn <sub>0.1</sub> Al <sub>x</sub> ) <sub>9</sub> (x = 0-0.04) alloys. <i>Materials for Renewable and Sustainable Energy</i> , <b>2019</b> , 8, 1	4.7	2
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62	Structure and hydrogen storage properties of La <sub>1-x</sub> Pr <sub>x</sub> MgNi <sub>3.6</sub> Co <sub>0.4</sub> (x = 0.4) alloys prepared by melt spinning. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 29590-29596	6.7	2

61	Electrochemical Behavior of a Nanostructured La <sub>1.25</sub> Gd <sub>0.25</sub> Mg <sub>0.5</sub> Ni <sub>7</sub> Hydrogen Storage Material Modified with Magnetron Sputtered Nickel. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1393-A1399	3.9	0
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58	The dual capacity of the NiSn alloy/MWCNT nanocomposite for sodium and hydrogen ions storage using porous Cu foam as a current collector. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 6674-6686	6.7	3
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56	Influence of annealing time on electrochemical hydrogen storage properties of La <sub>0.5</sub> Nd <sub>0.05</sub> Sm <sub>0.3</sub> Mg <sub>0.15</sub> Ni <sub>3.5</sub> alloys. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	1
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54	Hydrogen storage properties of La <sub>1-x</sub> Pr <sub>x</sub> MgNi <sub>3.6</sub> Co <sub>0.4</sub> (x = 0.4) alloys with annealing treatment. <i>Rare Metals</i> , <b>2019</b> , 38, 871-876	5.5	2
53	Structures and hydrogen storage properties of RE-Mg-Ni-Mn-based AB <sub>2</sub> -type alloys prepared by casting and melt spinning. <i>Rare Metals</i> , <b>2019</b> , 38, 1086-1096	5.5	2
52	Electrochemical hydrogen storage behaviors of as-cast and spun RE-Mg-Ni-Co-Al-based AB <sub>2</sub> -type alloys applied to Ni-MH battery. <i>Rare Metals</i> , <b>2020</b> , 39, 181-192	5.5	10
51	Synergistic effects of Gd and Co on the phase evolution mechanism and electrochemical performances of CeNi-type La-Mg-Ni-based alloys. <i>Dalton Transactions</i> , <b>2020</b> , 49, 156-163	4.3	3
50	Influence of the synthesis route on hydrogen sorption properties of La <sub>2</sub> MgNi <sub>7</sub> Co <sub>2</sub> alloy. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 1492-1498	6.7	3
49	Exploits, advances and challenges benefiting beyond Li-ion battery technologies. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 817, 153261	5.7	79
48	Influence of melt spinning and annealing treatment on structures and hydrogen storage thermodynamic properties of La <sub>0.8</sub> Pr <sub>0.2</sub> MgNi <sub>3.6</sub> Co <sub>0.4</sub> alloy. <i>Journal of Iron and Steel Research International</i> , <b>2020</b> , 27, 114-120	1.2	1
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46	Ni/Cd and Ni-MH The Transition to Charge Carrier-Based Batteries. <b>2020</b> , 1-36		
45	Nickel-Metal Hydride (Ni-MH) Batteries. <b>2020</b> , 131-175		1
44	Effect of Substitutional Elements on the Thermodynamic and Electrochemical Properties of Mechanically Alloyed La <sub>1.5</sub> Mg <sub>0.5</sub> Ni <sub>7</sub> -M <sub>x</sub> alloys (M = Al, Mn). <i>Metals</i> , <b>2020</b> , 10, 578	2.3	2

43	Thermodynamic and corrosion study of $\text{Sm}_{1-x}\text{Mg}_x\text{Ni}_y$ ( $y = 3.5$ or $3.8$ ) compounds forming reversible hydrides. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 11686-11694	6.7	6
42	Investigation of H Sorption and Corrosion Properties of $\text{Sm}_2\text{Mn}_x\text{Ni}_7$ ( $0 \leq x \leq 1$ ). <i>Energies</i> , <b>2020</b> , 13, 3470	3.1	4
41	Synthesis of $\text{La}_2\text{MgNi}_9$ hydrogen storage alloy in molten salt. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 8750-8756	6.7	2
40	An alternative for the anode materials of nickel metal hydride batteries: an AB-type $\text{LaGdMgNiCoAl}$ hydrogen storage alloy. <i>Dalton Transactions</i> , <b>2020</b> , 49, 6312-6320	4.3	6
39	Structure and electrochemical properties of $\text{La}_{1-x}\text{Mg}_x\text{Ni}_{2.8}\text{Co}_{0.4}\text{Mn}_{0.1}\text{Al}_{0.2}$ ( $x = 0.25, 0.30, 0.33$ ) hydrogen storage alloys. <i>Rare Metals</i> , <b>2020</b> , 39, 1464-1468	5.5	2
38	Improvement of reversible H storage capacity by fine tuning of the composition in the pseudo-binary systems $\text{A}_2\text{-LaNi}_7$ ( $\text{A} = \text{Gd, Sm, Y, Mg}$ ). <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 852, 157008	5.7	6
37	Perspectives and challenges of hydrogen storage in solid-state hydrides. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 29, 1-12	3.2	18
36	Zirconium hydride-stabilized yttrium hydride (ZSY): Stabilization of a face-centered cubic $\text{YH}_3$ phase by Zr substitution. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 851, 156071	5.7	1
35	Recent progress of high-entropy materials for energy storage and conversion. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 782-823	13	63
34	The electrochemical characteristics of AB <sub>4</sub> -type rare earth $\text{MgNi}$ -based superlattice structure hydrogen storage alloys for nickel metal hydride battery. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 2039-2039	8.8	3
33	Electrochemical features of Ce <sub>2</sub> Ni <sub>7</sub> -type $\text{La}_{0.65}\text{Nd}_{0.15}\text{Mg}_{0.25}\text{Ni}_{3.20}\text{M}_{0.10}$ ( $\text{M} = \text{Ni, Mn and Al}$ ) hydrogen storage alloys for rechargeable nickel metal hydride battery. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 861, 158469	5.7	2
32	$\text{LaNi}_5$ related AB <sub>5</sub> compounds: Structure, properties and applications. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 862, 158163	5.7	19
31	Phase transformation and hydrogen storage properties of $\text{LaY}_2\text{Ni}_{10.5}$ superlattice alloy with single $\text{Gd}_2\text{Co}_7$ -type or $\text{Ce}_2\text{Ni}_7$ -type structure. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 868, 159254	5.7	4
30	Hydrogen sorption properties of new magnesium intermetallic compounds with $\text{MgSnCu}_4$ type structure. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 25520-25532	6.7	2
29	EBSD microstructural analysis of AB-type $\text{TiFe}$ hydrogen storage alloys. <i>Materials Characterization</i> , <b>2021</b> , 178, 111276	3.9	0
28	Mg-based materials for hydrogen storage. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 1837-1837	8.8	18
27	An improvement of self-discharge properties of Ce <sub>2</sub> Ni <sub>7</sub> -type $\text{La}_{0.65}\text{Ce}_{0.1}\text{Mg}_{0.25}\text{Ni}_{3}\text{Co}_{0.5}$ hydrogen storage alloy produced by the melt-spun processing. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 876, 160183	5.7	2
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22	Metal Hydrides for Energy Storage. <b>2018</b> , 1-36		2
21	Trends in Hydrogen Absorption Alloys.. <i>Denki-seiko</i> , <b>2001</b> , 72, 247-252		1
20	?????????????. <i>Electrochemistry</i> , <b>2004</b> , 72, 647-651	1.2	3
19	Hydrogen storage material as an energy media. <i>Journal of Advanced Science</i> , <b>2008</b> , 20, 68-71	0	
18	Electrochemical Hydrogen Storage Kinetics of the AS-Melt La <sub>0.75</sub> -xMxMg <sub>0.25</sub> Ni <sub>3.2</sub> Co <sub>0.2</sub> Al <sub>0.1</sub> (M=Zr, Pr; x=00.2) Alloys Applied to Ni-MH Battery. <b>2013</b> , 1829-1836		
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14	Structure and magnetic properties of RE <sub>4</sub> Ni <sub>2</sub> Mg <sub>3</sub> with RE = Y, Tb-Tm and Lu [New representatives of the Ru <sub>4</sub> B <sub>2</sub> Al <sub>3</sub> type. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> ,	1.3	
13	Highlighting the stability control of superlattice structures by fine tuning of subunit volumes. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 907, 164448	5.7	0
12	Structural and In Situ X-ray Diffraction Study of Hydrogenation of CaxMg <sub>1-x</sub> Ni <sub>2</sub> (0 ≤ x ≤ 1). <i>Crystals</i> , <b>2022</b> , 12, 47	2.3	
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