Myoung-Youp Song

List of Publications by Year
in descending order

156 papers	1,681 citations	331670 21 h-index	395702 33 g-index
156 all docs	156 docs citations	156 times ranked	923 citing authors

#	Article	IF	Citations
1	Improvement in hydrogen storage characteristics of magnesium by mechanical alloying with nickel. Journal of Materials Science, 1995, 30, 1343-1351.	3.7	97
2	Hydrogen-storage properties of Mgâ€"23.5Niâ€"(0 and 5)Cu prepared by melt spinning and crystallization heat treatment. International Journal of Hydrogen Energy, 2008, 33, 1711-1718.	7.1	79
3	Synthesis by solâ€"gel method and electrochemical properties of LiNiO2 cathode material for lithium secondary battery. Journal of Power Sources, 2002, 111, 97-103.	7.8	72
4	Capacity fading of spinel phase LiMn2O4 with cycling. Journal of Power Sources, 1999, 83, 57-60.	7.8	65
5	Hydrogen storage properties of a Mgâ€"Niâ€"Fe mixture prepared via planetary ball milling in a H2 atmosphere. International Journal of Hydrogen Energy, 2010, 35, 10366-10372.	7.1	63
6	Improvement in the hydrogen storage properties of Mg by mechanical grinding with Ni, Fe and V under H2 atmosphere. International Journal of Hydrogen Energy, 2011, 36, 13587-13594.	7.1	45
7	Synthesis by solâ€"gel method and electrochemical properties of LiNi1âˆ'yAlyO2 cathode materials for lithium secondary battery. Solid State Ionics, 2003, 156, 319-328.	2.7	42
8	Development of AB[sub 2]-Type Zr-Ti-Mn-V-Ni-M Hydride Electrode for Ni-MH Secondary Battery. Journal of the Electrochemical Society, 2001, 148, A1041.	2.9	40
9	Improvement of hydrogen-storage properties of MgH2 by Ni, LiBH4, and Ti addition. International Journal of Hydrogen Energy, 2013, 38, 1910-1917.	7.1	36
10	Hydriding kinetics of a mechanically alloyed mixture Mgâ€"10wt% Ni. International Journal of Hydrogen Energy, 2003, 28, 403-408.	7.1	35
11	Hydrogen-storage properties of Mgâ€"oxide alloys prepared by reactive mechanical grinding. Journal of Alloys and Compounds, 2006, 415, 266-270.	5.5	32
12	Electrochemical properties of LiNi1âˆ'yTiyO2 and LiNi0.975M0.025O2 (M=Zn, Al, and Ti) synthesized by the solid-state reaction method. Materials Research Bulletin, 2012, 47, 1021-1027.	5.2	32
13	Development of a Mg-based hydrogen-storage material by addition of Ni and NbF5 via milling under hydrogen. International Journal of Hydrogen Energy, 2015, 40, 11908-11916.	7.1	28
14	Dehydriding kinetics of a mechanically alloyed mixture Mgâ€"10wt.%Ni. Journal of Alloys and Compounds, 1999, 282, 243-247.	5.5	26
15	Preparation by gravity casting and hydrogen-storage properties of Mgâ€"23.5wt.%Niâ€"(5, 10 and) Tj ETQq1 1 0.784314 rgBT /Overl	5.5	25
16	Synthesis of LiCo1/3Ni1/3Mn1/3O2 by a Simple Combustion Method and Electrochemical Properties. Electronic Materials Letters, 2010, 6, 91-95.	2.2	25
17	Preparation and characterization of NbF 5 -added Mg hydrogen storage alloy. International Journal of Hydrogen Energy, 2014, 39, 16486-16492.	7.1	25
18	Hydrogen Storage Characteristics of Melt Spun Mg-23.5Ni-xCu Alloys and Mg-23.5Ni-2.5Cu Alloy Mixed with Nb2O5 and NbF5. Journal of Korean Institute of Metals and Materials, 2011, 49, 298-303.	1.0	25

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19	On the capacity deterioration of spinel phase LiMn2O4with cycling around 4 V. Solid State Ionics, 1998, 112, 21-24.	2.7	24
20	Effects on the H2-sorption properties of Mg of Co (with various sizes) and CoO addition by reactive grinding. Journal of Alloys and Compounds, 2004, 366, 279-288.	5.5	24
21	Rate enhancement of hydrogen generation through the reaction of magnesium hydride with water by MgO addition and ball milling. Journal of Industrial and Engineering Chemistry, 2012, 18, 405-408.	5.8	24
22	Cycling performance of LiNi1âˆ’yMyO2 (M=Ni, Ga, Al and/or Ti) synthesized by wet milling and solid-state method. Metals and Materials International, 2012, 18, 465-472.	3.4	21
23	Hydrogen-storage properties of gravity cast and melt spun Mgâ€“Niâ€“Nb2O5 alloys. International Journal of Hydrogen Energy, 2009, 34, 1944-1950.	7.1	18
24	Variations in the electrochemical properties of metallic elements-substituted LiNiO2 cathodes with preparation and cathode fabrication conditions. Electronic Materials Letters, 2012, 8, 37-42.	2.2	18
25	Electrochemical properties of LiNiO2 substituted by Al or Ti for Ni via the combustion method. Ceramics International, 2014, 40, 14141-14147.	4.8	18
26	Changes in microstructure, phases, and hydrogen storage characteristics of metal hydro-borate and nickel-added magnesium hydride with hydrogen absorption and release reactions. International Journal of Hydrogen Energy, 2017, 42, 1018-1026.	7.1	18
27	Hydrogen storage properties of a Ni, Fe and Ti-added Mg-based alloy. Metals and Materials International, 2012, 18, 279-286.	3.4	17
28	Development of AB2-type Zrâ€“Tiâ€“Mnâ€“Vâ€“Niâ€“Fe hydride electrodes for Niâ€“MH secondary batteries. Journal of Alloys and Compounds, 2000, 298, 254-260.	5.5	16
29	Preparation of a Mg-Based alloy with a high hydrogen-storage capacity byÂadding a polymer CMC via milling in a hydrogen atmosphere. International Journal of Hydrogen Energy, 2019, 44, 3779-3789.	7.1	16
30	Improvement of hydriding and dehydriding rates of Mg via addition of transition elements Ni, Fe, and Ti. International Journal of Hydrogen Energy, 2011, 36, 12932-12938.	7.1	15
31	Hydrogen desorption and absorption properties of Pd and MgO or nano-sized Ni-added MgH2+LiBH4 composites. Materials Research Bulletin, 2013, 48, 3453-3458.	5.2	15
32	Enhancement of hydrogen-storage performance of MgH2 by Mg2Ni formation and hydride-forming Ti addition. International Journal of Hydrogen Energy, 2012, 37, 18133-18139.	7.1	14
33	Electrochemical performances of LiNiO2 substituted by Ti for Ni via the combustion method. Ceramics International, 2014, 40, 11131-11137.	4.8	14
34	Hydrogen-storage performance of an Mgâ€“Niâ€“Fe alloy prepared by reactive mechanical grinding. Journal of Materials Science, 2009, 44, 4827-4833.	3.7	12
35	Nucleation and growth behaviors of hydriding and dehydriding reactions of Mg2Ni. Materials Research Bulletin, 2018, 99, 23-28.	5.2	12
36	Formation of a High Pressure Form of Magnesium Hydride Î³-MgH2 by Mechanical Grinding under Low Hydrogen Pressure. Journal of Korean Institute of Metals and Materials, 2013, 51, 119-123.	1.0	12

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37	Electrochemical properties of LiCoyMn2â˘’yO4 synthesized by the combustion method for lithium secondary battery. Solid State Ionics, 2003, 158, 103-111.	2.7	11
38	Electrochemical properties of Li1â˘’z (Ni1â˘’y Fe y)1+z O2 synthesized by the combustion method in an air atmosphere. Journal of Applied Electrochemistry, 2009, 39, 617-625.	2.9	11
39	Electrochemical properties of LiNi1â˘’y M y O2 (M=Ni, Ga, Al and/or Ti) cathodes synthesized by the combustion method. Journal of Applied Electrochemistry, 2009, 39, 807-814.	2.9	11
40	Effects of Zn or Ti substitution for Ni on the electrochemical properties of LiNiO2. Ceramics International, 2011, 37, 779-782.	4.8	11
41	Lithium nickel cobalt oxides synthesized from Li2CO3, NiO and Co3O4 by the solid-state reaction method. Ceramics International, 2012, 38, 3635-3641.	4.8	11
42	Development of an Mg-Based Alloy with a Hydrogen-Storage Capacity over 6 wt% by Adding Graphene. Metals and Materials International, 2018, 24, 1403-1411.	3.4	11
43	Hydrogen charging kinetics of Mg - 10wt% Fe2O3 prepared via MgH2-forming mechanical milling. Materials Research Bulletin, 2021, 140, 111304.	5.2	11
44	Enhancement of the Hydriding and Dehydriding Rates of Mg by Adding TiCl3 and Reactive Mechanical Grinding. Journal of Korean Institute of Metals and Materials, 2015, 53, 187-191.	1.0	11
45	Hydrogen Storage Characteristics of Metal Hydro-Borate and Transition Element-Added Magnesium Hydride. Journal of Korean Institute of Metals and Materials, 2016, 54, 503-509.	1.0	11
46	Hydrogen Storage and Release Properties of Transition Metal-Added Magnesium Hydride Alloy Fabricated by Grinding in a Hydrogen Atmosphere. Journal of Korean Institute of Metals and Materials, 2016, 54, 510-518.	1.0	11
47	Hydrogen-storage property characterization of Mgâ€“15wt%Niâ€“5wt%Fe2O3 prepared by reactive mechanical grinding. International Journal of Hydrogen Energy, 2010, 35, 13055-13061.	7.1	10
48	Effects of Ni, Fe 2 O 3 , and CNT addition by reactive mechanical grinding on the reaction rates with H 2 of Mg-based alloys. International Journal of Hydrogen Energy, 2012, 37, 1531-1537.	7.1	10
49	Preparation of Mg-MgH2 flakes by planetary ball milling with stearic acid and their hydrogen storage properties. Metals and Materials International, 2016, 22, 544-549.	3.4	10
50	Synthesis of a Mg-based alloy with a hydrogen-storage capacity of over 7â€‰wt% by adding a polymer CMC via transformation-involving milling. Materials Research Bulletin, 2018, 108, 23-31.	5.2	10
51	Hydrogen Storage Properties of Mg-Graphene Composites. Journal of Korean Institute of Metals and Materials, 2018, 56, 524-531.	1.0	10
52	Hydrogen Uptake and Release Characteristics of Mg-xTaF5-xVCl3 (x=1.25, 2.5, and 5). Journal of Korean Institute of Metals and Materials, 2018, 56, 611-619.	1.0	10
53	Enhancement of hydrogen-storage properties of Mg by reactive mechanical grinding with oxide, metallic element(s), and hydride-forming element. Ceramics International, 2011, 37, 897-902.	4.8	9
54	Improvement of hydrogen-storage properties of MgH2 by addition of Li3N, LiBH4, Fe and/or Ti. Materials Research Bulletin, 2013, 48, 74-78.	5.2	9

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55	Characterization of a magnesium-based alloy after hydriding-dehydriding cycling (n=1â€“150). Metals and Materials International, 2013, 19, 1139-1144.	3.4	9
56	Increase in the dehydrogenation rates and hydrogen-storage capacity of Mg-graphene composites by adding nickel via reactive ball milling. Materials Research Bulletin, 2020, 130, 110938.	5.2	9
57	Effects of fine Cr2O3 addition on Mg's hydrogen-storage performance. Journal of Industrial and Engineering Chemistry, 2011, 17, 167-169.	5.8	8
58	Electrochemical properties of lithium nickel oxide synthesized by the combustion method in an O2 stream. Ceramics International, 2012, 38, 2443-2448.	4.8	8
59	Improvement of hydrogen-storage properties of MgH2 by addition of Ni and Ti via reactive mechanical grinding and a rate-controlling step in its dehydriding reaction. Metals and Materials International, 2013, 19, 879-885.	3.4	8
60	Comparison of hydrogen storage properties of pure Mg and milled pure Mg. Bulletin of Materials Science, 2014, 37, 831-835.	1.7	8
61	Preparation of a sample with a single MgH2 phase by horizontal ball milling and the first hydriding reaction of 90 wt% Mg-10 wt% MgH2. Metals and Materials International, 2015, 21, 422-428.	3.4	8
62	Increase in Hydrogen Release Rate of MgH₂ by Grinding in a Hydrogen Atmosphere with Ni Added. Journal of Nanoscience and Nanotechnology, 2016, 16, 10499-10507.	0.9	8
63	Increase in the Dehydrogenation Rate of Mgâ€“CMC (Carboxymethylcellulose, Sodium Salt) by Adding Ni via Hydride-Forming Milling. Metals and Materials International, 2019, 25, 516-527.	3.4	8
64	MgH2 and Ni-Coated Carbon-Added Mg Hydrogen-Storage Alloy Prepared by Mechanical Alloying. Journal of Korean Institute of Metals and Materials, 2016, 54, 125-131.	1.0	8
65	Study on the Reactivity with Hydrogen of Planetary Ball Milled 90 wt% Mg+10 wt% MgH2: Analyses of Reaction Rates with Hydrogen and Microstructure. Journal of Korean Institute of Metals and Materials, 2016, 54, 358-363.	1.0	8
66	Effects of transition metal oxide and Ni addition on the hydrogen-storage properties of Mg. Journal of Materials Science, 2010, 45, 5164-5170.	3.7	7
67	Hydrogen storage properties of Mg-23.5Ni-xCu prepared by rapid solidification process and crystallization heat treatment. International Journal of Hydrogen Energy, 2011, 36, 2170-2176.	7.1	7
68	Electrochemical performance of cobalt-substituted lithium nickel oxides synthesized from lithium and nickel carbonates and cobalt oxide. Ceramics International, 2013, 39, 917-923.	4.8	7
69	Advancement in the Hydrogen Absorbing and Releasing Kinetics of MgH2 by Mixing with Small Percentages of Zn(BH4)2 and Ni. Metals and Materials International, 2018, 24, 423-432.	3.4	7
70	Development of a Mg-Based Alloy with a Hydrogen-Storage Capacity of 7 wt% by Adding a Polymer CMC via Transformation-Involving Milling. Journal of Korean Institute of Metals and Materials, 2018, 56, 392-399.	1.0	7
71	Effects of Zn(BH₄)₂, Ni, and/or Ti Doping on the Hydrogen-Storage Features of MgH₂. Journal of Korean Institute of Metals and Materials, 2019, 57, 176-183.	1.0	7
72	Raising the Dehydrogenation Rate of a Mg-CMC (Carboxymethylcellulose, Sodium Salt) Composite by Alloying Ni via Hydride-Forming Milling. Journal of Korean Institute of Metals and Materials, 2018, 56, 620-627.	1.0	7

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73	Improvement of hydrogen storage characteristics of Mg by planetary ball milling under H2 with metallic element(s) and/or Fe2O3. International Journal of Hydrogen Energy, 2011, 36, 3521-3528.	7.1	6
74	Electrochemical performances of Li1+zNiO2 (z=0, 0.04, 0.08, 0.10, 0.12, and 0.15) synthesized by a combustion method. Ceramics International, 2014, 40, 8585-8591.	4.8	6
75	Development of a Hydrogen-Storage Alloy with a High Capacity of Approximately 6 wt% by Adding a Transition Metal and a Halide. Journal of Nanoscience and Nanotechnology, 2017, 17, 8105-8111.	0.9	6
76	Hydriding and Dehydriding Reactions of Mg-xTaF5 (x=0, 5, and 10) Prepared via Reactive Mechanical Grinding. Journal of Korean Institute of Metals and Materials, 2014, 52, 957-962.	1.0	6
77	Hydrogen Sorption of Pure Mg and Niobium (V) Fluoride-Added Mg Alloys Prepared by Planetary Ball Milling in Hydrogen. Journal of Korean Institute of Metals and Materials, 2016, 54, 916-924.	1.0	6
78	Hydrogen Storage Properties of Mg Alloy Prepared by Incorporating Polyvinylidene Fluoride via Reactive Milling. Journal of Korean Institute of Metals and Materials, 2018, 56, 878-884.	1.0	6
79	Improvement of the Hydrogen-Release Features of Mg-Graphene Composite by Adding Nickel via Reactive Ball Milling. Journal of Korean Institute of Metals and Materials, 2019, 57, 663-672.	1.0	6
80	Influences on the H2-sorption properties of Mg of Co (with various sizes) and CoO addition by reactive grinding and their thermodynamic stabilities. Metals and Materials International, 2004, 10, 69-75.	3.4	5
81	Improvement in the hydrogen-storage properties of Mg by the addition of metallic elements Ni, Fe, and Ti, and an oxide Fe2O3. Materials Research Bulletin, 2011, 46, 1887-1891.	5.2	5
82	Electrochemical properties of LiCoyMn2â^'yO4 synthesized using a combustion method in a voltage range of 3.5â€"5.0V. Ceramics International, 2011, 37, 2215-2220.	4.8	5
83	Hydrogen-storage characteristics of Mgâ€"14Niâ€"6Fe2O3â€"2CNT prepared by reactive mechanical grinding. Materials Research Bulletin, 2012, 47, 4059-4064.	5.2	5
84	Synthesis of lithium LiNi1â^'yCoyO2 from lithium carbonate, nickel oxide and cobalt carbonate and their electrochemical properties. Ceramics International, 2012, 38, 5987-5991.	4.8	5
85	Comparison of hydrogen-storage properties of Mg-14Ni-3Fe2O3-3Ti and Mg-14Ni-2Fe2O3-2Ti-2Fe. Metals and Materials International, 2013, 19, 543-548.	3.4	5
86	Synthesis and electrochemical characteristics of LiNi 0.5 Co 0.5 O 2 from different combinations of carbonates and oxides. Ceramics International, 2013, 39, 6937-6943.	4.8	5
87	Preparation of Mg-33Al alloy by rapid solidification process and evaluation of its hydrogen-storage properties. Metals and Materials International, 2013, 19, 1145-1149.	3.4	5
88	Hydrogen-storage properties of MgH2â€"10Niâ€"2NaAlH4â€"2Ti prepared by reactive mechanical grinding. Journal of Industrial and Engineering Chemistry, 2014, 20, 1591-1595.	5.8	5
89	Electrochemical properties of LiNiO2 cathode after TiO2 or ZnO addition. Ceramics International, 2014, 40, 4219-4224.	4.8	5
90	Hydriding and dehydriding rates of Mg, Mg-10TaF5, and Mg-10NbF5 prepared via reactive mechanical grinding. Metals and Materials International, 2015, 21, 208-212.	3.4	5

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91	Cycling Performance of NaAlH4 and Transition Metals-Added MgH2 Prepared via Milling in a Hydrogen Atmosphere. Journal of Nanoscience and Nanotechnology, 2017, 17, 8132-8137.	0.9	5
92	Development of a Hydrogen Uptake-Release Mg-Based Alloy by Adding a Polymer CMC (Carboxymethylcellulose, Sodium Salt) via Reaction-Accompanying Milling. Metals and Materials International, 2018, 24, 1181-1190.	3.4	5
93	Syntheses of nano-sized Co-based powders by carbothermal reduction for anode materials of lithium ion batteries. Ceramics International, 2018, 44, 4225-4229.	4.8	5
94	Nickel, Graphene, and Yttria-Stabilized Zirconia (YSZ)-Added Mg by Grinding in Hydrogen Atmosphere for Hydrogen Storage. Metals, 2019, 9, 1347.	2.3	5
95	Hydrogen-Storage Property Enhancement of Magnesium Hydride by Nickel Addition via Reactive Mechanical Grinding. Journal of Korean Institute of Metals and Materials, 2013, 51, 607-613.	1.0	5
96	Improvement of the Reaction Rates of Mg with H2 by the Addition of TaF5 via Reactive Mechanical Grinding. Journal of Korean Institute of Metals and Materials, 2014, 52, 137-142.	1.0	5
97	Highly Efficient Organic Light Emitting Diodes with Hole Injection Layer of Thermally Evaporated Molybdenum Oxide. Electronic Materials Letters, 2009, 5, 151-155.	2.2	4
98	Electrochemical characteristics of cobalt-substituted lithium nickel oxides synthesized from lithium hydro-oxide and nickel and cobalt oxides. Ceramics International, 2012, 38, 6591-6597.	4.8	4
99	Hydrogen-storage characteristics of Cu, Nb2O5, and NbF5-added Mgâ€“Ni alloys. Materials Research Bulletin, 2012, 47, 172-178.	5.2	4
100	Fabrication of Fe-Ti alloys by pulsed current-assisted reaction from iron, manganese and titanium oxide or titanium hydride. Metals and Materials International, 2013, 19, 895-899.	3.4	4
101	Phase transformations and hydrogen-storage characteristics of Mg-transition metal-oxide alloys. Metals and Materials International, 2013, 19, 237-244.	3.4	4
102	Preparation of Zn(BH4)2 and diborane and hydrogen release properties of Zn(BH4)2+xMgH2 (x=1, 5, 10,) Tj ETQq0 0 0 rgBT /Overlock 1	3.4	4
103	Evaluation of the metal-added Mg hydrogen storage material and comparison with the oxide-added Mg. Journal of Industrial and Engineering Chemistry, 2015, 21, 378-386.	5.8	4
104	Preparation of an additive-free sample with a MgH2 phase by planetary ball milling of Mg with10 wt% MgH2. Metals and Materials International, 2016, 22, 1121-1128.	3.4	4
105	Increasing the Hydrogenation and Dehydrogenation Rates of Magnesium by Incorporating CMC(Na) (Carboxymethylcellulose-Sodium Salt) and Nickel. Journal of Nanoscience and Nanotechnology, 2019, 19, 6580-6589.	0.9	4
106	Improvement in the Hydrogenation and Dehydrogenation Features of Mg by Milling in Hydrogen with Vanadium Chloride. Journal of Korean Institute of Metals and Materials, 2021, 59, 709-717.	1.0	4
107	Enhancement of the Hydrogen Uptake and Release Rates of Mg by the Addition of TaF5 and VCl3 with Reactive Mechanical Grinding. Nanoscience and Nanotechnology Letters, 2018, 10, 772-778.	0.4	4
108	Pressure-Composition Isotherms and Cycling Properties of Mg-xFe2O3-yNi Alloys. Journal of Korean Institute of Metals and Materials, 2013, 51, 455-460.	1.0	4

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109	Comparison of lithium nickel cobalt oxides synthesized from NiO, Co3O4, and LiOHÂ·H2O or Li2CO3 by solid-state reaction method. Ceramics International, 2012, 38, 5699-5705.	4.8	3
110	Electrochemical properties of LiNi1â^'Co O2 (y= 0.1, 0.3 and 0.5) synthesized from LiOHÂ·H2O, NiO and Co3O4 by solid state reaction method. Ceramics International, 2012, 38, 4953-4959.	4.8	3
111	Hydridingâ€"dehydriding cycling behavior of magnesiumâ€"nickelâ€"iron oxide alloy. Materials Research Bulletin, 2012, 47, 1191-1196.	5.2	3
112	Synthesis of LiNi0.9Co0.1O2 from Li2CO3, NiO or NiCO3, and CoCO3 or Co3O4 and their electrochemical properties. Ceramics International, 2013, 39, 7297-7303.	4.8	3
113	Synthesis of a Tiâ€“Crâ€“V alloy by pulsed current assisted reaction. Journal of Industrial and Engineering Chemistry, 2013, 19, 1267-1271.	5.8	3
114	Electrochemical characteristics of LiNi0.5Co0.5O2 synthesized at 800Â°C from the different combinations of carbonates, oxides, and hydroxides. Ceramics International, 2013, 39, 5527-5533.	4.8	3
115	Electrochemical properties of nano-cobalt powder prepared by chemical reduction with and without cetyltrimethylammonium bromide and carbon-coated at 500 Â°C for secondary lithium Batteries. Metals and Materials International, 2014, 20, 793-799.	3.4	3
116	Hydrogen Storage Characteristics of Mg, Mg-5TaF₅, and Mg-5NbF₅ Prepared via Grinding in a Hydrogen Atmosphere. Journal of Nanoscience and Nanotechnology, 2016, 16, 10508-10514.	0.9	3
117	Hydrogenation and Dehydrogenation Behaviors of Mg₂Ni Synthesized by Sintering Pelletized Mixtures Under an Ar Atmosphere. Journal of Nanoscience and Nanotechnology, 2019, 19, 6571-6579.	0.9	3
118	Enhancement of Hydrogen-Storage Characteristics of Magnesium Hydride via Reaction-Involved Milling with Nickel and Lithium Borohydride. Journal of Korean Institute of Metals and Materials, 2014, 52, 1031-1036.	1.0	3
119	Hydrogen storage properties of pure Mg. Journal of Korean Institute of Metals and Materials, 2014, 52, 293-297.	1.0	3
120	PCT Curve and Cycling Performance of MgH2-Ni-NaAlH4-Ti Alloy Milled under H2. Journal of Korean Institute of Metals and Materials, 2014, 52, 391-396.	1.0	3
121	Synthesis of Zn(BH4)2 and Gas Absorption and Release Characteristics of Zn(BH4)2, Ni, or Ti-Added MgH2â€"Based Alloys. Journal of Korean Institute of Metals and Materials, 2015, 53, 500-505.	1.0	3
122	Electrochemical properties of LiNi1â^'yTiyO2 synthesized by ball milling and solid-state reaction method. Materials Research Bulletin, 2006, 41, 1720-1728.	5.2	2
123	Amelioration of the reaction kinetics of Mg with hydrogen by reactive mechanical grinding with Ni, Fe2O3, Ti or Fe. Journal of Industrial and Engineering Chemistry, 2011, 17, 700-704.	5.8	2
124	Variation with added material in the effects of reactive mechanical grinding and hydridingâ€"dehydriding cycling on the hydrogen-storage properties of Mg. Materials Research Bulletin, 2012, 47, 2547-2551.	5.2	2
125	Hydrogen storage characteristics of melt spun Mgâ€"23.5Niâ€"5Cu alloys mixed with LaNi5 and/or Nb2O5. Journal of Industrial and Engineering Chemistry, 2012, 18, 61-64.	5.8	2
126	Electrochemical characteristics of LiNi0.9Co0.1O2 synthesized at 800Â°C from the different combinations of carbonates and oxides. Ceramics International, 2013, 39, 8575-8580.	4.8	2

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127	Development of an Mg-Based Alloy with High Hydriding and Dehydriding Rates and Large Hydrogen Storage Capacity by Adding TaF5. Journal of Nanoscience and Nanotechnology, 2018, 18, 6040-6046.	0.9	2
128	Improvement in the Hydrogen-Storage Characteristics of Magnesium Hydride by Grinding with Sodium Alanate and Transition Metals in a Hydrogen Atmosphere. Journal of Nanoscience and Nanotechnology, 2018, 18, 6047-6054.	0.9	2
129	Hydrogen-Storage Properties of Li3N, LiBH4, Fe and/or Ti-Added Mg or MgH2. Journal of Korean Institute of Metals and Materials, 2013, 51, 615-619.	1.0	2
130	Hydriding and Dehydriding Properties of Zinc Borohydride, Nickel, and Titanium-Added Magnesium Hydride. Journal of Korean Institute of Metals and Materials, 2015, 53, 808-814.	1.0	2
131	Effects of Milling and Hydriding-Dehydriding Cycling on the Hydrogen-Storage Behaviors of a Magnesium-Nickel-Tantalum Fluoride Alloy. Journal of Korean Institute of Metals and Materials, 2015, 53, 904-910.	1.0	2
132	Improvement in Hydriding and Dehydriding Features of Mgâ€“TaF5â€“VCl3 Alloy by Adding Ni and x wt% MgH2 (x = 1, 5, and 10) Together with TaF5 and VCl3. Micromachines, 2021, 12, 1194.	2.9	2
133	Rate-Controlling Steps for the Hydriding Reaction of the Intermetallic Compound Mg₂Ni. Journal of Nanoscience and Nanotechnology, 2020, 20, 7010-7017.	0.9	2
134	Determination of the Activation Energy for Hydride Decomposition Using a Sieverts-Type Apparatus and the Kissinger Equation. Metals, 2022, 12, 265.	2.3	2
135	Activation of Zr0.8Ti0.2Mn0.4V0.6Ni electrode by hot-charging treatment and its cycling performance for Ni-MH secondary battery. Journal of Alloys and Compounds, 2004, 370, 307-314.	5.5	1
136	Electrochemical Properties of LiNi1-yAlyO2 Cathode Materials Synthesized by Emulsion Method. Journal of the Ceramic Society of Japan, 2007, 115, 245-249.	1.3	1
137	Synthesis and electrochemical properties of LiNi1â^'y Zn y O2. Journal of Electroceramics, 2009, 23, 447-451.	2.0	1
138	Study on the reactivity of MgH2+MgB2 composites under high hydrogen pressure and high temperature. Materials Research Bulletin, 2013, 48, 1071-1075.	5.2	1
139	Hydrogen-storage properties of MgH2â€“10Niâ€“2NaAlH4â€“2Tiâ€“2CNT milled in a planetary ball mill under H2. Journal of Industrial and Engineering Chemistry, 2013, 19, 1963-1967.	5.8	1
140	Synthesis of Nanocobalt Powders for an Anode Material of Lithium-Ion Batteries by Chemical Reduction and Carbon Coating. Journal of Nanomaterials, 2014, 2014, 1-8.	2.7	1
141	Electrochemical characteristics of LiNi0.7Co0.3O2 synthesized from different combinations of hydro-oxides, carbonates, and oxides at 800Â°C. Ceramics International, 2014, 40, 81-86.	4.8	1
142	Hydrogenation and dehydrogenation rates of oxide Fe2O3-added magnesium, and effects of Ti addition. Ceramics International, 2014, 40, 2389-2393.	4.8	1
143	Role of the Added Ni in Hydrogen-Storage Reactions of MgH2-Zn(BH4)2-Tm (Ni, Ti, or Fe) Alloys. Medziagotyra, 2018, 24, .	0.2	1
144	Hydriding and Dehydriding Features of a Titanium-Added Magnesium Hydride Composite. Medziagotyra, 2020, 26, 199-204.	0.2	1

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145	Study on the Variation in Microstructure of a Ferritic Stainless Steel with Surface Roughness and Thermal Cycling in Air. Journal of Nanoscience and Nanotechnology, 2021, 21, 4372-4382.	0.9	1
146	Amelioration of Hydrogen Uptake and Release Features of Magnesium Adding a Polymer Polyvinylidene Fluoride via Milling in Hydrogen in a Planetary Ball Mill. Journal of Nanoscience and Nanotechnology, 2020, 20, 7105-7113.	0.9	1
147	Enhancement of Reaction Kinetics with Hydrogen in Mg by Addition of Ni and TaF5 via Reactive Mechanical Grinding. Journal of Korean Institute of Metals and Materials, 2013, 51, 051-055.	1.0	1
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