

Liuzhang Ouyang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3714401/liuzhang-ouyang-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

263 papers	10,729 citations	61 h-index	92 g-index
277 ext. papers	12,761 ext. citations	7.2 avg, IF	6.69 L-index

#	Paper	IF	Citations
263	Efficient hydrogen release from LiBH ₄ alcoholysis in methanol/ethylene glycol based solutions over a wide temperature range. <i>Journal of Alloys and Compounds</i> , 2022 , 164030	5.7	0
262	Modulating superlattice structure and cyclic stability of Ce ₂ Ni ₇ -type LaY ₂ Ni _{10.5} -based alloys by Mn, Al, and Zr substitutions. <i>Journal of Power Sources</i> , 2022 , 524, 231067	8.9	0
261	Effective synthesis of magnesium borohydride via B-O to B-H bond conversion. <i>Chemical Engineering Journal</i> , 2022 , 432, 134322	14.7	1
260	Few layered graphene wrapped Sn ₄ P ₃ with high initial coulombic efficiency and cyclic stability for reversible Li ⁺ storage. <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163198	5.7	0
259	Ti-Cr-Mn-Fe-based alloys optimized by orthogonal experiment for 85MPa hydrogen compression materials. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 161791	5.7	3
258	Optimization of Ti-Zr-Cr-Fe alloys for 45MPa metal hydride hydrogen compressors using orthogonal analysis. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161629	5.7	2
257	Comparative study of Ga and Al alloying with ZrFe ₂ for high-pressure hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 13409-13417	6.7	0
256	Recent progress on hydrogen generation from the hydrolysis of light metals and hydrides. <i>Journal of Alloys and Compounds</i> , 2022 , 164831	5.7	5
255	Using tetramethylammonium hydroxide electrolyte to inhibit corrosion of Mg-based amorphous alloy anodes: A route for promotion energy density of Ni-MH battery. <i>Journal of Alloys and Compounds</i> , 2022 , 907, 164293	5.7	1
254	Improving hydrogen-induced crystallization and electrochemical hydrogen storage properties of MgNi amorphous alloy with CoB addition. <i>Journal of Non-Crystalline Solids</i> , 2022 , 588, 121646	3.9	1
253	A Nb-doped metal hydride electrode with overcharge resistance and wide temperature performance for aqueous rechargeable batteries. <i>Scripta Materialia</i> , 2022 , 218, 114827	5.6	0
252	Overview of hydrogen compression materials based on a three-stage metal hydride hydrogen compressor. <i>Journal of Alloys and Compounds</i> , 2021 , 162465	5.7	4
251	Enhanced hydrogen generation from hydrolysis of MgLi doped with expanded graphite. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 2185-2185	8.8	2
250	Interface promoted CO ₂ methanation: A theoretical study of Ni/La ₂ O ₃ . <i>Chemical Physics Letters</i> , 2021 , 768, 138396	2.5	2
249	Breaking the Passivation: Sodium Borohydride Synthesis by Reacting Hydrated Borax with Aluminum. <i>Chemistry - A European Journal</i> , 2021 , 27, 9087-9093	4.8	0
248	Tuning hydrogen storage thermodynamic properties of ZrFe ₂ by partial substitution with rare earth element Y. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 18445-18452	6.7	4
247	Influence of Sm doping on thermodynamics and electrochemical performance of AB ₅ +z alloys in low-temperature and high-power Ni-metal hydride batteries. <i>Journal of Power Sources</i> , 2021 , 493, 229725	8.9	3

246	Hydrogen Production via Hydrolysis and Alcoholysis of Light Metal-Based Materials: A Review. <i>Nano-Micro Letters</i> , 2021 , 13, 134	19.5	11
245	Influence of over-stoichiometry on hydrogen storage and electrochemical properties of Sm-doped low-Co AB ₅ -type alloys as negative electrode materials in nickel-metal hydride batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 159111	5.7	3
244	In-situ introducing TiP ₂ nanocrystals in black phosphorus anode to promote high rate-capacity synergy. <i>Journal of Power Sources</i> , 2021 , 499, 229979	8.9	4
243	Phase transformation and hydrogen storage properties of LaY ₂ Ni _{10.5} superlattice alloy with single Gd ₂ Co ₇ -type or Ce ₂ Ni ₇ -type structure. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 159254	5.7	4
242	Enhancing (de)hydrogenation kinetics properties of the Mg/MgH ₂ system by adding ANi ₅ (A = Ce, Nd, Pr, Sm, and Y) alloys via ball milling. <i>Journal of Rare Earths</i> , 2021 , 39, 1010-1016	3.7	8
241	Promoting the cycling stability of amorphous MgNi-based alloy electrodes by mitigating hydrogen-induced crystallization. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 6701-6708	6.7	1
240	Boosted lithium storage cycling stability of TiP ₂ by in-situ partial self-decomposition and nano-spatial confinement. <i>Journal of Power Sources</i> , 2021 , 485, 229337	8.9	7
239	The Electrolyte Additive Effects on Commercialized Ni-Rich LiNi _x Co _y Mn _z O ₂ (x + y + z = 1) Based Lithium-Ion Pouch Batteries at High Temperature. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2292-2299	6.1	1
238	Improvement on hydrogen generation properties of Zr(BH ₄) ₄ /BNH ₃ . <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 41-46	3.6	2
237	Synthesis of amorphous SeP ₂ /C composite by plasma assisted ball milling for high-performance anode materials of lithium and sodium-ion batteries. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 567-574	3.6	1
236	Recent progress of transition metal carbides/nitrides for electrocatalytic water splitting. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160833	5.7	25
235	Achieving fast hydrogenation by hydrogen-induced phase separation in Mg-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161476	5.7	3
234	Promoting hydrogen generation via co-hydrolysis of Al and MgH ₂ catalyzed by Mo and B ₂ O ₃ . <i>Journal of Alloys and Compounds</i> , 2021 , 888, 161485	5.7	3
233	An Al ₃ Li alloy/water system for superior and low-temperature hydrogen production. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3473-3481	6.8	2
232	Excellent Cyclic and Rate Performances of SiO/C/Graphite Composites as Li-Ion Battery Anode. <i>Frontiers in Chemistry</i> , 2020 , 8, 388	5	5
231	A high-performance hydrogen generation system: Hydrolysis of LiBH ₄ -based materials catalyzed by transition metal chlorides. <i>Renewable Energy</i> , 2020 , 156, 655-664	8.1	11
230	Promoting Al hydrolysis via MgH ₂ and NaOH addition. <i>Journal of Alloys and Compounds</i> , 2020 , 831, 154793	9.3	6
229	Effect of Sm on performance of Pr/Nd/Mg-free and low-cobalt AB _{4.6} alloys in nickel-metal hydride battery electrode. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154530	5.7	13

228	Hydrogen storage in light-metal based systems: A review. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154597	5.7	61
227	Direct Microstructural Evidence on the Catalyzing Mechanism for De/hydrogenation of Mg by Multi-valence NbOx. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6571-6579	3.8	3
226	Magnesium-based hydrogen storage compounds: A review. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154865	5.7	84
225	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH ₄ from its Hydrolytic Product. <i>Angewandte Chemie</i> , 2020 , 132, 8701-8707	3.6	13
224	Kinetically Controllable Hydrogen Generation at Low Temperatures by the Alcoholysis of CaMg-Based Materials in Tailored Solutions. <i>ChemSusChem</i> , 2020 , 13, 2709-2718	8.3	4
223	Regulating Lithium Nucleation and Deposition via MOF-Derived Co@C-Modified Carbon Cloth for Stable Li Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 1909159	15.6	87
222	Closing the Loop for Hydrogen Storage: Facile Regeneration of NaBH from its Hydrolytic Product. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8623-8629	16.4	116
221	B,N Codoped Graphitic Nanotubes Loaded with Co Nanoparticles as Superior Sulfur Host for Advanced Li-S Batteries. <i>Small</i> , 2020 , 16, e1906634	11	32
220	Self-sacrificial template-directed ZnSe@C as high performance anode for potassium-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 387, 124061	14.7	31
219	High-pressure hydrogen storage performances of ZrFe ₂ based alloys with Mn, Ti, and V addition. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 9836-9844	6.7	11
218	Low temperature dehydrogenation properties of ammonia borane within carbon nanotube arrays: a synergistic effect of nanoconfinement and alane.. <i>RSC Advances</i> , 2020 , 10, 19027-19033	3.7	4
217	A phosphorus and carbon composite containing nanocrystalline Sb as a stable and high-capacity anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 443-452	13	18
216	Enhanced hydrogen generation performance of CaMg ₂ -based materials by ball milling. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 918-929	6.8	8
215	Chemical bonding black phosphorus with TiO ₂ and carbon toward high-performance lithium storage. <i>Journal of Power Sources</i> , 2020 , 449, 227549	8.9	21
214	Dual-Carbon-Confined SnS Nanostructure with High Capacity and Long Cycle Life for Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , 2020 ,	13	8
213	Reaction Route Optimized LiBH ₄ for High Reversible Capacity Hydrogen Storage by Tunable Surface-Modified AlN. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11964-11973	6.1	7
212	Effect of Y substitution on the high rate dischargeability of AB _{4.6} alloys as an electrode material for nickel metal hydride batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 849, 156641	5.7	4
211	Efficient Synthesis of Sodium Borohydride: Balancing Reducing Agents with Intrinsic Hydrogen Source in Hydrated Borax. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13449-13458	8.3	6

210	Reducing the electrochemical capacity decay of milled Mg ₉₀ Ni ₁₀ alloys: The role of stabilizing amorphous phase by Ti-substitution. <i>Journal of Power Sources</i> , 2019 , 438, 226984	8.9	9
209	Achieving high equilibrium pressure and low hysteresis of ZrBe based hydrogen storage alloy by Cr/V substitution. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 1436-1444	5.7	12
208	A fleeting glimpse of the dual roles of SiB in promoting the hydrogen storage performance of LiBH ₄ . <i>Dalton Transactions</i> , 2019 , 48, 1314-1321	4.3	6
207	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O3-Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7906-7913	9.5	33
206	Regulation of high-efficient regeneration of sodium borohydride by magnesium-aluminum alloy. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29108-29115	6.7	7
205	Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1902228	24	149
204	Facile Synthesis of Peapod-Like Cu Ge/Ge@C as a High-Capacity and Long-Life Anode for Li-Ion Batteries. <i>Chemistry - A European Journal</i> , 2019 , 25, 11486-11493	4.8	11
203	Exploration of Ti substitution in AB ₂ -type YZrFe based hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29116-29122	6.7	7
202	Theoretical study of M ₂ Al (M=Ti, V, Zr or Nb) structure phase diagram at high pressures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13592-13605	6.7	2
201	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. <i>Electrochimica Acta</i> , 2019 , 312, 224-233	6.7	37
200	Metallic Ni nanocatalyst in situ formed from LaNi ₅ H ₅ toward efficient CO ₂ methanation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29068-29074	6.7	8
199	Controllable Hydrolysis Performance of MgLi Alloys and Their Hydrides. <i>ChemPhysChem</i> , 2019 , 20, 1316-1324	3.324	17
198	Hydrogenation and crystallization of amorphous phase: A new mechanism for the electrochemical capacity and its decay in milled Mg Ni alloys. <i>Electrochimica Acta</i> , 2019 , 305, 145-154	6.7	9
197	Popcorn derived carbon enhances the cyclic stability of MoS ₂ as an anode material for sodium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 309, 25-33	6.7	29
196	Realizing facile regeneration of spent NaBH ₄ with Mg ₉₀ Al alloy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10723-10728	13	21
195	Low temperature de/hydrogenation in the partially crystallized Mg ₆₀ Ce ₁₀ Ni ₂₀ Cu ₁₀ metallic glasses induced by milling with process control agents. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 835-843	5.7	10
194	Growth mechanism of black phosphorus synthesized by different ball milling techniques. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 339-346	5.7	24
193	Magnesium borohydride hydrolysis with kinetics controlled by ammoniate formation. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 7392-7401	6.7	16

192	Hydrogen generation via hydrolysis of Mg ₂ Si. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 108-115	5.7	50
191	Microstructural evolution and hydrogen storage properties of Mg _{1-x} Nb _x (x=0.17~0.76) alloy films via Co-Sputtering. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29100-29107	6.7	4
190	Lithium Sulfur Batteries: Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium Sulfur Batteries (Adv. Mater. 33/2019). <i>Advanced Materials</i> , 2019 , 31, 1970236	24	8
189	Citraconic anhydride as an electrolyte additive to improve the high temperature performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ /graphite pouch batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 757-766	5.7	21
188	Converting H ⁺ from coordinated water into H ₂ enables super facile synthesis of LiBH ₄ . <i>Green Chemistry</i> , 2019 , 21, 4380-4387	10	96
187	A novel selenium-phosphorous amorphous composite by plasma assisted ball milling for high-performance rechargeable potassium-ion battery anode. <i>Journal of Power Sources</i> , 2019 , 443, 227276	8.9	29
186	Achieving superior de-/hydrogenation properties of C15 Laves phase Y-Fe-Al alloys by A-side substitution. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 158-164	5.7	7
185	Rational design of 3D N-doped carbon nanosheet framework encapsulated ultrafine ZnO nanocrystals as superior performance anode materials in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25155-25164	13	20
184	Carbon network framework derived iron-nitrogen co-doped carbon nanotubes for enhanced oxygen reduction reaction through metal salt-assisted polymer blowing strategy. <i>Applied Surface Science</i> , 2019 , 463, 767-774	6.7	17
183	Altering the chemical state of boron towards the facile synthesis of LiBH ₄ via hydrogenating lithium compound-metal boride mixture. <i>Renewable Energy</i> , 2019 , 134, 235-240	8.1	6
182	Promoting hydrogen generation from the hydrolysis of Mg-Graphite composites by plasma-assisted milling. <i>Energy</i> , 2019 , 167, 1205-1211	7.9	68
181	A General Metal-Organic Framework (MOF)-Derived Selenidation Strategy for In Situ Carbon-Encapsulated Metal Selenides as High-Rate Anodes for Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707573	15.6	239
180	On the hydrogen desorption entropy change of modified MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2018 , 737, 427-432	5.7	8
179	Silver@Nitrogen-Doped Carbon Nanorods as a Highly Efficient Electrocatalyst for the Oxygen Reduction Reaction in Alkaline Media. <i>Chemistry - A European Journal</i> , 2018 , 24, 3283-3288	4.8	8
178	Hydrogen generation by hydrolysis of Mg-Mg ₂ Si composite and enhanced kinetics performance from introducing of MgCl ₂ and Si. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2903-2912	6.7	74
177	Enhanced high-voltage cyclability of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ -based pouch cells via lithium difluorophosphate introducing as electrolyte additive. <i>Journal of Alloys and Compounds</i> , 2018 , 755, 1-9	5.7	31
176	Sodium borohydride regeneration via direct hydrogen transformation of sodium metaborate tetrahydrate. <i>Journal of Power Sources</i> , 2018 , 390, 71-77	8.9	18
175	Correlation between structural stability of LiBH and cation electronegativity in metal borides: an experimental insight for catalyst design. <i>Dalton Transactions</i> , 2018 , 47, 4987-4993	4.3	8

174	Theoretical study of YFe ₂ H (x = 0.8): A comparison between cubic and orthorhombic phases. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 460, 61-68	2.8	10
173	Dehydrogenation and reaction pathway of Perovskite-Type NH ₄ Ca(BH ₄) ₃ . <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 194-199	3.6	4
172	Improvement in the Electrochemical Lithium Storage Performance of MgH ₂ . <i>Inorganics</i> , 2018 , 6, 2	2.9	4
171	A Recycling Hydrogen Supply System of NaBH ₄ Based on a Facile Regeneration Process: A Review. <i>Inorganics</i> , 2018 , 6, 10	2.9	29
170	Destabilizing the dehydriding thermodynamics of MgH ₂ by reversible intermetallics formation in MgAgZn ternary alloys. <i>Journal of Power Sources</i> , 2018 , 396, 796-802	8.9	28
169	Enhanced electrochemical lithium storage performance of Mg ₂ FeH ₆ anode with TiO ₂ coating. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 9803-9814	6.7	5
168	Enhanced hydrogen storage kinetics in Mg@FLG composite synthesized by plasma assisted milling. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17346-17352	6.7	13
167	Enhanced cyclic stability of SnS microplates with conformal carbon coating derived from ethanol vapor deposition for sodium-ion batteries. <i>Applied Surface Science</i> , 2018 , 436, 912-918	6.7	18
166	Hydrogen storage and electrochemical properties of Pr, Nd and Co-free La _{13.9} Sm _{24.7} Mg _{1.5} Ni ₅₈ Al _{1.7} Zr _{0.14} Ag _{0.07} alloy as a nickel-metal hydride battery electrode. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 98-103	5.7	46
165	Achieving High Dehydrogenation Kinetics and Reversibility of LiBH ₄ by Adding Nanoporous h-BN to Destabilize LiH. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23336-23344	3.8	7
164	Synthesis and hydrogen storage property tuning of Zr(BH ₄) ₄ /BNH ₃ via physical vapour deposition and composite formation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 19182-19188	6.7	6
163	Catalytic effect of ScCl ₃ on the dehydrogenation properties of LiAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2018 , 762, 73-79	5.7	18
162	AgP ₂ /C as an anode for high rate performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 246-253	5.7	11
161	A nanorod FeP@phosphorus-doped carbon composite for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 296-304	5.7	23
160	Lithium Difluorophosphate As a Promising Electrolyte Lithium Additive for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2647-2656	6.1	42
159	FeP@C Nanotube Arrays Grown on Carbon Fabric as a Low Potential and Freestanding Anode for High-Performance Li-Ion Batteries. <i>Small</i> , 2018 , 14, e1800793	11	73
158	Achieving the dehydriding reversibility and elevating the equilibrium pressure of YFe ₂ alloy by partial Y substitution with Zr. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14541-14549	6.7	15
157	A dehydrogenation mechanism through substitution of H by D in LiBH ₄ /MgD ₂ mixture. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3130-3135	6.7	1

156	Exfoliation of MoS and h-BN nanosheets by hydrolysis of LiBH. <i>Nanotechnology</i> , 2017 , 28, 115604	3.4	22
155	3,3P(Ethylenedioxy)dipropiononitrile as an Electrolyte Additive for 4.5 V LiNiCoMnO/Graphite Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9630-9639	9.5	36
154	Increasing de-/hydriding capacity and equilibrium pressure by designing non-stoichiometry in Al-substituted YFe ₂ compounds. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 491-498	5.7	5
153	A ZnGeP ₂ /C anode for lithium-ion and sodium-ion batteries. <i>Electrochemistry Communications</i> , 2017 , 77, 85-88	5.1	33
152	Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , 2017 , 23, 7710-7718	4.8	25
151	Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. <i>Chemistry - A European Journal</i> , 2017 , 23, 7625-7625	4.8	
150	Enhanced dehydrogenation of LiBH ₄ /LiAlH ₄ composites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22406-22410	6.7	7
149	Hydrogen generation from sodium borohydride hydrolysis accelerated by zinc chloride without catalyst: A kinetic study. <i>Journal of Alloys and Compounds</i> , 2017 , 717, 48-54	5.7	38
148	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2017 , 11, 5120-5129	16.7	84
147	NaBH ₄ regeneration from NaBO ₂ by high-energy ball milling and its plausible mechanism. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 13127-13135	6.7	28
146	Air-stable hydrogen generation materials and enhanced hydrolysis performance of MgH ₂ -LiNH ₂ composites. <i>Journal of Power Sources</i> , 2017 , 359, 427-434	8.9	69
145	Hydrogen generation via hydrolysis of H-CaMg ₂ and H-CaMg _{1.9} Ni _{0.1} . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22312-22317	6.7	35
144	The milled LiBH ₄ /h-BN composites exhibiting unexpected hydrogen storage kinetics and reversibility. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15790-15798	6.7	17
143	Electrochemical performances of MgH ₂ and MgH ₂ -C films for lithium ion battery anode. <i>Journal of Alloys and Compounds</i> , 2017 , 711, 473-479	5.7	15
142	MoS ₂ /cotton-derived carbon fibers with enhanced cyclic performance for sodium-ion batteries. <i>Applied Surface Science</i> , 2017 , 413, 169-174	6.7	21
141	Hydrogen generation via hydrolysis of magnesium with seawater using Mo, MoO ₂ , MoO ₃ and MoS ₂ as catalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8566-8575	13	76
140	Porous carbon supported Fe-N-C composite as an efficient electrocatalyst for oxygen reduction reaction in alkaline and acidic media. <i>Applied Surface Science</i> , 2017 , 411, 487-493	6.7	29
139	Reversible hydrogen storage in yttrium aluminum hydride. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 60423-60462	36.04	27

138	Self-Supported CoP Nanorod Arrays Grafted on Stainless Steel as an Advanced Integrated Anode for Stable and Long-Life Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2017 , 23, 5198-5204	4.8	65
137	Recent advances and remaining challenges of nanostructured materials for hydrogen storage applications. <i>Progress in Materials Science</i> , 2017 , 88, 1-48	42.2	366
136	Fe/N/C carbon nanotubes with high nitrogen content as effective non-precious catalyst for oxygen reduction reaction in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 5908-5915	6.7	30
135	Hydrogen production via hydrolysis of Mg-oxide composites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22305-22311	6.7	99
134	Efficient regeneration of sodium borohydride via ball milling dihydrate sodium metaborate with magnesium and magnesium silicide. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 1079-1085	5.7	15
133	Thermodynamics of concentrated solid solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2017 , 21, 238-251	12	95
132	A new method for few-layer graphene preparation via plasma-assisted ball milling. <i>Journal of Alloys and Compounds</i> , 2017 , 728, 578-584	5.7	60
131	Synthesis and hydrolysis of NaZn(BH ₄) ₃ and its ammoniates. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17012-17020	13	29
130	Robust Pitaya-Structured Pyrite as High Energy Density Cathode for High-Rate Lithium Batteries. <i>ACS Nano</i> , 2017 , 11, 9033-9040	16.7	200
129	Progress of hydrogen storage alloys for Ni-MH rechargeable power batteries in electric vehicles: A review. <i>Materials Chemistry and Physics</i> , 2017 , 200, 164-178	4.4	132
128	Hydrogen generation properties and the hydrolysis mechanism of Zr(BH ₄) ₄ /BNH ₃ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16630-16635	13	13
127	Hydrogen storage and hydrogen generation properties of CaMg ₂ -based alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 929-935	5.7	96
126	Phase transition and hydrogen storage properties of Mg ₁₇ Ba ₂ compound. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 519-522	5.7	52
125	A Novel Strategy to Suppress Capacity and Voltage Fading of Li- and Mn-Rich Layered Oxide Cathode Material for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1601066	21.8	113
124	Application of dielectric barrier discharge plasma-assisted milling in energy storage materials: A review. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 422-435	5.7	248
123	Hydrolysis and regeneration of sodium borohydride (NaBH ₄) via combination of hydrogen production and storage. <i>Journal of Power Sources</i> , 2017 , 359, 400-407	8.9	129
122	Enhanced hydrogen generation by hydrolysis of Mg doped with flower-like MoS ₂ for fuel cell applications. <i>Journal of Power Sources</i> , 2017 , 365, 273-281	8.9	53
121	Enhancing the Regeneration Process of Consumed NaBH ₄ for Hydrogen Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700299	21.8	223

120	Hierarchical MoO ₂ /Mo ₂ C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19987-93	9.5	78
119	Transition metal sulfides grown on graphene fibers for wearable asymmetric supercapacitors with high volumetric capacitance and high energy density. <i>Scientific Reports</i> , 2016 , 6, 26890	4.9	73
118	Controlling nanocrystallization and hydrogen storage property of Mg-based amorphous alloy via a gas-solid reaction. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 272-277	5.7	37
117	Growth morphology and crystallography of precipitate in a new high-temperature structural intermetallic Ti ₅₀ Al ₅₀ Fe. <i>Intermetallics</i> , 2016 , 69, 62-73	3.5	1
116	A novel method for the synthesis of solvent-free Mg(B ₃ H ₈) ₂ . <i>Dalton Transactions</i> , 2016 , 45, 3687-90	4.3	33
115	Sandwich-like SnS/Polypyrrole Ultrathin Nanosheets as High-Performance Anode Materials for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8502-10	9.5	115
114	Synthesis of N-doped hierarchical carbon spheres for CO ₂ capture and supercapacitors. <i>RSC Advances</i> , 2016 , 6, 1422-1427	3.7	31
113	Tuning kinetics and thermodynamics of hydrogen storage in light metal element based systems: A review of recent progress. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 280-300	5.7	186
112	Hydrogen-Induced Reversible Phase Transformations and Hydrogen Storage Properties of Mg _{1-x} Ag _x Al Ternary Alloys. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27117-27127	3.8	13
111	Enhancement of the electrochemical performance of CoB amorphous alloy through the addition of A ₂ B ₇ -type alloy. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 16142-16147	6.7	5
110	Enhanced hydrolysis properties and energy efficiency of MgH ₂ -base hydrides. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 419-426	5.7	80
109	Development of ZrFeV alloys for hybrid hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11242-11253	6.7	62
108	Reversible hydriding in YFeAl (x= 0.3, 0.5, 0.7) intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 843-848	5.7	15
107	Enhanced hydrogen storage properties of a Mg ₉₀ Ag ₁₀ alloy with solid dissolution of indium: a comparative study. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8581-8589	13	40
106	Enhanced Hydrogen Generation Properties of MgH ₂ -Based Hydrides by Breaking the Magnesium Hydroxide Passivation Layer. <i>Energies</i> , 2015 , 8, 4237-4252	3.1	68
105	Express penetration of hydrogen on Mg(10 13) along the close-packed-planes. <i>Scientific Reports</i> , 2015 , 5, 10776	4.9	81
104	Composition design of Ti _{1-x} Cr _x MnBe alloys for hybrid high-pressure metal hydride tanks. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 452-457	5.7	53
103	Phase transition and hydrogen storage properties of Mg ₉₀ Ca ₁₀ alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 642, 180-184	5.7	39

102	A stable and high-capacity anode for lithium-ion battery: Fe ₂ O ₃ wrapped by few layered graphene. <i>Journal of Power Sources</i> , 2015 , 288, 314-319	8.9	68
101	Hydrogen generation by hydrolysis of MgH ₂ and enhanced kinetics performance of ammonium chloride introducing. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6145-6150	6.7	142
100	Ammonia borane modified zirconium borohydride octaammoniate with enhanced dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5299-5304	13	20
99	Enhancement of the electrochemical properties of rare earth-based alloy by doping with CoZnB alloy. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 14173-14178	6.7	9
98	Synthesis, structure and dehydrogenation of zirconium borohydride octaammoniate. <i>Chemical Communications</i> , 2015 , 51, 2794-7	5.8	28
97	Dual-tuning effects of In, Al, and Ti on the thermodynamics and kinetics of Mg ₈₅ In ₅ Al ₅ Ti ₅ alloy synthesized by plasma milling. <i>Journal of Alloys and Compounds</i> , 2015 , 623, 354-358	5.7	120
96	Enhanced discharge capacity and cycling properties in high-samarium, praseodymium/neodymium-free, and low-cobalt A2B7 electrode materials for nickel-metal hydride battery. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 451-455	6.7	99
95	One-step synthesis of ultrafine WC ₁₀ Co hardmetals with VC/V ₂ O ₅ addition by plasma assisted milling. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015 , 48, 97-101	4.1	16
94	Reversible hydrogen storage and phase transformation with altered desorption pressure in Mg ₉₀ In ₅ Cd ₅ ternary alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 645, S103-S106	5.7	12
93	Dehydrogenation mechanism of LiBH ₄ by Poly(methyl methacrylate). <i>Journal of Alloys and Compounds</i> , 2015 , 645, S100-S102	5.7	8
92	Metal-Borohydride-Modified Zr(BH ₄) ₄ ·8NH ₃ : Low-Temperature Dehydrogenation Yielding Highly Pure Hydrogen. <i>Chemistry - A European Journal</i> , 2015 , 21, 14931-6	4.8	12
91	Monodisperse magnesium hydride nanoparticles uniformly self-assembled on graphene. <i>Advanced Materials</i> , 2015 , 27, 5981-8	24	220
90	Influence of Zr Addition on Structure and Performance of Rare Earth Mg-Based Alloys as Anodes in Ni/MH Battery. <i>Metals</i> , 2015 , 5, 565-577	2.3	9
89	Mesoporous Fe ₂ O ₃ flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14178-14187	13	37
88	Reversible De/hydriding Reactions between Two New Mg ₁₀ Ni ₁₁ Compounds with Improved Thermodynamics and Kinetics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26858-26865	3.8	21
87	Advanced high-pressure metal hydride fabricated via Ti _{1-x} Cr _x Ni alloys for hybrid tank. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2717-2728	6.7	64
86	Comparative Investigations on Hydrogen Absorption/Desorption Properties of Sm ₁₀ Mg ₁₁ Ni Compounds: The Effect of [SmNi ₅]/[SmMgNi ₄] Unit Ratio. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4719-4727	3.8	28
85	Enhanced joint catalysis of YH ₂ /Y ₂ O ₃ on dehydrogenation of MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2015 , 645, S209-S212	5.7	6

84	Facile Synthesis of Fe ₂ O ₃ -graphite Composite with Stable Electrochemical Performance as Anode Material for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014 , 125, 421-426	6.7	35
83	Facile synthesis of Ge@FLG composites by plasma assisted ball milling for lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11280-11285	13	64
82	Structural characteristics and hydrogen storage properties of Sm ₂ Co ₇ . <i>Journal of Alloys and Compounds</i> , 2014 , 608, 14-18	5.7	45
81	Improved hydrolysis properties of Mg ₃ RE hydrides alloyed with Ni. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 6813-6818	6.7	75
80	Improving the hydrogen storage properties of MgH ₂ by reversibly forming MgAl solid solution alloys. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3320-3326	6.7	37
79	Microstructure evolution and life assessment of T92 steel during long-term creep. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 348-356	5.7	28
78	Towards easy reversible dehydrogenation of LiBH ₄ by catalyzing hierarchic nanostructured CoB. <i>Nano Energy</i> , 2014 , 10, 235-244	17.1	40
77	Facile self-assembly of light metal borohydrides with controllable nanostructures. <i>RSC Advances</i> , 2014 , 4, 983-986	3.7	16
76	Mg@M (TM: Ti, Nb, V, Co, Mo or Ni) core-shell like nanostructures: synthesis, hydrogen storage performance and catalytic mechanism. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9645-9655	13	167
75	Increased air stability and decreased dehydrogenation temperature of LiBH ₄ via modification within poly(methylmethacrylate). <i>Dalton Transactions</i> , 2014 , 43, 410-3	4.3	33
74	Low-cost method for sodium borohydride regeneration and the energy efficiency of its hydrolysis and regeneration process. <i>Journal of Power Sources</i> , 2014 , 269, 768-772	8.9	100
73	Reversible de-/hydriding characteristics of a novel Mg ₁₈ In ₁ Ni ₃ alloy. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 14033-14038	6.7	13
72	Enhanced high-rate discharge properties of La _{11.3} Mg _{6.0} Sm _{7.4} Ni _{61.0} Co _{7.2} Al _{7.1} with added graphene synthesized by plasma milling. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 12765-12772	6.7	172
71	In Situ Embedding of Mg ₂ NiH ₄ and YH ₃ Nanoparticles into Bimetallic Hydride NaMgH ₃ to Inhibit Phase Segregation for Enhanced Hydrogen Storage. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23635-23644	3.8	28
70	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , 2014 , 5, 3519	17.4	115
69	Structure and Deuterium Desorption from Ca ₃ Mg ₂ Ni ₁₃ Deuteride: A Neutron Diffraction Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4626-4633	3.8	14
68	Achieving highly efficient hydrogen generation and uniform Ag nanoparticle preparation via hydrolysis of Mg ₉ Ag alloy milled under hydrogen gas. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11867-11872	6.7	6
67	A systematic first-principles study of surface energies, surface relaxation and Friedel oscillation of magnesium surfaces. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 115305	3	29

66	Nitrogen-containing carbon nanostructures: A promising carrier for catalysis of ammonia borane dehydrogenation. <i>Carbon</i> , 2014 , 68, 462-472	10.4	24
65	Comparative investigation on the hydrogenation/dehydrogenation characteristics and hydrogen storage properties of Mg ₃ Ag and Mg ₃ Y. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13616-13621	6.7	38
64	Fully Reversible De/hydriding of Mg Base Solid Solutions with Reduced Reaction Enthalpy and Enhanced Kinetics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 12087-12096	3.8	37
63	Enhanced dehydriding thermodynamics and kinetics in Mg(In) _{1-x} MgF ₂ composite directly synthesized by plasma milling. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 113-117	5.7	188
62	Achieving an H-induced transparent state in 200 nm thick Mg ₃ Si film by amorphization. <i>Journal of Applied Physics</i> , 2014 , 115, 014304	2.5	3
61	Synthesis of carbon-coated Li ₃ VO ₄ and its high electrochemical performance as anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 252, 244-247	8.9	65
60	The effect of particle size on hydrolysis properties of Mg ₃ La hydrides. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13564-13568	6.7	67
59	A synergistic strategy established by the combination of two H-enriched B ₁₀ based hydrides towards superior dehydrogenation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10155	13	24
58	Preparation and dehydrogenation properties of two cobalt-based ammine borohydrides: CoCl ₃ B ₁₀ NH ₃ /3LiBH ₄ and CoCl ₂ B ₁₀ NH ₃ /2LiBH ₄ . <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 16208-16214	6.7	14 ⁶
57	Facilitating de/hydrogenation by long-period stacking ordered structure in Mg based alloys. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10438-10445	6.7	56
56	The high capacity and controllable hydrolysis rate of Mg ₃ La hydride. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S317-S319	5.7	15
55	Enhanced reversible hydrogen storage properties of a Mg ₃ In ₂ ternary solid solution. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10912-10918	6.7	57
54	Catalysis and hydrolysis properties of perovskite hydride NaMgH ₃ . <i>Journal of Alloys and Compounds</i> , 2013 , 580, S197-S201	5.7	14
53	Remarkable enhancement in dehydrogenation of MgH ₂ by a nano-coating of multi-valence Ti-based catalysts. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5603	13	164
52	Hydrogen storage of a novel combined system of LiNH ₂ -NaMgH ₃ : synergistic effects of in situ formed alkali and alkaline-earth metal hydrides. <i>Dalton Transactions</i> , 2013 , 42, 1810-9	4.3	17
51	Carbon nanomaterial-assisted morphological tuning for thermodynamic and kinetic destabilization in sodium alanates. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5238	13	22
50	Excellent hydrolysis performances of Mg ₃ RE hydrides. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2973-2978	6.7	99
49	Dual-tuning effect of In on the thermodynamic and kinetic properties of Mg ₂ Ni dehydrogenation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 8881-8887	6.7	170

48	Improving hydrogen storage properties of MgH ₂ by addition of alkali hydroxides. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10932-10938	6.7	16
47	Thermodynamic Tuning of Mg-Based Hydrogen Storage Alloys: A Review. <i>Materials</i> , 2013 , 6, 4654-4674	3.5	123
46	Immobilization of aluminum borohydride hexammoniate in a nanoporous polymer stabilizer for enhanced chemical hydrogen storage. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12659-63	16.4	17
45	Immobilization of Aluminum Borohydride Hexammoniate in a Nanoporous Polymer Stabilizer for Enhanced Chemical Hydrogen Storage. <i>Angewandte Chemie</i> , 2013 , 125, 12891-12895	3.6	15
44	On the multiple orientation relationship of the Mg/EMg ₁₇ Al ₁₂ precipitation system. <i>Journal of Applied Crystallography</i> , 2012 , 45, 224-233	3.8	11
43	(Nd(1.5)Mg(0.5))Ni ₇ -based compounds: structural and hydrogen storage properties. <i>Inorganic Chemistry</i> , 2012 , 51, 2976-83	5.1	59
42	Formation of Mg ₂ Ni with enhanced kinetics: Using MgH ₂ instead of Mg as a starting material. <i>Journal of Solid State Chemistry</i> , 2012 , 192, 210-214	3.3	11
41	The controllable hydrolysis rate for LaMg ₁₂ hydride. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12358-12364	6.7	35
40	Hydrogen storage properties of Mg ₁₂ TiNi nanocomposite induced from amorphous precursor with the highest Mg content. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14329-14335	6.7	65
39	Promoted hydrogen release from 3LiBH ₄ /MnF ₂ composite by doping LiNH ₂ : Elimination of diborane release and reduction of decomposition temperature. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18074-18079	6.7	3
38	Enhanced dehydrogenation of nanoscale MgH ₂ confined by ordered mesoporous silica. <i>Materials Chemistry and Physics</i> , 2012 , 136, 146-150	4.4	23
37	Phase transition and hydrogen storage properties of melt-spun Mg ₃ LaNi _{0.1} alloy. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 1145-1150	6.7	35
36	Enhanced dehydrogenation of ammonia borane by reaction with alkaline earth metal chlorides. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4274-4279	6.7	18
35	Superior Destabilization Effects of MnF ₂ over MnCl ₂ in the Decomposition of LiBH ₄ . <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13528-13533	3.8	36
34	Microstructure and hydrogen storage properties of Mg ₈ Ni nanocomposite by mechanical milling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4268-4272	5.7	58
33	Superior hydrogen storage kinetics of Mg ₁₂ YNi alloy with a long-period stacking ordered phase. <i>Scripta Materialia</i> , 2011 , 65, 233-236	5.6	85
32	Superior hydrogen storage properties of LiBH ₄ catalyzed by Mg(AlH ₄) ₂ . <i>Chemical Communications</i> , 2011 , 47, 5741-3	5.8	49
31	Improved dehydrogenation of TiF ₃ -doped NaAlH ₄ using ordered mesoporous SiO ₂ as a codopant. <i>Journal of Materials Research</i> , 2010 , 25, 2047-2053	2.5	17

30	Phase Stability, Structural Transition, and Hydrogen Absorption/Desorption Features of the Polymorphic La ₄ MgNi ₁₉ Compound. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11686-11692	3.8	69
29	Hydrogen storage and structure variation in Mg/Pd multi-layer film. <i>Journal of Alloys and Compounds</i> , 2010 , 504, 493-497	5.7	17
28	Synthesis, Crystal Structure, and Thermal Decomposition of Strontium Amidoborane. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1709-1714	3.8	91
27	The effects of Co and Ni addition on the hydrogen storage properties of Mg ₃ Mn. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8275-8280	6.7	18
26	The effect of Ni and Al addition on hydrogen generation of Mg ₃ La hydrides via hydrolysis. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8161-8165	6.7	72
25	Structure and hydrogen storage properties of Mg ₃ Pr and Mg ₃ PrNi _{0.1} alloys. <i>Scripta Materialia</i> , 2009 , 61, 339-342	5.6	126
24	Thermal stability, decomposition and glass transition behavior of PANI/NiO composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 98, 533-537	4.1	32
23	Heterogeneous coarsening of Pb phase and the effect of Cu addition on it in a nanophase composite of Al ₉₀ 0 wt%Pb alloy prepared by mechanical alloying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 501, 99-104	5.3	3
22	Production of hydrogen via hydrolysis of hydrides in Mg/La system. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9671-9676	6.7	98
21	High-capacity LiV ₃ O ₈ thin-film cathode with a mixed amorphous/nanocrystalline microstructure prepared by RF magnetron sputtering. <i>Electrochemistry Communications</i> , 2009 , 11, 2169-2172	5.1	32
20	Synergism of mechanical milling and dielectric barrier discharge plasma on the fabrication of nano-powders of pure metals and tungsten carbide. <i>Journal of Alloys and Compounds</i> , 2009 , 478, 624-629	5.7	54
19	Sputtered Al-doped lithium manganese oxide films for the cathode of lithium ion battery: The post-deposition annealing temperature effect. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 981-986	5.7	10
18	Hydrogen storage properties of LaMg ₂ Ni prepared by induction melting. <i>Journal of Alloys and Compounds</i> , 2009 , 485, 507-509	5.7	19
17	Hydrogen Storage Properties of Space-Confined NaAlH ₄ Nanoparticles in Ordered Mesoporous Silica. <i>Chemistry of Materials</i> , 2008 , 20, 3954-3958	9.6	155
16	Effect of ball milling on hydrogen storage of Mg ₃ La alloy. <i>Journal of Rare Earths</i> , 2008 , 26, 303-306	3.7	26
15	Mg ₃ Mn compound based hydrogen storage materials. <i>Journal of Alloys and Compounds</i> , 2007 , 446-447, 124-128	5.7	24
14	The hydrogen storage behavior of Mg ₃ La and Mg ₃ LaNi _{0.1} . <i>Scripta Materialia</i> , 2006 , 55, 1075-1078	5.6	123
13	Effect of Ni on Mg based hydrogen storage alloy Mg ₃ Nd. <i>Rare Metals</i> , 2006 , 25, 289-294	5.5	3

12	MgNi/Pd multilayer hydrogen storage thin films prepared by dc magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2006 , 422, 58-61	5.7	29
11	The effect of nanocrystalline formation on the hydrogen storage properties of AB3-base M1MgNi multi-phase alloys. <i>Journal of Alloys and Compounds</i> , 2006 , 426, 316-321	5.7	36
10	The effect of Cu addition and milling contaminations on the microstructure evolution of ball milled AlBb alloy during sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 434, 352-359	5.3	5
9	Composite structure and hydrogen storage properties in Mg-base alloys. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 251-257	6.7	157
8	Microstructure of MmM5/Mg multi-layer films prepared by magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 485-489	5.7	16
7	Ostwald ripening of Pb nanocrystalline phase in mechanically milled AlBb alloys and the influence of Cu additive. <i>Scripta Materialia</i> , 2005 , 53, 529-533	5.6	9
6	Direct synthesis of MgCNi3 by mechanical alloying. <i>Scripta Materialia</i> , 2004 , 50, 1471-1474	5.6	14
5	Microstructure of MmM(5)/Mg multi-layer hydrogen storage films prepared by magnetron sputtering. <i>Microscopy Research and Technique</i> , 2004 , 64, 323-9	2.8	15
4	MmM5/Mg multi-layer hydrogen storage thin films prepared by dc magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2004 , 370, L4-L6	5.7	17
3	Hydrogen sorption properties of Mg/MmNi multi-layer film prepared by thermal evaporation. <i>Journal of Alloys and Compounds</i> , 2004 , 375, 313-317	5.7	13
2	Formation of MgCNi3 and MgNi amorphous mixture by mechanical alloying of MgNiC system. <i>Materials Letters</i> , 2004 , 58, 2203-2206	3.3	15
1	Microstructure and wear properties of AlBbCu alloys prepared by mechanical alloying. <i>Wear</i> , 2002 , 253, 832-838	3.5	23