

Liuzhang Ouyang

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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	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
262	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
261	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
260	Enhancing the Regeneration Process of Consumed NaBH ₄ for Hydrogen Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700299	21.8	223
259	Monodisperse magnesium hydride nanoparticles uniformly self-assembled on graphene. <i>Advanced Materials</i> , 2015 , 27, 5981-8	24	220
258	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
257	Enhanced dehydriding thermodynamics and kinetics in Mg(In)MgF ₂ composite directly synthesized by plasma milling. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 113-117	5.7	188
256	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
255	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
254	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
253	MgM (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
252	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
251	Composite structure and hydrogen storage properties in Mg-base alloys. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 251-257	6.7	157
250	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
249	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
248	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
247	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

246	Hydrolysis and regeneration of sodium borohydride (NaBH ₄) [A combination of hydrogen production and storage. <i>Journal of Power Sources</i> , 2017 , 359, 400-407	8.9	129
245	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
244	Thermodynamic Tuning of Mg-Based Hydrogen Storage Alloys: A Review. <i>Materials</i> , 2013 , 6, 4654-4674	3.5	123
243	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
242	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
241	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
240	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
239	A mechanical-force-driven physical vapour deposition approach to fabricating complex hydride nanostructures. <i>Nature Communications</i> , 2014 , 5, 3519	17.4	115
238	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
237	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
236	Hydrogen production via hydrolysis of Mg-oxide composites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22305-22311	6.7	99
235	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
234	Excellent hydrolysis performances of Mg ₃ RE hydrides. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2973-2978	6.7	99
233	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
232	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
231	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
230	Thermodynamics of concentrated solid solution alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2017 , 21, 238-251	12	95
229	Synthesis, Crystal Structure, and Thermal Decomposition of Strontium Amidoborane. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1709-1714	3.8	91

228	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
227	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
226	Ilmenite Nanotubes for High Stability and High Rate Sodium-Ion Battery Anodes. <i>ACS Nano</i> , 2017 , 11, 5120-5129	16.7	84
225	Magnesium-based hydrogen storage compounds: A review. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154865	5.7	84
224	Express penetration of hydrogen on Mg(10 13) along the close-packed-planes. <i>Scientific Reports</i> , 2015 , 5, 10776	4.9	81
223	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
222	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
221	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
220	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
219	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
218	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
217	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
216	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
215	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
214	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
213	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
212	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
211	Promoting hydrogen generation from the hydrolysis of Mg-Graphite composites by plasma-assisted milling. <i>Energy</i> , 2019 , 167, 1205-1211	7.9	68

210	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
209	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
208	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
207	Hydrogen storage properties of Mg ₃ Te ₂ Ni nanocomposite induced from amorphous precursor with the highest Mg content. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14329-14335	6.7	65
206	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
205	Advanced high-pressure metal hydride fabricated via Ti _{0.7} Cr _{0.3} Mn alloys for hybrid tank. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 2717-2728	6.7	64
204	Development of ZrFeV alloys for hybrid hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11242-11253	6.7	62
203	Hydrogen storage in light-metal based systems: A review. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154597	5.7	61
202	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
201	(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
200	Microstructure and hydrogen storage properties of Mg ₃ Ni nanocomposite by mechanical milling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 4268-4272	5.7	58
199	Enhanced reversible hydrogen storage properties of a Mg ₃ Th ₂ ternary solid solution. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 10912-10918	6.7	57
198	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
197	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
196	Composition design of Ti _{0.7} Cr _{0.3} MnBe alloys for hybrid high-pressure metal hydride tanks. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 452-457	5.7	53
195	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
194	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
193	Hydrogen generation via hydrolysis of Mg ₂ Si. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 108-115	5.7	50

192	Superior hydrogen storage properties of LiBH ₄ catalyzed by Mg(AlH ₄) ₂ . <i>Chemical Communications</i> , 2011 , 47, 5741-3	5.8	49
191	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
190	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
189	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
188	Enhanced hydrogen storage properties of a Mg ₃ Ag alloy with solid dissolution of indium: a comparative study. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8581-8589	13	40
187	Towards easy reversible dehydrogenation of LiBH ₄ by catalyzing hierarchic nanostructured CoB. <i>Nano Energy</i> , 2014 , 10, 235-244	17.1	40
186	Phase transition and hydrogen storage properties of Mg ₃ Ga alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 642, 180-184	5.7	39
185	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
184	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
183	Robust spindle-structured FeP@C for high-performance alkali-ion batteries anode. <i>Electrochimica Acta</i> , 2019 , 312, 224-233	6.7	37
182	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
181	Improving the hydrogen storage properties of MgH ₂ by reversibly forming Mg ₃ Al solid solution alloys. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 3320-3326	6.7	37
180	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
179	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
178	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
177	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
176	The effect of nanocrystalline formation on the hydrogen storage properties of AB ₃ -base M ₁ Mg ₂ Ni multi-phase alloys. <i>Journal of Alloys and Compounds</i> , 2006 , 426, 316-321	5.7	36
175	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

174	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
173	The controllable hydrolysis rate for LaMg ₁₂ hydride. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12358-12364	6.7	35
172	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
171	A ZnGeP ₂ /C anode for lithium-ion and sodium-ion batteries. <i>Electrochemistry Communications</i> , 2017 , 77, 85-88	5.1	33
170	Co-Substitution Enhances the Rate Capability and Stabilizes the Cyclic Performance of O ₃ -Type Cathode NaNiMnTiCo O for Sodium-Ion Storage at High Voltage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7906-7913	9.5	33
169	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
168	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
167	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
166	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
165	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
164	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
163	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
162	Synthesis of N-doped hierarchical carbon spheres for CO ₂ capture and supercapacitors. <i>RSC Advances</i> , 2016 , 6, 1422-1427	3.7	31
161	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
160	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
159	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
158	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
157	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

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- ¹⁵³ NaBH₄ regeneration from NaBO₂ by high-energy ball milling and its plausible mechanism. *International Journal of Hydrogen Energy*, **2017**, 42, 13127-13135 6.7 28
- ¹⁵² Synthesis, structure and dehydrogenation of zirconium borohydride octaammoniate. *Chemical Communications*, **2015**, 51, 2794-7 5.8 28
- ¹⁵¹ Destabilizing the dehydriding thermodynamics of MgH₂ by reversible intermetallics formation in MgAgZn ternary alloys. *Journal of Power Sources*, **2018**, 396, 796-802 8.9 28
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- ¹⁴⁹ In Situ Embedding of Mg₂NiH₄ and YH₃ Nanoparticles into Bimetallic Hydride NaMgH₃ to Inhibit Phase Segregation for Enhanced Hydrogen Storage. *Journal of Physical Chemistry C*, **2014**, 118, 23635-23644 3.8 28
- ¹⁴⁸ Comparative Investigations on Hydrogen Absorption/Desorption Properties of SmMgNi Compounds: The Effect of [SmNi₅]/[SmMgNi₄] Unit Ratio. *Journal of Physical Chemistry C*, **2015**, 119, 4719-4727 3.8 28
- ¹⁴⁷ Reversible hydrogen storage in yttrium aluminum hydride. *Journal of Materials Chemistry A*, **2017**, 5, 60423-60462 3.6 27
- ¹⁴⁶ Effect of ball milling on hydrogen storage of Mg₃La alloy. *Journal of Rare Earths*, **2008**, 26, 303-306 3.7 26
- ¹⁴⁵ Paragenesis of Palladium-Cobalt Nanoparticle in Nitrogen-Rich Carbon Nanotubes as a Bifunctional Electrocatalyst for Hydrogen-Evolution Reaction and Oxygen-Reduction Reaction. *Chemistry - A European Journal*, **2017**, 23, 7710-7718 4.8 25
- ¹⁴⁴ Recent progress of transition metal carbides/nitrides for electrocatalytic water splitting. *Journal of Alloys and Compounds*, **2021**, 883, 160833 5.7 25
- ¹⁴³ Growth mechanism of black phosphorus synthesized by different ball milling techniques. *Journal of Alloys and Compounds*, **2019**, 784, 339-346 5.7 24
- ¹⁴² Nitrogen-containing carbon nanostructures: A promising carrier for catalysis of ammonia borane dehydrogenation. *Carbon*, **2014**, 68, 462-472 10.4 24
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- ¹⁴⁰ Mg₃Mm compound based hydrogen storage materials. *Journal of Alloys and Compounds*, **2007**, 446-447, 124-128 5.7 24
- ¹³⁹ Enhanced dehydrogenation of nanoscale MgH₂ confined by ordered mesoporous silica. *Materials Chemistry and Physics*, **2012**, 136, 146-150 4.4 23

138	Microstructure and wear properties of Al ₁₀ Pb ₁₀ Ti alloys prepared by mechanical alloying. <i>Wear</i> , 2002 , 253, 832-838	3.5	23
137	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
136	Exfoliation of MoS and h-BN nanosheets by hydrolysis of LiBH. <i>Nanotechnology</i> , 2017 , 28, 115604	3.4	22
135	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
134	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
133	Realizing facile regeneration of spent NaBH ₄ with Mg ₂ Al alloy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10723-10728	13	21
132	Citraconic anhydride as an electrolyte additive to improve the high temperature performance of LiNi _{0.5} 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
131	Reversible De/hydriding Reactions between Two New Mg ₂ Ni Compounds with Improved Thermodynamics and Kinetics. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26858-26865	3.8	21
130	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
129	Ammonia borane modified zirconium borohydride octaammoniate with enhanced dehydrogenation properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5299-5304	13	20
128	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
127	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
126	Sodium borohydride regeneration via direct hydrogen transformation of sodium metaborate tetrahydrate. <i>Journal of Power Sources</i> , 2018 , 390, 71-77	8.9	18
125	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
124	The effects of Co and Ni addition on the hydrogen storage properties of Mg ₃ Mm. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8275-8280	6.7	18
123	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
122	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
121	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

120	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
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