

Dongming Liu

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	â€œDoping Triggers Redox Reactivities of Both Iron and Lattice Oxygen in FeOOH for Low-Cost and High-Performance Water Oxidation. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	79
2	Superior hydrogen storage properties of LiBH ₄ catalyzed by Mg(AlH ₄) ₂ . <i>Chemical Communications</i> , 2011, 47, 5741.	2.2	49
3	Mechanism of the high activity of Mg ₂ NiH ₄ produced by hydriding combustion synthesis based on the analysis of phase composition, particle characteristic and grain size. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2455-2460.	3.8	32
4	Hydrogen absorption in Ti ₄₅ Zr ₃₅ Ni ₁₇ Cu ₃ Ti ₄₅ Zr ₃₅ Ni ₁₇ Cu ₃ amorphous and quasicrystalline alloy powders. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2429-2433.	3.8	22
5	Solid solution of Cu in Mg ₂ NiH ₄ and its destabilized effect on hydrogen desorption. <i>Materials Chemistry and Physics</i> , 2017, 193, 1-6.	2.0	19
6	Microstructure characterization and hydrogen storage properties study of Mg ₂ Ni _{0.92} Mo _{0.08} (M = Ti, V). <i>Journal of Alloys and Compounds</i> , 2008, 458, 394-397.	1.8	15
7	Hydriding combustion synthesis of Mg-CaNi ₅ composites. <i>Journal of Alloys and Compounds</i> , 2008, 458, 394-397.	2.8	11
8	Enhanced Low-Temperature Hydrogen Storage in Nanoporous Ni-Based Alloy Supported LiBH ₄ . <i>Frontiers in Chemistry</i> , 2020, 8, 283.	1.8	10
9	Influence of surface structure on the performance of mono-like Si PERC solar cell. <i>Materials Science in Semiconductor Processing</i> , 2021, 126, 105662.	1.9	10
10	Three-dimensional porous cobalt as an efficient catalyst for hydrogen production by NaBH ₄ hydrolysis. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 134, 665-675.	0.8	8
11	Enhancement of the ionic conductivity of lithium borohydride by silica supports. <i>Dalton Transactions</i> , 2021, 50, 15352-15358.	1.6	5
12	Effect of Microstructure on Hydrogen Permeation in EA4T and 30CrNiMoV12 Railway Axle Steels. <i>Metals</i> , 2019, 9, 164.	1.0	4
13	Tuning back side passivation for enhancing the performance of PERC solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111319.	3.0	4
14	The superior desorption properties of MgCl ₂ -added ammonia borane compared to MgF ₂ -added systemsâ€”the unexpected role of MgCl ₂ interacting with [NH ₃] units. <i>RSC Advances</i> , 2017, 7, 36684-36687.	1.7	3
15	Effect of surface oxidation on the hydriding and dehydriding of Mg ₂ Ni alloy produced by hydriding combustion synthesis. <i>Journal of Materials Science</i> , 2007, 42, 9725-9729.	1.7	2
16	Enhancement of the conversion efficiency of selective emitter PERC solar cells by post-oxidation. <i>Materials Science in Semiconductor Processing</i> , 2022, 149, 106882.	1.9	2
17	Phase component and microstructure of laser-sintered Mg-Ni alloys. <i>Rare Metals</i> , 2008, 27, 400-404.	3.6	1
18	Hydrogen Storage Properties and Reactive Mechanism of LiBH ₄ /Mg ₁₀ Y-Ni-H Composite. <i>Materials Research</i> , 2019, 22, .	0.6	1

#	ARTICLE	IF	CITATIONS
19	Direct mechanochemical formation of alkali metal borohydrides nanocrystals exhibiting kinetic and thermodynamic destabilizations. International Journal of Hydrogen Energy, 2016, 41, 2807-2813.	3.8	0
20	Thermal Dehydrogenation Characteristics of Li-Sr-Al-N-H Hydrogen Storage System. Materials Research, 2018, 21, .	0.6	0
21	Hydrogen-induced change of oxidation combustion characteristics of Al ₂ Mg alloy. International Journal of Hydrogen Energy, 2022, 47, 11686-11693.	3.8	0