

Xinhua Wang

List of Publications by Year in descending order

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28
papers

1,051
citations

361413

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501196

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times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinations of V ₂ C and Ti ₃ C ₂ MXenes for Boosting the Hydrogen Storage Performances of MgH ₂ . ACS Applied Materials & Interfaces, 2021, 13, 13235-13247.	8.0	111
2	High-Yield Two-Dimensional Metal-Organic Framework Derivatives for Wideband Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2021, 13, 20459-20466.	8.0	55
3	CNTs decorated with CoFeB as a dopant to remarkably improve the dehydrogenation/rehydrogenation performance and cyclic stability of MgH ₂ . International Journal of Hydrogen Energy, 2020, 45, 28964-28973.	7.1	26
4	MoSe ₂ hollow nanospheres decorated with FeNi ₃ nanoparticles for enhancing the hydrogen storage properties of MgH ₂ . Journal of Alloys and Compounds, 2020, 830, 154631.	5.5	21
5	Effects of nano-composites (FeB, FeB/CNTs) on hydrogen storage properties of MgH ₂ . Journal of Power Sources, 2019, 438, 227006.	7.8	57
6	The Dehydrogenation Mechanism and Cycling Property of MgH ₂ Modified by CoB/CNTs Addition. ChemistrySelect, 2019, 4, 9934-9939.	1.5	4
7	Wet Chemical Synthesis of Non-solvated Rod-Like AlH_3 as a Hydrogen Storage Material. Frontiers in Chemistry, 2019, 7, 892.	3.6	11
8	Hydrogen storage properties of nano-CoB/CNTs catalyzed MgH ₂ . Journal of Alloys and Compounds, 2018, 735, 635-642.	5.5	45
9	Improved hydrogen desorption properties of LiBH ₄ by AlH ₃ addition. International Journal of Hydrogen Energy, 2016, 41, 22118-22127.	7.1	48
10	Synergistically thermodynamic and kinetic tailoring of the hydrogen desorption properties of MgH ₂ by co-addition of AlH ₃ and CeF ₃ . RSC Advances, 2015, 5, 22091-22096.	3.6	41
11	Study on hydrogen generation from the hydrolysis of a ball milled aluminum/calcium hydride composite. RSC Advances, 2015, 5, 60460-60466.	3.6	20
12	Effect of salts addition on the hydrogen generation of Al-LiH composite elaborated by ball milling. Energy, 2015, 89, 907-913.	8.8	35
13	Hydrogen generation from Mg-LiBH ₄ hydrolysis improved by AlCl ₃ addition. Energy, 2014, 68, 548-554.	8.8	43
14	Hydrogen Desorption Properties of the MgH ₂ -AlH ₃ Composites. Journal of Physical Chemistry C, 2014, 118, 37-45.	3.1	74
15	In situ synthesis of SnO ₂ nanoparticles encapsulated in micro/mesoporous carbon foam as a high-performance anode material for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 18367-18374.	10.3	64
16	Carbon encapsulated 3D hierarchical Fe ₃ O ₄ spheres as advanced anode materials with long cycle lifetimes for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 14641-14648.	10.3	62
17	Microstructures and Hydrogen Desorption Properties of the MgH ₂ -AlH ₃ Composite with NbF ₅ Addition. Journal of Physical Chemistry C, 2014, 118, 18908-18916.	3.1	30
18	Improved hydrogen storage properties of MgH ₂ by ball milling with AlH ₃ : preparations, de/rehydrating properties, and reaction mechanisms. Journal of Materials Chemistry A, 2013, 1, 12527.	10.3	70

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19	High catalytic efficiency of amorphous TiB ₂ and NbB ₂ nanoparticles for hydrogen storage using the 2LiBH ₄ –MgH ₂ system. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11368.	10.3	47
20	Hydrogen storage properties of LiBH ₄ –Li ₃ AlH ₆ composites. <i>Journal of Alloys and Compounds</i> , 2012, 517, 127-131.	5.5	27
21	Direct preparation of LiBH ₄ from pre-treated LiH+B mixture at high pressure. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3481-3485.	5.5	15
22	Hydrogen absorption/desorption properties of Li–Al–N–H composite. <i>Materials Chemistry and Physics</i> , 2011, 126, 989-992.	4.0	3
23	An investigation on the reaction mechanism of LiAlH ₄ –MgH ₂ hydrogen storage system. <i>Materials Chemistry and Physics</i> , 2010, 124, 83-87.	4.0	53
24	Investigation on reversible hydrogen storage properties of Li ₃ AlH ₆ /2LiNH ₂ composite. <i>Journal of Alloys and Compounds</i> , 2010, 494, 58-61.	5.5	12
25	An investigation on the reaction pathway between LiAlH ₄ and LiNH ₂ via gaseous ammonia. <i>Journal of Alloys and Compounds</i> , 2010, 495, 17-22.	5.5	6
26	Effects of ball-milling time and Bi ₂ O ₃ addition on electrochemical performance of ball-milled La ₂ Mg ₁₇ +200wt.% Ni composites. <i>Journal of Alloys and Compounds</i> , 2006, 416, 194-198.	5.5	15
27	Hydrogen storage alloys for high-pressure suprapure hydrogen compressor. <i>Journal of Alloys and Compounds</i> , 2006, 420, 322-325.	5.5	53
28	Study of local stress using stress-absorbing Si diaphragm. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 2178.	1.6	3