

# Xinhua Wang

## List of Publications by Year in descending order

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28  
papers

1,051  
citations

361413

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h-index

501196

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29  
docs citations

29  
times ranked

890  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combinations of V <sub>2</sub> C and Ti <sub>3</sub> C <sub>2</sub> MXenes for Boosting the Hydrogen Storage Performances of MgH <sub>2</sub> . ACS Applied Materials & Interfaces, 2021, 13, 13235-13247.	8.0	111
2	Hydrogen Desorption Properties of the MgH <sub>2</sub> -AlH <sub>3</sub> Composites. Journal of Physical Chemistry C, 2014, 118, 37-45.	3.1	74
3	Improved hydrogen storage properties of MgH <sub>2</sub> by ball milling with AlH <sub>3</sub> : preparations, de/rehydrating properties, and reaction mechanisms. Journal of Materials Chemistry A, 2013, 1, 12527.	10.3	70
4	In situ synthesis of SnO <sub>2</sub> 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
5	Carbon encapsulated 3D hierarchical Fe <sub>3</sub> O <sub>4</sub> 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
6	Effects of nano-composites (FeB, FeB/CNTs) on hydrogen storage properties of MgH <sub>2</sub> . Journal of Power Sources, 2019, 438, 227006.	7.8	57
7	High-Yield Two-Dimensional Metal-Organic Framework Derivatives for Wideband Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2021, 13, 20459-20466.	8.0	55
8	Hydrogen storage alloys for high-pressure suprapure hydrogen compressor. Journal of Alloys and Compounds, 2006, 420, 322-325.	5.5	53
9	An investigation on the reaction mechanism of LiAlH <sub>4</sub> -MgH <sub>2</sub> hydrogen storage system. Materials Chemistry and Physics, 2010, 124, 83-87.	4.0	53
10	Improved hydrogen desorption properties of LiBH <sub>4</sub> by AlH <sub>3</sub> addition. International Journal of Hydrogen Energy, 2016, 41, 22118-22127.	7.1	48
11	High catalytic efficiency of amorphous TiB <sub>2</sub> and NbB <sub>2</sub> nanoparticles for hydrogen storage using the 2LiBH <sub>4</sub> -MgH <sub>2</sub> system. Journal of Materials Chemistry A, 2013, 1, 11368.	10.3	47
12	Hydrogen storage properties of nano-CoB/CNTs catalyzed MgH <sub>2</sub> . Journal of Alloys and Compounds, 2018, 735, 635-642.	5.5	45
13	Hydrogen generation from Mg-LiBH <sub>4</sub> hydrolysis improved by AlCl <sub>3</sub> addition. Energy, 2014, 68, 548-554.	8.8	43
14	Synergistically thermodynamic and kinetic tailoring of the hydrogen desorption properties of MgH <sub>2</sub> by co-addition of AlH <sub>3</sub> and CeF <sub>3</sub> . RSC Advances, 2015, 5, 22091-22096.	3.6	41
15	Effect of salts addition on the hydrogen generation of Al-LiH composite elaborated by ball milling. Energy, 2015, 89, 907-913.	8.8	35
16	Microstructures and Hydrogen Desorption Properties of the MgH <sub>2</sub> -AlH <sub>3</sub> Composite with NbF <sub>5</sub> Addition. Journal of Physical Chemistry C, 2014, 118, 18908-18916.	3.1	30
17	Hydrogen storage properties of LiBH <sub>4</sub> -Li <sub>3</sub> AlH <sub>6</sub> composites. Journal of Alloys and Compounds, 2012, 517, 127-131.	5.5	27
18	CNTs decorated with CoFeB as a dopant to remarkably improve the dehydrogenation/rehydrogenation performance and cyclic stability of MgH <sub>2</sub> . International Journal of Hydrogen Energy, 2020, 45, 28964-28973.	7.1	26

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19	MoSe <sub>2</sub> hollow nanospheres decorated with FeNi <sub>3</sub> nanoparticles for enhancing the hydrogen storage properties of MgH <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , 2020, 830, 154631.	5.5	21
20	Study on hydrogen generation from the hydrolysis of a ball milled aluminum/calcium hydride composite. <i>RSC Advances</i> , 2015, 5, 60460-60466.	3.6	20
21	Effects of ball-milling time and Bi <sub>2</sub> O <sub>3</sub> addition on electrochemical performance of ball-milled La <sub>2</sub> Mg <sub>17</sub> +200wt.% Ni composites. <i>Journal of Alloys and Compounds</i> , 2006, 416, 194-198.	5.5	15
22	Direct preparation of LiBH <sub>4</sub> from pre-treated LiH+B mixture at high pressure. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3481-3485.	5.5	15
23	Investigation on reversible hydrogen storage properties of Li <sub>3</sub> AlH <sub>6</sub> /2LiNH <sub>2</sub> composite. <i>Journal of Alloys and Compounds</i> , 2010, 494, 58-61.	5.5	12
24	Wet Chemical Synthesis of Non-solvated Rod-Like $\text{Li}^+\text{-AlH}_3$ as a Hydrogen Storage Material. <i>Frontiers in Chemistry</i> , 2019, 7, 892.	3.6	11
25	An investigation on the reaction pathway between LiAlH <sub>4</sub> and LiNH <sub>2</sub> via gaseous ammonia. <i>Journal of Alloys and Compounds</i> , 2010, 495, 17-22.	5.5	6
26	The Dehydrogenation Mechanism and Cycling Property of MgH <sub>2</sub> Modified by CoB/CNTs Addition. <i>ChemistrySelect</i> , 2019, 4, 9934-9939.	1.5	4
27	Study of local stress using stress-absorbing Si diaphragm. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 2178.	1.6	3
28	Hydrogen absorption/desorption properties of Li <sup>+</sup> Al <sup>-</sup> N <sup>-</sup> H composite. <i>Materials Chemistry and Physics</i> , 2011, 126, 989-992.	4.0	3