

Nurul Shafikah Mohd Mustafa

List of Publications by Year in descending order

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papers

1,342
citations

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docs citations

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460
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen sorption improvement of MgH ₂ catalyzed by CeO ₂ nanopowder. Journal of Alloys and Compounds, 2017, 695, 2532-2538.	5.5	107
2	The hydrogen storage properties and catalytic mechanism of the CuFe ₂ O ₄ -doped MgH ₂ composite system. International Journal of Hydrogen Energy, 2019, 44, 318-324.	7.1	91
3	Improved Hydrogen Storage Properties of MgH ₂ Co-Doped with FeCl ₃ and Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 18878-18883.	3.1	85
4	MnFe ₂ O ₄ nanopowder synthesised via a simple hydrothermal method for promoting hydrogen sorption from MgH ₂ . International Journal of Hydrogen Energy, 2017, 42, 21114-21120.	7.1	79
5	Synthesis of BaFe ₁₂ O ₁₉ by solid state method and its effect on hydrogen storage properties of MgH ₂ . International Journal of Hydrogen Energy, 2018, 43, 20853-20860.	7.1	74
6	Improved hydrogen storage properties of MgH ₂ by addition of Co ₂ NiO nanoparticles. RSC Advances, 2015, 5, 60983-60989.	3.6	70
7	Catalytic effect of CeCl ₃ on the hydrogen storage properties of MgH ₂ . Materials Chemistry and Physics, 2016, 170, 77-82.	4.0	70
8	Improved hydrogen storage properties of MgH ₂ catalyzed with K ₂ NiF ₆ . Journal of Energy Chemistry, 2016, 25, 832-839.	12.9	68
9	Improvement of hydrogen storage properties in MgH ₂ catalysed by K ₂ NbF ₇ . International Journal of Hydrogen Energy, 2018, 43, 14532-14540.	7.1	68
10	Effect of Na ₃ FeF ₆ catalyst on the hydrogen storage properties of MgH ₂ . Dalton Transactions, 2016, 45, 7085-7093.	3.3	62
11	Nanolayer-like-shaped MgFe ₂ O ₄ synthesised via a simple hydrothermal method and its catalytic effect on the hydrogen storage properties of MgH ₂ . RSC Advances, 2018, 8, 15667-15674.	3.6	56
12	Influence of K ₂ TiF ₆ additive on the hydrogen sorption properties of MgH ₂ . International Journal of Hydrogen Energy, 2014, 39, 15563-15569.	7.1	55
13	Study on the hydrogen storage properties and reaction mechanism of NaAlH ₄ •Mg(BH ₄) ₂ (2:1) with and without TiF ₃ additive. International Journal of Hydrogen Energy, 2015, 40, 7628-7635.	7.1	52
14	A study on the effects of K ₂ ZrF ₆ as an additive on the microstructure and hydrogen storage properties of MgH ₂ . RSC Advances, 2015, 5, 9255-9260.	3.6	47
15	Effect of SrFe ₁₂ O ₁₉ nanopowder on the hydrogen sorption properties of MgH ₂ . RSC Advances, 2016, 6, 110004-110010.	3.6	46
16	Enhanced hydrogen storage properties of 4MgH ₂ •LiAlH ₄ composite system by doping with Fe ₂ O ₃ nanopowder. International Journal of Hydrogen Energy, 2014, 39, 7834-7841.	7.1	45
17	Effect of K ₂ TiF ₆ additive on the hydrogen storage properties of 4MgH ₂ •LiAlH ₄ destabilized system. International Journal of Hydrogen Energy, 2015, 40, 7671-7677.	7.1	32
18	The hydrogen storage properties and reaction mechanism of the NaAlH ₄ •Ca(BH ₄) ₂ composite system. International Journal of Hydrogen Energy, 2018, 43, 11132-11140.	7.1	27

#	ARTICLE	IF	CITATIONS
19	Dehydrogenation Properties and Catalytic Mechanism of the $K_{2}NiF_{6}$ -Doped $NaAlH_{4}$ System. ACS Omega, 2018, 3, 17100-17107.	3.5	22
20	Improved hydrogen storage properties of $NaAlH_{4}MgH_{2}LiBH_{4}$ ternary-hydride system catalyzed by TiF_{3} . International Journal of Hydrogen Energy, 2016, 41, 18107-18113.	7.1	21
21	A study on the hydrogen storage properties and reaction mechanism of $Na_{3}AlH_{6}LiBH_{4}$ composite system. International Journal of Hydrogen Energy, 2018, 43, 8365-8374.	7.1	19
22	Enhanced dehydrogenation performance of $NaAlH_{4}$ by the addition of spherical $SrTiO_{3}$. International Journal of Energy Research, 2021, 45, 8648-8658.	4.5	19
23	Modifying the hydrogen storage performances of $NaBH_{4}$ by catalyzing with $MgFe_{2}O_{4}$ synthesized via hydrothermal method. International Journal of Hydrogen Energy, 2019, 44, 6720-6727.	7.1	18
24	Intensive investigation on hydrogen storage properties and reaction mechanism of the $NaBH_{4}$ - $Li_{3}AlH_{6}$ destabilized system. International Journal of Hydrogen Energy, 2019, 44, 21965-21978.	7.1	17
25	Significant effect of TiF_{3} on the performance of $2NaAlH_{4}+Ca(BH_{4})_{2}$ hydrogen storage properties. International Journal of Hydrogen Energy, 2019, 44, 21979-21987.	7.1	16
26	Enhanced the hydrogen storage properties and reaction mechanisms of $4MgH_{2}+LiAlH_{4}$ composite system by addition with TiO_{2} . International Journal of Energy Research, 2021, 45, 21365-21374.	4.5	15
27	Recent Advances on $Mg-Li-Al$ Systems for Solid-State Hydrogen Storage: A Review. Frontiers in Energy Research, 2022, 10, .	2.3	13
28	Hydrogen storage properties of $4MgH_{2}+Li_{3}AlH_{6}$ composite improved by the addition of $K_{2}TiF_{6}$. International Journal of Hydrogen Energy, 2015, 40, 12713-12720.	7.1	12
29	Enhanced hydrogen storage properties of $K_{2}TiF_{6}$ doped $Mg-Na-Al$ composite system. Materials Chemistry and Physics, 2018, 217, 350-356.	4.0	10
30	Study of the Hydrogen Storage Properties and Catalytic Mechanism of a $MgH_{2}+Na_{3}AlH_{6}$ System Incorporating $FeCl_{3}$. ACS Omega, 2021, 6, 18948-18956.	3.5	8
31	An investigation on the addition of $SrTiO_{3}$ to the hydrogen storage properties of the $4MgH_{2}+Li_{3}AlH_{6}$ composite. International Journal of Energy Research, 2022, 46, 8030-8041.	4.5	8
32	Study the Effect of NiF_{2} Additive on the Hydrogen Sorption Properties of $4MgH_{2}+Li_{3}AlH_{6}$ Destabilized System. Materials Today: Proceedings, 2016, 3, S96-S103.	1.8	6
33	Novel materials and technologies for hydrogen storage. , 2020, , 337-365.		4