Mohammad Ismail

List of Publications by Year
in descending order

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88 papers	3,650 citations	71061 41 h-index	138417 58 g-index
88 all docs	88 docs citations	88 times ranked	991 citing authors

#	Article	IF	Citations
1	Hydrogen sorption improvement of MgH2 catalyzed by CeO2 nanopowder. Journal of Alloys and Compounds, 2017, 695, 2532-2538.	2.8	107
2	Effect of LaCl 3 addition on the hydrogen storage properties of MgH 2. Energy, 2015, 79, 177-182.	4.5	106
3	Effects of NbF5 addition on the hydrogen storage properties of LiAlH4. International Journal of Hydrogen Energy, 2010, 35, 2361-2367.	3.8	105
4	Catalytic effect of SrTiO3 on the hydrogen storage behaviour of MgH2. Journal of Energy Chemistry, 2019, 28, 46-53.	7.1	104
5	The effect of K2SiF6 on the MgH2 hydrogen storage properties. Journal of Magnesium and Alloys, 2020, 8, 832-840.	5.5	103
6	The hydrogen storage properties and catalytic mechanism of the CuFe2O4-doped MgH2 composite system. International Journal of Hydrogen Energy, 2019, 44, 318-324.	3.8	91
7	Effects of CNTs on the hydrogen storage properties of MgH2 and MgH2-BCC composite. International Journal of Hydrogen Energy, 2010, 35, 7821-7826.	3.8	90
8	Nanoflakes MgNiO2 synthesised via a simple hydrothermal method and its catalytic roles on the hydrogen sorption performance of MgH2. Journal of Alloys and Compounds, 2019, 796, 279-286.	2.8	90
9	The hydrogen storage properties and reaction mechanism of the MgH 2 â€“NaAlH 4 composite system. International Journal of Hydrogen Energy, 2011, 36, 9045-9050.	3.8	85
10	Improved Hydrogen Storage Properties of MgH₂ Co-Doped with FeCl₃ and Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 18878-18883.	1.5	85
11	LaFeO3 synthesised by solid-state method for enhanced sorption properties of MgH2. Results in Physics, 2020, 16, 102844.	2.0	84
12	Advanced hydrogen storage of the Mgâ€“Naâ€“Al system: A review. Journal of Magnesium and Alloys, 2021, 9, 1111-1122.	5.5	83
13	Improved hydrogen desorption in lithium alanate by addition of SWCNTâ€“metallic catalyst composite. International Journal of Hydrogen Energy, 2011, 36, 3593-3599.	3.8	81
14	MnFe2O4 nanopowder synthesised via a simple hydrothermal method for promoting hydrogen sorption from MgH2. International Journal of Hydrogen Energy, 2017, 42, 21114-21120.	3.8	79
15	Influence of different amounts of FeCl3 on decomposition and hydrogen sorption kinetics of MgH2. International Journal of Hydrogen Energy, 2014, 39, 2567-2574.	3.8	78
16	Synergistic catalytic effect of SrTiO3 and Ni on the hydrogen storage properties of MgH2. International Journal of Hydrogen Energy, 2018, 43, 6244-6255.	3.8	76
17	Significantly improved dehydrogenation of LiAlH4 catalysed with TiO2 nanopowder. International Journal of Hydrogen Energy, 2011, 36, 8327-8334.	3.8	75
18	Synthesis of BaFe12O19 by solid state method and its effect on hydrogen storage properties of MgH2. International Journal of Hydrogen Energy, 2018, 43, 20853-20860.	3.8	74

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19	An overview of reactive hydride composite (RHC) for solid-state hydrogen storage materials. International Journal of Hydrogen Energy, 2021, 46, 31674-31698.	3.8	74
20	Improvement of Hydrogen Storage Properties of MgH₂ Catalyzed by K₂NbF₇ and Multiwall Carbon Nanotube. Journal of Physical Chemistry C, 2018, 122, 11222-11233.	1.5	72
21	Improved hydrogen storage properties of MgH₂by addition of Co₂NiO nanoparticles. RSC Advances, 2015, 5, 60983-60989.	1.7	70
22	Catalytic effect of CeCl3 on the hydrogen storage properties of MgH2. Materials Chemistry and Physics, 2016, 170, 77-82.	2.0	70
23	Improved hydrogen storage properties of MgH 2 catalyzed with K 2 NiF 6. Journal of Energy Chemistry, 2016, 25, 832-839.	7.1	68
24	Improvement of hydrogen storage properties in MgH2 catalysed by K2NbF7. International Journal of Hydrogen Energy, 2018, 43, 14532-14540.	3.8	68
25	Recent advances in catalyst-enhanced LiAlH4 for solid-state hydrogen storage: A review. International Journal of Hydrogen Energy, 2021, 46, 9123-9141.	3.8	68
26	Modification of NaAlH4 properties using catalysts for solid-state hydrogen storage: A review. International Journal of Hydrogen Energy, 2021, 46, 766-782.	3.8	67
27	Effect of Na₃FeF₆ catalyst on the hydrogen storage properties of MgH₂. Dalton Transactions, 2016, 45, 7085-7093.	1.6	62
28	Enhanced hydrogen storage performance of LiAlH4â€“MgH2â€“TiF3 composite. International Journal of Hydrogen Energy, 2011, 36, 5369-5374.	3.8	58
29	Effect of adding different percentages of HfCl4 on the hydrogen storage properties of MgH2. International Journal of Hydrogen Energy, 2021, 46, 8621-8628.	3.8	58
30	Nanolayer-like-shaped MgFe₂O₄ synthesised via a simple hydrothermal method and its catalytic effect on the hydrogen storage properties of MgH₂. RSC Advances, 2018, 8, 15667-15674.	1.7	56
31	Influence of K2TiF6 additive on the hydrogen sorption properties of MgH2. International Journal of Hydrogen Energy, 2014, 39, 15563-15569.	3.8	55
32	Enhanced hydrogen storage properties of MgH₂ co-catalyzed with K₂NiF₆ and CNTs. Dalton Transactions, 2016, 45, 19380-19388.	1.6	55
33	Effect of different additives on the hydrogen storage properties of the MgH2-LiAlH4 destabilized system. RSC Advances, 2011, 1, 408.	1.7	53
34	Improved hydrogen storage performance of MgH2â€“NaAlH4 composite by addition of TiF3. International Journal of Hydrogen Energy, 2012, 37, 8395-8401.	3.8	52
35	Study on the hydrogen storage properties and reaction mechanism of NaAlH4â€“Mg(BH4)2 (2:1) with and without TiF3 additive. International Journal of Hydrogen Energy, 2015, 40, 7628-7635.	3.8	52
36	Study on the hydrogen storage properties and reaction mechanism of NaAlH4â€“MgH2â€“LiBH4 ternary-hydride system. International Journal of Hydrogen Energy, 2014, 39, 8340-8346.	3.8	47

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37	A study on the effects of K₂ZrF₆ as an additive on the microstructure and hydrogen storage properties of MgH₂. RSC Advances, 2015, 5, 9255-9260.	1.7	47
38	Effect of SrFe₁₂O₁₉ nanopowder on the hydrogen sorption properties of MgH₂. RSC Advances, 2016, 6, 110004-110010.	1.7	46
39	An investigation on the hydrogen storage properties and reaction mechanism of the destabilized MgH2â€“Na3AlH6 (4:1)Âsystem. International Journal of Hydrogen Energy, 2013, 38, 1478-1483.	3.8	45
40	Enhanced hydrogen storage properties of 4MgH2Â+ÂLiAlH4 composite system by doping with Fe2O3 nanopowder. International Journal of Hydrogen Energy, 2014, 39, 7834-7841.	3.8	45
41	Hydrogen storage properties of a destabilized MgH2Sn system with TiF3 addition. Journal of Alloys and Compounds, 2016, 678, 297-303.	2.8	44
42	Effect of K2TiF6 additive on the hydrogen storage properties of 4MgH2â€“LiAlH4 destabilized system. International Journal of Hydrogen Energy, 2015, 40, 7671-7677.	3.8	32
43	Catalytic effect of SrFe12O19 on the hydrogen storage properties of LiAlH4. International Journal of Hydrogen Energy, 2017, 42, 19126-19134.	3.8	32
44	Desorption properties of LiAlH4 doped with LaFeO3 catalyst. International Journal of Hydrogen Energy, 2019, 44, 11953-11960.	3.8	31
45	Improved hydrogen storage performances of <scp> LiAlH ₄ </scp> +â€‰Mg(<scp> BH) Tj ETQq1 1 0.784314 rgBT /Ove International Journal of Energy Research, 2021, 45, 2882-2898.	2.2	31
46	Study the effect of SrFe12O19 on MgH2/LiAlH4 composite for solid-state hydrogen storage. International Journal of Hydrogen Energy, 2017, 42, 29830-29839.	3.8	28
47	The hydrogen storage properties and reaction mechanism of the NaAlH4Â+ÂCa(BH4)2 composite system. International Journal of Hydrogen Energy, 2018, 43, 11132-11140.	3.8	27
48	Enhancement of dehydrogenation properties in LiAlH4 catalysed by BaFe12O19. Journal of Alloys and Compounds, 2020, 835, 155183.	2.8	26
49	Catalytic effects of MgFe2O4 addition on the dehydrogenation properties of LiAlH4. International Journal of Hydrogen Energy, 2019, 44, 28227-28234.	3.8	24
50	Understanding the dehydrogenation properties of MgH2 catalysed by Na3AlF6. International Journal of Hydrogen Energy, 2019, 44, 30583-30590.	3.8	23
51	Dehydrogenation Properties and Catalytic Mechanism of the K₂NiF₆-Doped NaAlH₄ System. ACS Omega, 2018, 3, 17100-17107.	1.6	22
52	The Hydrogen Storage Properties of Destabilized MgH2â€“AlH3 (2:1) System. Materials Today: Proceedings, 2016, 3, S80-S87.	0.9	21
53	Improved hydrogen storage properties of NaAlH4MgH2LiBH4 ternary-hydride system catalyzed by TiF3. International Journal of Hydrogen Energy, 2016, 41, 18107-18113.	3.8	21
54	Catalytic effect of SrTiO3 on the dehydrogenation properties of LiAlH4. Journal of Alloys and Compounds, 2021, 855, 157475.	2.8	21

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55	The hydrogen storage properties of Mg-Li-Al composite system catalyzed by K 2 ZrF 6. Journal of Physics and Chemistry of Solids, 2017, 104, 214-220.	1.9	19
56	A study on the hydrogen storage properties and reaction mechanism of Na3AlH6LiBH4 composite system. International Journal of Hydrogen Energy, 2018, 43, 8365-8374.	3.8	19
57	Functions of MgH2 in the Hydrogen Storage Properties of a Na3AlH6â€“LiBH4 Composite. Journal of Physical Chemistry C, 2018, 122, 23959-23967.	1.5	19
58	Catalytic effect of MgFe2O4 on the hydrogen storage properties of Na3AlH6â€“LiBH4 composite system. International Journal of Hydrogen Energy, 2018, 43, 20882-20891.	3.8	19
59	Influence of K2NbF7 Catalyst on the Desorption Behavior of LiAlH4. Frontiers in Chemistry, 2020, 8, 457.	1.8	19
60	Enhanced dehydrogenation performance of<scp>NaAlH₄</scp>by the addition of spherical<scp>SrTiO₃</scp>. International Journal of Energy Research, 2021, 45, 8648-8658.	2.2	19
61	Enhancement of hydrogen storage properties in 4MgH2 Na3AlH6 composite catalyzed by TiF3. International Journal of Hydrogen Energy, 2017, 42, 21096-21104.	3.8	18
62	Modifying the hydrogen storage performances of NaBH4 by catalyzing with MgFe2O4 synthesized via hydrothermal method. International Journal of Hydrogen Energy, 2019, 44, 6720-6727.	3.8	18
63	Effect of K2NbF7 on the hydrogen release behaviour of NaAlH4. Journal of Alloys and Compounds, 2021, 851, 156686.	2.8	18
64	Hydrogen storage properties of Mg-Li-Al composite system doped with Al2TiO5 catalyst for solid-state hydrogen storage. Journal of Alloys and Compounds, 2021, 870, 159469.	2.8	18
65	Intensive investigation on hydrogen storage properties and reaction mechanism of the NaBH4-Li3AlH6 destabilized system. International Journal of Hydrogen Energy, 2019, 44, 21965-21978.	3.8	17
66	Significant effect of TiF3 on the performance of 2NaAlH4+Ca(BH4)2 hydrogen storage properties. International Journal of Hydrogen Energy, 2019, 44, 21979-21987.	3.8	16
67	Enhanced the hydrogen storage properties and reaction mechanisms of <scp> 4MgH ₂ </scp> Â+â€‰ <scp> LiAlH ₄ </scp> composite system by addition with <scp> TiO ₂ </scp>. International Journal of Energy Research, 2021, 45, 21365-21374.	2.2	15
68	An Overview of the Recent Advances of Additive-Improved Mg(BH4)2 for Solid-State Hydrogen Storage Material. Energies, 2022, 15, 862.	1.6	13
69	Recent Advances on Mgâ€“Liâ€“Al Systems for Solid-State Hydrogen Storage: A Review. Frontiers in Energy Research, 2022, 10, .	1.2	13
70	Enhanced hydrogen storage performance of destabilized 4MgH2â€“Li3AlH6 system doped with Co2NiO nanopowder. International Journal of Hydrogen Energy, 2015, 40, 10131-10138.	3.8	12
71	Hydrogen storage properties of 4MgH2â€“Li3AlH6 composite improved by the addition of K2TiF6. International Journal of Hydrogen Energy, 2015, 40, 12713-12720.	3.8	12
72	Enhancing the dehydrogenation properties of LiAlH4 using K2NiF6 as additive. International Journal of Hydrogen Energy, 2022, 47, 24843-24851.	3.8	11

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73	Enhanced hydrogen storage properties of K2TiF6 doped Mg-Na-Al composite system. Materials Chemistry and Physics, 2018, 217, 350-356.	2.0	10
74	CoFe2O4 synthesized via a solvothermal method for improved dehydrogenation of NaAlH4. International Journal of Hydrogen Energy, 2022, 47, 41320-41328.	3.8	9
75	Catalytic effect of Al2TiO5 on the dehydrogenation properties of LiAlH4. International Journal of Hydrogen Energy, 2022, 47, 31903-31910.	3.8	9
76	Improved hydrogen storage properties of Mg-Li-Al-H composite system by milling with Fe2O3 powder. Advanced Powder Technology, 2017, 28, 2151-2158.	2.0	8
77	Study of the Hydrogen Storage Properties and Catalytic Mechanism of a MgH₂â€“Na₃AlH₆ System Incorporating FeCl₃. ACS Omega, 2021, 6, 18948-18956.	1.6	8
78	An investigation on the addition of<scp>SrTiO₃</scp>to the hydrogen storage properties of the<scp>4MgH₂â€Li₃AlH₆</scp>composite. International Journal of Energy Research, 2022, 46, 8030-8041.	2.2	8
79	The catalytic effect of an inert additive (SrTiO3) on the hydrogen storage properties of 4MgH2Na3AlH6. International Journal of Hydrogen Energy, 2018, 43, 20801-20810.	3.8	7
80	Magnetism and Thermomechanical Properties in Si Substituted MnCoGe Compounds. Crystals, 2021, 11, 694.	1.0	7
81	Study the Effect of NiF2 Additive on the Hydrogen Sorption Properties of 4MgH2+Li3AlH6 Destabilized System. Materials Today: Proceedings, 2016, 3, S96-S103.	0.9	6
82	Effects of TiF3 addition on the hydrogen storage properties of 4MgH2Â+ÂCd composite. International Journal of Hydrogen Energy, 2019, 44, 30574-30582.	3.8	5
83	Structure analysis using XRD refinement for replacement of copper (Cu) with manganese (Mn) in NdMn2Si2 compound. AIP Conference Proceedings, 2019, , .	0.3	4
84	Novel materials and technologies for hydrogen storage. , 2020, , 337-365.		4
85	Designing Nanoconfined LiBH4 for Solid-State Electrolytes. Frontiers in Chemistry, 2022, 10, 866959.	1.8	3
86	Designing lithium ion batteries for high power applications. , 0, , .		0
87	Structural Behaviour and Electrical Properties of a Ball Milled MnCoGe Compounds. Key Engineering Materials, 0, 908, 326-331.	0.4	0
88	The Effect of Annealing Temperatures on the Phase Transition and Structural Properties of MnCoGe Compound. Key Engineering Materials, 0, 908, 332-336.	0.4	0