

Mohammad Ismail

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82
papers

2,454
citations

35
h-index

47
g-index

88
ext. papers

3,092
ext. citations

5.7
avg, IF

6.27
L-index

#	Paper	IF	Citations
82	An Overview of the Recent Advances of Additive-Improved Mg(BH ₄) ₂ for Solid-State Hydrogen Storage Material. <i>Energies</i> , 2022 , 15, 862	3.1	1
81	Designing Nanoconfined LiBH for Solid-State Electrolytes.. <i>Frontiers in Chemistry</i> , 2022 , 10, 866959	5	1
80	Advanced hydrogen storage of the Mg-Na-Al system: A review. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 1111-1111	8.8	11
79	Magnetism and Thermomechanical Properties in Si Substituted MnCoGe Compounds. <i>Crystals</i> , 2021 , 11, 694	2.3	4
78	Improved hydrogen storage performances of LiAlH ₄ + Mg(BH ₄) ₂ composite with TiF ₃ addition. <i>International Journal of Energy Research</i> , 2021 , 45, 2882-2898	4.5	12
77	Catalytic effect of SrTiO ₃ on the dehydrogenation properties of LiAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157475	5.7	6
76	Effect of K ₂ NbF ₇ on the hydrogen release behaviour of NaAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156686	5.7	10
75	Modification of NaAlH ₄ properties using catalysts for solid-state hydrogen storage: A review. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 766-782	6.7	22
74	Enhanced dehydrogenation performance of NaAlH ₄ by the addition of spherical SrTiO ₃ . <i>International Journal of Energy Research</i> , 2021 , 45, 8648-8658	4.5	5
73	Recent advances in catalyst-enhanced LiAlH ₄ for solid-state hydrogen storage: A review. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 9123-9141	6.7	14
72	Effect of adding different percentages of HfCl ₄ on the hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8621-8628	6.7	17
71	Hydrogen storage properties of Mg-Li-Al composite system doped with Al ₂ TiO ₅ catalyst for solid-state hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159469	5.7	6
70	Study of the Hydrogen Storage Properties and Catalytic Mechanism of a MgH-NaAlH System Incorporating FeCl. <i>ACS Omega</i> , 2021 , 6, 18948-18956	3.9	1
69	Enhanced the hydrogen storage properties and reaction mechanisms of 4MgH ₂ -LiAlH ₄ composite system by addition with TiO ₂ . <i>International Journal of Energy Research</i> , 2021 , 45, 21365	4.5	2
68	An overview of reactive hydride composite (RHC) for solid-state hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 31674-31698	6.7	9
67	Influence of KNbF Catalyst on the Desorption Behavior of LiAlH. <i>Frontiers in Chemistry</i> , 2020 , 8, 457	5	11
66	The effect of K ₂ SiF ₆ on the MgH ₂ hydrogen storage properties. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 832-840	8.8	44

65	Enhancement of dehydrogenation properties in LiAlH ₄ catalysed by BaFe ₁₂ O ₁₉ . <i>Journal of Alloys and Compounds</i> , 2020 , 835, 155183	5.7	10
64	Novel materials and technologies for hydrogen storage 2020 , 337-365		
63	LaFeO ₃ synthesised by solid-state method for enhanced sorption properties of MgH ₂ . <i>Results in Physics</i> , 2020 , 16, 102844	3.7	44
62	Significant effect of TiF ₃ on the performance of 2NaAlH ₄ +Ca(BH ₄) ₂ hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21979-21987	6.7	8
61	Nanoflakes MgNiO ₂ synthesised via a simple hydrothermal method and its catalytic roles on the hydrogen sorption performance of MgH ₂ . <i>Journal of Alloys and Compounds</i> , 2019 , 796, 279-286	5.7	57
60	Desorption properties of LiAlH ₄ doped with LaFeO ₃ catalyst. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11953-11960	6.7	18
59	Structure analysis using XRD refinement for replacement of copper (Cu) with manganese (Mn) in NdMn ₂ Si ₂ compound 2019 ,		3
58	Effects of TiF ₃ addition on the hydrogen storage properties of 4MgH ₂ + Cd composite. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30574-30582	6.7	1
57	The hydrogen storage properties and catalytic mechanism of the CuFe ₂ O ₄ -doped MgH ₂ composite system. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 318-324	6.7	62
56	Intensive investigation on hydrogen storage properties and reaction mechanism of the NaBH ₄ -Li ₃ AlH ₆ destabilized system. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 21965-21978	6.7	9
55	Catalytic effects of MgFe ₂ O ₄ addition on the dehydrogenation properties of LiAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28227-28234	6.7	13
54	Modifying the hydrogen storage performances of NaBH ₄ by catalyzing with MgFe ₂ O ₄ synthesized via hydrothermal method. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 6720-6727	6.7	12
53	Catalytic effect of SrTiO ₃ on the hydrogen storage behaviour of MgH ₂ . <i>Journal of Energy Chemistry</i> , 2019 , 28, 46-53	12	70
52	Understanding the dehydrogenation properties of MgH ₂ catalysed by Na ₃ AlF ₆ . <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 30583-30590	6.7	15
51	A study on the hydrogen storage properties and reaction mechanism of Na ₃ AlH ₆ LiBH ₄ composite system. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 8365-8374	6.7	14
50	Nanolayer-like-shaped MgFeO synthesised a simple hydrothermal method and its catalytic effect on the hydrogen storage properties of MgH ₂ . <i>RSC Advances</i> , 2018 , 8, 15667-15674	3.7	41
49	Synergistic catalytic effect of SrTiO ₃ and Ni on the hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 6244-6255	6.7	62
48	Improvement of Hydrogen Storage Properties of MgH ₂ Catalyzed by K ₂ NbF ₇ and Multiwall Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11222-11233	3.8	58

47	Dehydrogenation Properties and Catalytic Mechanism of the KNiF-Doped NaAlH System. <i>ACS Omega</i> , 2018 , 3, 17100-17107	3.9	11
46	Functions of MgH ₂ in the Hydrogen Storage Properties of a Na ₃ AlH ₆ LiBH ₄ Composite. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23959-23967	3.8	13
45	The catalytic effect of an inert additive (SrTiO ₃) on the hydrogen storage properties of 4MgH ₂ Na ₃ AlH ₆ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20801-20810	6.7	4
44	Synthesis of BaFe ₁₂ O ₁₉ by solid state method and its effect on hydrogen storage properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20853-20860	6.7	51
43	Catalytic effect of MgFe ₂ O ₄ on the hydrogen storage properties of Na ₃ AlH ₆ LiBH ₄ composite system. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 20882-20891	6.7	12
42	The hydrogen storage properties and reaction mechanism of the NaAlH ₄ Ca(BH ₄) ₂ composite system. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11132-11140	6.7	20
41	Improvement of hydrogen storage properties in MgH ₂ catalysed by K ₂ NbF ₇ . <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14532-14540	6.7	49
40	Enhanced hydrogen storage properties of K ₂ TiF ₆ doped Mg-Na-Al composite system. <i>Materials Chemistry and Physics</i> , 2018 , 217, 350-356	4.4	5
39	The hydrogen storage properties of Mg-Li-Al composite system catalyzed by K ₂ ZrF ₆ . <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 104, 214-220	3.9	15
38	Improved hydrogen storage properties of Mg-Li-Al-H composite system by milling with Fe ₂ O ₃ powder. <i>Advanced Powder Technology</i> , 2017 , 28, 2151-2158	4.6	5
37	MnFe ₂ O ₄ nanopowder synthesised via a simple hydrothermal method for promoting hydrogen sorption from MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21114-21120	6.7	52
36	Enhancement of hydrogen storage properties in 4MgH ₂ Na ₃ AlH ₆ composite catalyzed by TiF ₃ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 21096-21104	6.7	13
35	Catalytic effect of SrFe ₁₂ O ₁₉ on the hydrogen storage properties of LiAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 19126-19134	6.7	18
34	Hydrogen sorption improvement of MgH ₂ catalyzed by CeO ₂ nanopowder. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2532-2538	5.7	81
33	Study the effect of SrFe ₁₂ O ₁₉ on MgH ₂ /LiAlH ₄ composite for solid-state hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29830-29839	6.7	21
32	Improved hydrogen storage properties of NaAlH ₄ MgH ₂ LiBH ₄ ternary-hydride system catalyzed by TiF ₃ . <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18107-18113	6.7	17
31	Effect of SrFe ₁₂ O ₁₉ nanopowder on the hydrogen sorption properties of MgH ₂ . <i>RSC Advances</i> , 2016 , 6, 110004-110010	3.7	39
30	Enhanced hydrogen storage properties of MgH co-catalyzed with KNiF and CNTs. <i>Dalton Transactions</i> , 2016 , 45, 19380-19388	4.3	47

29	Effect of Na ₃ FeF ₆ catalyst on the hydrogen storage properties of MgH ₂ . <i>Dalton Transactions</i> , 2016 , 45, 7085-93	4.3	55
28	Catalytic effect of CeCl ₃ on the hydrogen storage properties of MgH ₂ . <i>Materials Chemistry and Physics</i> , 2016 , 170, 77-82	4.4	59
27	The Hydrogen Storage Properties of Destabilized MgH ₂ /AlH ₃ (2:1) System. <i>Materials Today: Proceedings</i> , 2016 , 3, S80-S87	1.4	13
26	Hydrogen storage properties of a destabilized MgH ₂ /Sn system with TiF ₃ addition. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 297-303	5.7	38
25	Improved hydrogen storage properties of MgH ₂ catalyzed with K ₂ NiF ₆ . <i>Journal of Energy Chemistry</i> , 2016 , 25, 832-839	12	50
24	Study the Effect of NiF ₂ Additive on the Hydrogen Sorption Properties of 4MgH ₂ +Li ₃ AlH ₆ Destabilized System. <i>Materials Today: Proceedings</i> , 2016 , 3, S96-S103	1.4	3
23	Enhanced hydrogen storage performance of destabilized 4MgH ₂ /Li ₃ AlH ₆ system doped with Co ₂ NiO nanopowder. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 10131-10138	6.7	9
22	Study on the hydrogen storage properties and reaction mechanism of NaAlH ₄ /Mg(BH ₄) ₂ (2:1) with and without TiF ₃ additive. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7628-7635	6.7	44
21	Improved hydrogen storage properties of MgH ₂ by addition of Co ₂ NiO nanoparticles. <i>RSC Advances</i> , 2015 , 5, 60983-60989	3.7	57
20	Hydrogen storage properties of 4MgH ₂ /Li ₃ AlH ₆ composite improved by the addition of K ₂ TiF ₆ . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12713-12720	6.7	8
19	A study on the effects of K ₂ ZrF ₆ as an additive on the microstructure and hydrogen storage properties of MgH ₂ . <i>RSC Advances</i> , 2015 , 5, 9255-9260	3.7	37
18	Effect of LaCl ₃ addition on the hydrogen storage properties of MgH ₂ . <i>Energy</i> , 2015 , 79, 177-182	7.9	90
17	Effect of K ₂ TiF ₆ additive on the hydrogen storage properties of 4MgH ₂ /Li ₃ AlH ₆ destabilized system. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 7671-7677	6.7	24
16	Influence of different amounts of FeCl ₃ on decomposition and hydrogen sorption kinetics of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2567-2574	6.7	65
15	Influence of K ₂ TiF ₆ additive on the hydrogen sorption properties of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15563-15569	6.7	41
14	Improved Hydrogen Storage Properties of MgH ₂ Co-Doped with FeCl ₃ and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18878-18883	3.8	72
13	Enhanced hydrogen storage properties of 4MgH ₂ + LiAlH ₄ composite system by doping with Fe ₂ O ₃ nanopowder. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 7834-7841	6.7	35
12	Study on the hydrogen storage properties and reaction mechanism of NaAlH ₄ /MgH ₂ /LiBH ₄ ternary-hydride system. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8340-8346	6.7	39

11	An investigation on the hydrogen storage properties and reaction mechanism of the destabilized MgH ₂ -LiAlH ₄ (4:1) system. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1478-1483	6.7	42
10	Improved hydrogen storage performance of MgH ₂ -LiAlH ₄ composite by addition of TiF ₃ . <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 8395-8401	6.7	46
9	Effect of different additives on the hydrogen storage properties of the MgH ₂ -LiAlH ₄ destabilized system. <i>RSC Advances</i> , 2011 , 1, 408	3.7	49
8	Improved hydrogen desorption in lithium alanate by addition of SWCNT-metallic catalyst composite. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 3593-3599	6.7	68
7	Enhanced hydrogen storage performance of LiAlH ₄ -MgH ₂ -TiF ₃ composite. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 5369-5374	6.7	51
6	Significantly improved dehydrogenation of LiAlH ₄ catalysed with TiO ₂ nanopowder. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8327-8334	6.7	65
5	The hydrogen storage properties and reaction mechanism of the MgH ₂ -LiAlH ₄ composite system. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9045-9050	6.7	70
4	Effects of NbF ₅ addition on the hydrogen storage properties of LiAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 2361-2367	6.7	95
3	Effects of CNTs on the hydrogen storage properties of MgH ₂ and MgH ₂ -BCC composite. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 7821-7826	6.7	76
2	Structural Behaviour and Electrical Properties of a Ball Milled MnCoGe Compounds. <i>Key Engineering Materials</i> , 908, 326-331	0.4	
1	The Effect of Annealing Temperatures on the Phase Transition and Structural Properties of MnCoGe Compound. <i>Key Engineering Materials</i> , 908, 332-336	0.4	