

# Mohammad Ismail

## List of Publications by Citations

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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	Effects of NbF <sub>5</sub> addition on the hydrogen storage properties of LiAlH <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 2361-2367	6.7	95
81	Effect of LaCl <sub>3</sub> addition on the hydrogen storage properties of MgH <sub>2</sub> . <i>Energy</i> , <b>2015</b> , 79, 177-182	7.9	90
80	Hydrogen sorption improvement of MgH <sub>2</sub> catalyzed by CeO <sub>2</sub> nanopowder. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 2532-2538	5.7	81
79	Effects of CNTs on the hydrogen storage properties of MgH <sub>2</sub> and MgH <sub>2</sub> -BCC composite. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 7821-7826	6.7	76
78	Improved Hydrogen Storage Properties of MgH <sub>2</sub> Co-Doped with FeCl <sub>3</sub> and Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 18878-18883	3.8	72
77	The hydrogen storage properties and reaction mechanism of the MgH <sub>2</sub> / LiAlH <sub>4</sub> composite system. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 9045-9050	6.7	70
76	Catalytic effect of SrTiO <sub>3</sub> on the hydrogen storage behaviour of MgH <sub>2</sub> . <i>Journal of Energy Chemistry</i> , <b>2019</b> , 28, 46-53	12	70
75	Improved hydrogen desorption in lithium alanate by addition of SWCNT/metallic catalyst composite. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 3593-3599	6.7	68
74	Influence of different amounts of FeCl <sub>3</sub> on decomposition and hydrogen sorption kinetics of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 2567-2574	6.7	65
73	Significantly improved dehydrogenation of LiAlH <sub>4</sub> catalysed with TiO <sub>2</sub> nanopowder. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 8327-8334	6.7	65
72	Synergistic catalytic effect of SrTiO <sub>3</sub> and Ni on the hydrogen storage properties of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 6244-6255	6.7	62
71	The hydrogen storage properties and catalytic mechanism of the CuFe <sub>2</sub> O <sub>4</sub> -doped MgH <sub>2</sub> composite system. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 318-324	6.7	62
70	Catalytic effect of CeCl <sub>3</sub> on the hydrogen storage properties of MgH <sub>2</sub> . <i>Materials Chemistry and Physics</i> , <b>2016</b> , 170, 77-82	4.4	59
69	Improvement of Hydrogen Storage Properties of MgH <sub>2</sub> Catalyzed by K <sub>2</sub> NbF <sub>7</sub> and Multiwall Carbon Nanotube. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11222-11233	3.8	58
68	Nanoflakes MgNiO <sub>2</sub> synthesised via a simple hydrothermal method and its catalytic roles on the hydrogen sorption performance of MgH <sub>2</sub> . <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 796, 279-286	5.7	57
67	Improved hydrogen storage properties of MgH <sub>2</sub> by addition of Co <sub>2</sub> NiO nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 60983-60989	3.7	57
66	Effect of Na <sub>3</sub> FeF <sub>6</sub> catalyst on the hydrogen storage properties of MgH <sub>2</sub> . <i>Dalton Transactions</i> , <b>2016</b> , 45, 7085-93	4.3	55

65	MnFe <sub>2</sub> O <sub>4</sub> nanopowder synthesised via a simple hydrothermal method for promoting hydrogen sorption from MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 21114-21120	6.7	52
64	Enhanced hydrogen storage performance of LiAlH <sub>4</sub> /MgH <sub>2</sub> /TiF <sub>3</sub> composite. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 5369-5374	6.7	51
63	Synthesis of BaFe <sub>12</sub> O <sub>19</sub> by solid state method and its effect on hydrogen storage properties of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 20853-20860	6.7	51
62	Improved hydrogen storage properties of MgH <sub>2</sub> catalyzed with K <sub>2</sub> NiF <sub>6</sub> . <i>Journal of Energy Chemistry</i> , <b>2016</b> , 25, 832-839	12	50
61	Effect of different additives on the hydrogen storage properties of the MgH <sub>2</sub> -LiAlH <sub>4</sub> destabilized system. <i>RSC Advances</i> , <b>2011</b> , 1, 408	3.7	49
60	Improvement of hydrogen storage properties in MgH <sub>2</sub> catalysed by K <sub>2</sub> NbF <sub>7</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 14532-14540	6.7	49
59	Enhanced hydrogen storage properties of MgH co-catalyzed with KNiF and CNTs. <i>Dalton Transactions</i> , <b>2016</b> , 45, 19380-19388	4.3	47
58	Improved hydrogen storage performance of MgH <sub>2</sub> /NaAlH <sub>4</sub> composite by addition of TiF <sub>3</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 8395-8401	6.7	46
57	Study on the hydrogen storage properties and reaction mechanism of NaAlH <sub>4</sub> /Mg(BH <sub>4</sub> ) <sub>2</sub> (2:1) with and without TiF <sub>3</sub> additive. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 7628-7635	6.7	44
56	The effect of K <sub>2</sub> SiF <sub>6</sub> on the MgH <sub>2</sub> hydrogen storage properties. <i>Journal of Magnesium and Alloys</i> , <b>2020</b> , 8, 832-840	8.8	44
55	LaFeO <sub>3</sub> synthesised by solid-state method for enhanced sorption properties of MgH <sub>2</sub> . <i>Results in Physics</i> , <b>2020</b> , 16, 102844	3.7	44
54	An investigation on the hydrogen storage properties and reaction mechanism of the destabilized MgH <sub>2</sub> /Na <sub>3</sub> AlH <sub>6</sub> (4:1) system. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 1478-1483	6.7	42
53	Nanolayer-like-shaped MgFeO synthesised a simple hydrothermal method and its catalytic effect on the hydrogen storage properties of MgH <sub>2</sub> . <i>RSC Advances</i> , <b>2018</b> , 8, 15667-15674	3.7	41
52	Influence of K <sub>2</sub> TiF <sub>6</sub> additive on the hydrogen sorption properties of MgH <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 15563-15569	6.7	41
51	Effect of SrFe <sub>12</sub> O <sub>19</sub> nanopowder on the hydrogen sorption properties of MgH <sub>2</sub> . <i>RSC Advances</i> , <b>2016</b> , 6, 110004-110010	3.7	39
50	Study on the hydrogen storage properties and reaction mechanism of NaAlH <sub>4</sub> /MgH <sub>2</sub> /LiBH <sub>4</sub> ternary-hydride system. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 8340-8346	6.7	39
49	Hydrogen storage properties of a destabilized MgH <sub>2</sub> /Sn system with TiF <sub>3</sub> addition. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 678, 297-303	5.7	38
48	A study on the effects of K <sub>2</sub> ZrF <sub>6</sub> as an additive on the microstructure and hydrogen storage properties of MgH <sub>2</sub> . <i>RSC Advances</i> , <b>2015</b> , 5, 9255-9260	3.7	37

47	Enhanced hydrogen storage properties of $4\text{MgH}_2 + \text{LiAlH}_4$ composite system by doping with $\text{Fe}_2\text{O}_3$ nanopowder. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7834-7841	6.7	35
46	Effect of $\text{K}_2\text{TiF}_6$ additive on the hydrogen storage properties of $4\text{MgH}_2/\text{LiAlH}_4$ destabilized system. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 7671-7677	6.7	24
45	Modification of $\text{LiAlH}_4$ properties using catalysts for solid-state hydrogen storage: A review. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 766-782	6.7	22
44	Study the effect of $\text{SrFe}_2\text{O}_9$ on $\text{MgH}_2/\text{LiAlH}_4$ composite for solid-state hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 29830-29839	6.7	21
43	The hydrogen storage properties and reaction mechanism of the $\text{NaAlH}_4/\text{Ca}(\text{BH}_4)_2$ composite system. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 11132-11140	6.7	20
42	Desorption properties of $\text{LiAlH}_4$ doped with $\text{LaFeO}_3$ catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 11953-11960	6.7	18
41	Catalytic effect of $\text{SrFe}_2\text{O}_9$ on the hydrogen storage properties of $\text{LiAlH}_4$ . <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 19126-19134	6.7	18
40	Improved hydrogen storage properties of $\text{NaAlH}_4\text{MgH}_2\text{LiBH}_4$ ternary-hydride system catalyzed by $\text{TiF}_3$ . <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 18107-18113	6.7	17
39	Effect of adding different percentages of $\text{HfCl}_4$ on the hydrogen storage properties of $\text{MgH}_2$ . <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 8621-8628	6.7	17
38	The hydrogen storage properties of $\text{Mg-Li-Al}$ composite system catalyzed by $\text{K}_2\text{ZrF}_6$ . <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 104, 214-220	3.9	15
37	Understanding the dehydrogenation properties of $\text{MgH}_2$ catalysed by $\text{Na}_3\text{AlF}_6$ . <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 30583-30590	6.7	15
36	A study on the hydrogen storage properties and reaction mechanism of $\text{Na}_3\text{AlH}_6\text{LiBH}_4$ composite system. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8365-8374	6.7	14
35	Recent advances in catalyst-enhanced $\text{LiAlH}_4$ for solid-state hydrogen storage: A review. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 9123-9141	6.7	14
34	Catalytic effects of $\text{MgFe}_2\text{O}_4$ addition on the dehydrogenation properties of $\text{LiAlH}_4$ . <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 28227-28234	6.7	13
33	Enhancement of hydrogen storage properties in $4\text{MgH}_2/\text{Na}_3\text{AlH}_6$ composite catalyzed by $\text{TiF}_3$ . <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 21096-21104	6.7	13
32	The Hydrogen Storage Properties of Destabilized $\text{MgH}_2/\text{AlH}_3$ (2:1) System. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, S80-S87	1.4	13
31	Functions of $\text{MgH}_2$ in the Hydrogen Storage Properties of a $\text{Na}_3\text{AlH}_6/\text{LiBH}_4$ Composite. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23959-23967	3.8	13
30	Modifying the hydrogen storage performances of $\text{NaBH}_4$ by catalyzing with $\text{MgFe}_2\text{O}_4$ synthesized via hydrothermal method. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 6720-6727	6.7	12

29	Improved hydrogen storage performances of LiAlH <sub>4</sub> + Mg(BH <sub>4</sub> ) <sub>2</sub> composite with TiF <sub>3</sub> addition. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 2882-2898	4.5	12
28	Catalytic effect of MgFe <sub>2</sub> O <sub>4</sub> on the hydrogen storage properties of Na <sub>3</sub> AlH <sub>6</sub> ⊃iBH <sub>4</sub> composite system. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 20882-20891	6.7	12
27	Influence of KNbF Catalyst on the Desorption Behavior of LiAlH. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 457	5	11
26	Advanced hydrogen storage of the Mg⊃NaAl system: A review. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> , 9, 1111-1111	8.8	11
25	Dehydrogenation Properties and Catalytic Mechanism of the KNiF-Doped NaAlH System. <i>ACS Omega</i> , <b>2018</b> , 3, 17100-17107	3.9	11
24	Enhancement of dehydrogenation properties in LiAlH <sub>4</sub> catalysed by BaFe <sub>12</sub> O <sub>19</sub> . <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 835, 155183	5.7	10
23	Effect of K <sub>2</sub> NbF <sub>7</sub> on the hydrogen release behaviour of NaAlH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 851, 156686	5.7	10
22	Enhanced hydrogen storage performance of destabilized 4MgH <sub>2</sub> ⊃i3AlH <sub>6</sub> system doped with Co <sub>2</sub> NiO nanopowder. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 10131-10138	6.7	9
21	Intensive investigation on hydrogen storage properties and reaction mechanism of the NaBH <sub>4</sub> -Li <sub>3</sub> AlH <sub>6</sub> destabilized system. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 21965-21978	6.7	9
20	An overview of reactive hydride composite (RHC) for solid-state hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 31674-31698	6.7	9
19	Significant effect of TiF <sub>3</sub> on the performance of 2NaAlH <sub>4</sub> +Ca(BH <sub>4</sub> ) <sub>2</sub> hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 21979-21987	6.7	8
18	Hydrogen storage properties of 4MgH <sub>2</sub> ⊃i3AlH <sub>6</sub> composite improved by the addition of K <sub>2</sub> TiF <sub>6</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 12713-12720	6.7	8
17	Catalytic effect of SrTiO <sub>3</sub> on the dehydrogenation properties of LiAlH <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157475	5.7	6
16	Hydrogen storage properties of Mg-Li-Al composite system doped with Al <sub>2</sub> TiO <sub>5</sub> catalyst for solid-state hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 870, 159469	5.7	6
15	Improved hydrogen storage properties of Mg-Li-Al-H composite system by milling with Fe <sub>2</sub> O <sub>3</sub> powder. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 2151-2158	4.6	5
14	Enhanced dehydrogenation performance of NaAlH <sub>4</sub> by the addition of spherical SrTiO <sub>3</sub> . <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8648-8658	4.5	5
13	Enhanced hydrogen storage properties of K <sub>2</sub> TiF <sub>6</sub> doped Mg-Na-Al composite system. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 217, 350-356	4.4	5
12	Magnetism and Thermomechanical Properties in Si Substituted MnCoGe Compounds. <i>Crystals</i> , <b>2021</b> , 11, 694	2.3	4

11	The catalytic effect of an inert additive (SrTiO <sub>3</sub> ) on the hydrogen storage properties of 4MgH <sub>2</sub> Na <sub>3</sub> AlH <sub>6</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 20801-20810	6.7	4
10	Structure analysis using XRD refinement for replacement of copper (Cu) with manganese (Mn) in NdMn <sub>2</sub> Si <sub>2</sub> compound <b>2019</b> ,		3
9	Study the Effect of NiF <sub>2</sub> Additive on the Hydrogen Sorption Properties of 4MgH <sub>2</sub> +Li <sub>3</sub> AlH <sub>6</sub> Destabilized System. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, S96-S103	1.4	3
8	Enhanced the hydrogen storage properties and reaction mechanisms of 4MgH <sub>2</sub> + LiAlH <sub>4</sub> composite system by addition with TiO <sub>2</sub> . <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 21365	4.5	2
7	Effects of TiF <sub>3</sub> addition on the hydrogen storage properties of 4MgH <sub>2</sub> + Cd composite. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 30574-30582	6.7	1
6	An Overview of the Recent Advances of Additive-Improved Mg(BH <sub>4</sub> ) <sub>2</sub> For Solid-State Hydrogen Storage Material. <i>Energies</i> , <b>2022</b> , 15, 862	3.1	1
5	Study of the Hydrogen Storage Properties and Catalytic Mechanism of a MgH-NaAlH System Incorporating FeCl. <i>ACS Omega</i> , <b>2021</b> , 6, 18948-18956	3.9	1
4	Designing Nanoconfined LiBH for Solid-State Electrolytes.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 866959	5	1
3	Structural Behaviour and Electrical Properties of a Ball Milled MnCoGe Compounds. <i>Key Engineering Materials</i> ,908, 326-331	0.4	
2	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	
1	Novel materials and technologies for hydrogen storage <b>2020</b> , 337-365		