

Pukazhselvan D

List of Publications by Year in descending order

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50
papers

1,206
citations

361045

20
h-index

377514

34
g-index

50
all docs

50
docs citations

50
times ranked

1090
citing authors

#	ARTICLE	IF	CITATIONS
1	Anatase titania as magnesium host in Mg ion rechargeable battery with magnesium perchlorate/ethylmagnesium bromide electrolytes. <i>Journal of Materials Science</i> , 2022, 57, 8442-8454.	1.7	3
2	Active catalytic species generated in situ in zirconia incorporated hydrogen storage material magnesium hydride. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 786-796.	5.5	18
3	Interaction of zirconia with magnesium hydride and its influence on the hydrogen storage behavior of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21760-21771.	3.8	8
4	Elucidating Evidence for the In Situ Reduction of Graphene Oxide by Magnesium Hydride and the Consequence of Reduction on Hydrogen Storage. <i>Catalysts</i> , 2022, 12, 735.	1.6	6
5	Chemical transformation of additive phase in MgH ₂ /CeO ₂ hydrogen storage system and its effect on catalytic performance. <i>Applied Surface Science</i> , 2021, 561, 150062.	3.1	23
6	Electrochemical behaviour of magnesium hydride-added titania anode for Li-ion battery. <i>Electrochimica Acta</i> , 2021, 394, 139142.	2.6	5
7	Unravelling the Effects of Calcium Substitution in BaGd ₂ CoO ₅ Haldane Gap 1D Material and Its Thermoelectric Performance. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13017-13025.	1.5	2
8	Transformation of Metallic Ti to TiH ₂ Phase in the Ti/MgH ₂ Composite and Its Influence on the Hydrogen Storage Behavior of MgH ₂ . <i>ChemPhysChem</i> , 2020, 21, 1195-1201.	1.0	23
9	Nanostructured advanced materials for hydrogen storage. , 2020, , 97-163.		2
10	Metal Oxide Additives Incorporated Hydrogen Storage Systems: Formation of In Situ Catalysts and Mechanistic Understanding. <i>Environmental Chemistry for A Sustainable World</i> , 2019, , 215-245.	0.3	2
11	Increased performance by use of a mixed conducting buffer layer, terbium-doped ceria, for Nd ₂ NiO ₄ +SOFC/SOEC oxygen electrodes. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31466-31474.	3.8	14
12	Highly branched Pt Cu nanodandelion with high activity for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 174-179.	3.8	18
13	Chemically transformed additive phases in Mg ₂ TiO ₄ and MgTiO ₃ loaded hydrogen storage system MgH ₂ . <i>Applied Surface Science</i> , 2019, 472, 99-104.	3.1	29
14	Role of chemical interaction between MgH ₂ and TiO ₂ additive on the hydrogen storage behavior of MgH ₂ . <i>Applied Surface Science</i> , 2017, 420, 740-745.	3.1	49
15	Bias polarization study of steam electrolysis by composite oxygen electrode Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} /BaCe _{0.4} Zr _{0.4} Y _{0.2} O _{3-δ} . <i>Applied Surface Science</i> , 2017, 424, 82-86.	3.1	2
16	Unique dielectric features of a ceramic-semiconductor nanocomposite MgNb ₂ O ₆ + 0.25Zn _{0.5} Cd _{0.5} S. <i>Applied Surface Science</i> , 2017, 424, 127-131.	3.1	5
17	Evolution of reduced Ti containing phase(s) in MgH ₂ /TiO ₂ system and its effect on the hydrogen storage behavior of MgH ₂ . <i>Journal of Power Sources</i> , 2017, 362, 174-183.	4.0	83
18	Dehydrogenation Properties of Magnesium Hydride Loaded with Fe, Fe [~] C, and Fe [~] Mg Additives. <i>ChemPhysChem</i> , 2017, 18, 287-291.	1.0	16

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19	Conductivity recovery by redox cycling of yttrium doped barium zirconate proton conductors and exsolution of Ni-based sintering additives. <i>Journal of Power Sources</i> , 2017, 339, 93-102.	4.0	30
20	Two step mechanochemical synthesis of Nb doped MgO rock salt nanoparticles and its application for hydrogen storage in MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11716-11722.	3.8	15
21	Crystal structure, phase stoichiometry and chemical environment of Mg _x Nb _y O _{x+y} nanoparticles and their impact on hydrogen storage in MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11709-11715.	3.8	26
22	Interaction of magnesium hydride clusters with Nb doped MgO additive studied by density functional calculations. <i>RSC Advances</i> , 2016, 6, 61200-61206.	1.7	4
23	A detailed study of hydrostatic press, sintering aids and temperature on the densification behavior of Ba(Zr,Y)O ₃ d electrolyte. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 11510-11519.	3.8	9
24	Formation of Mg _x Nb _y O _{x+y} rock salt structures in a series of mechanochemically activated MgH ₂ +nNb ₂ O ₅ (n=0.083-1.50) mixtures. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 2677-2688.	3.8	31
25	Formation of Mg _x Nb _y O _{x+y} through the Mechanochemical Reaction of MgH ₂ and Nb ₂ O ₅ , and Its Effect on the Hydrogen Storage Behavior of MgH ₂ . <i>ChemPhysChem</i> , 2016, 17, 178-183.	1.0	28
26	Simulation studies and safety analysis of high pressure milling vials for the direct synthesis of high capacity metal hydrides. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5006-5012.	3.8	6
27	One step high pressure mechanochemical synthesis of reversible alanates NaAlH ₄ and KAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 4916-4924.	3.8	13
28	Structural, optical and electrical characterization of Mn ²⁺ and Cd ²⁺ doped/co-doped PbS nanocrystals. <i>Journal of Alloys and Compounds</i> , 2015, 627, 69-77.	2.8	34
29	Hydrogen storage characteristics of magnesium impregnated on the porous channels of activated charcoal scaffold. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 20045-20053.	3.8	41
30	Synthesis of catalytically active rock salt structured Mg _x Nb _{1-x} O nanoparticles for MgH ₂ system. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18984-18988.	3.8	15
31	Hydrogen absorption/desorption characteristics of room temperature ZrMn _{2-x} Ni _x system (x =) Tj ETQq1 1 0.784314 rgBT ₃ /Overlo	0.8	0
32	Effect of Ni concentration on the structural and hydrogen storage characteristics of Zr-Mn based laves phase system. <i>Materials for Renewable and Sustainable Energy</i> , 2013, 2, 1.	1.5	6
33	Hydrogen Sorption Characteristics of Zr-Mn-Ni-Fe Alloys. <i>Advanced Science, Engineering and Medicine</i> , 2013, 5, 796-800.	0.3	0
34	Studies on the synthesis of cubic ZnS quantum dots, capping and optical-electrical characteristics. <i>Journal of Alloys and Compounds</i> , 2012, 517, 139-148.	2.8	53
35	High capacity hydrogen storage: Basic aspects, new developments and milestones. <i>Nano Energy</i> , 2012, 1, 566-589.	8.2	203
36	Carbon nanostructures as catalyst for improving the hydrogen storage behavior of sodium aluminum hydride. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2750-2755.	3.8	24

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37	Direct synthesis of sodium alanate using mischmetal nanocatalyst. International Journal of Hydrogen Energy, 2012, 37, 3697-3704.	3.8	16
38	Effect of crystallite size of Al on the reversible hydrogen storage of NaAlH ₄ and few aspects of catalysts and catalysis. International Journal of Hydrogen Energy, 2012, 37, 9696-9705.	3.8	15
39	Hydrogen Storage Characteristics of M _m Ni _{1-x} Al _x (M = Cu, Ti) Tj ETQp 1 0.784314 rg	0.1	1
40	Towards Sustainable Green Energy Development and Insights on Few Scientific Problems Leading to Less Carbon Economy. Reviews in Advanced Sciences and Engineering, 2012, 1, 302-318.	0.6	12
41	Investigation on the synthesis and quantum confinement effects of pure and Mn ²⁺ added Zn(1-x)Cd _x S nanocrystals. Journal of Alloys and Compounds, 2011, 509, 4065-4072.	2.8	25
42	STUDIES ON TiO ₂ NANOPARTICLES AS CATALYST FOR ENHANCED DESORPTION CHARACTERISTICS OF NaAlH ₄ . International Journal of Nanoscience, 2011, 10, 717-721.	0.4	3
43	Studies on the synthesis and characterization of Zn _{1-x} Cd _x S and Zn _{1-x} Cd _x S:Mn ²⁺ semiconductor quantum dots. Philosophical Magazine, 2011, 91, 389-403.	0.7	19
44	Studies on metal oxide nanoparticles catalyzed sodium aluminum hydride. Energy, 2010, 35, 5037-5042.	4.5	50
45	Effects of helical GNF on improving the dehydrogenation behavior of LiMg(AlH ₄) ₃ and LiAlH ₄ . International Journal of Hydrogen Energy, 2010, 35, 2083-2090.	3.8	28
46	Hydrogen energy in changing environmental scenario: Indian context. International Journal of Hydrogen Energy, 2009, 34, 7358-7367.	3.8	45
47	Investigations on the desorption kinetics of M _m -doped NaAlH ₄ . Journal of Alloys and Compounds, 2007, 439, 243-248.	2.8	41
48	Hydrogen energy in Indian context and R&D efforts at Banaras Hindu University. International Journal of Environmental Studies, 2007, 64, 761-776.	0.7	9
49	Studies on synthesis and dehydrogenation behavior of magnesium alanate and magnesium-sodium alanate mixture. International Journal of Hydrogen Energy, 2007, 32, 4933-4938.	3.8	29
50	Investigations on hydrogen storage behavior of CNT doped NaAlH ₄ . Journal of Alloys and Compounds, 2005, 403, 312-317.	2.8	64