

Pratibha Sharma

List of Publications by Year in descending order

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43
papers

1,011
citations

430754

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43
all docs

43
docs citations

43
times ranked

928
citing authors

#	ARTICLE	IF	CITATIONS
1	Parametric and sensitivity analysis of metal hydride hydrogen storage systems for development of novel design charts. Energy Storage, 2022, 4, .	2.3	1
2	Studies on 10kg alloy mass metal hydride based reactor for hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 5495-5506.	3.8	49
3	Regeneration of Supported Ammonia Borane to Achieve Higher Yield. ChemistrySelect, 2021, 6, 1276-1282.	0.7	5
4	Modeling and numerical simulation of an industrial scale metal hydride reactor based on <sc>CFD–taguchi</sc> combined method. Energy Storage, 2021, 3, e227.	2.3	9
5	Experimental analysis of a metal hydride hydrogen storage system with hexagonal honeycomb-based heat transfer enhancements-part B. International Journal of Hydrogen Energy, 2021, 46, 13131-13141.	3.8	24
6	Microstructure and first hydrogenation properties of TiFe alloy with Zr and Mn as additives. International Journal of Hydrogen Energy, 2020, 45, 787-797.	3.8	56
7	Modeling and numerical simulation of a 5kg LaNi5-based hydrogen storage reactor with internal conical fins. International Journal of Hydrogen Energy, 2020, 45, 8794-8809.	3.8	66
8	Effect of cooling rate on the microstructure and hydrogen storage properties of TiFe with 4 wt% Zr as an additive. Journal of Materials Research and Technology, 2019, 8, 5623-5630.	2.6	28
9	Kinetics of borazine formation from ammonia borane dehydrocoupling reaction through Ab initio analysis. International Journal of Hydrogen Energy, 2019, 44, 22022-22031.	3.8	9
10	Effect of annealing on microstructure and hydrogenation properties of TiFe+Xwt% Zr (X=4, 8). International Journal of Hydrogen Energy, 2018, 43, 6238-6243.	3.8	35
11	Effect of addition of Zr, Ni, and Zr-Ni alloy on the hydrogen absorption of Body Centred Cubic 52Ti-12V-36Cr alloy. International Journal of Hydrogen Energy, 2018, 43, 7424-7429.	3.8	23
12	D-M-D Plasmonic Anti-Reflector for Next-Generation Thin c-Si Solar Cell Applications. Plasmonics, 2018, 13, 705-714.	1.8	2
13	Rapid microwave-assisted solvothermal synthesis of Cu ₂ ZnSnS ₄ (CZTS) nanocrystals for low-cost thin film photovoltaic: investigation of synthesis parameters and morphology control. Journal of Materials Science: Materials in Electronics, 2018, 29, 3370-3380.	1.1	9
14	An <i>in situ</i> study on the solid state decomposition of ammonia borane: unmitigated by-product suppression by a naturally abundant layered clay mineral. Inorganic Chemistry Frontiers, 2018, 5, 301-309.	3.0	14
15	Kinetic model analysis and mechanistic correlation of ammonia borane thermolysis under dynamic heating conditions. International Journal of Hydrogen Energy, 2018, 43, 10386-10395.	3.8	14
16	Design of a large-scale metal hydride based hydrogen storage reactor: Simulation and heat transfer optimization. International Journal of Hydrogen Energy, 2018, 43, 13356-13372.	3.8	45
17	Effect of doping and particle size on hydrogen absorption properties of BCC solid solution 52Ti-12V-36Cr. International Journal of Hydrogen Energy, 2017, 42, 11523-11527.	3.8	24
18	Heat transfer techniques in metal hydride hydrogen storage: A review. International Journal of Hydrogen Energy, 2017, 42, 30661-30682.	3.8	130

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19	Reaction pathway for synthesis of Cu ₂ ZnSn(S/Se) ₄ via mechano-chemical route and annealing studies. Journal of Materials Science: Materials in Electronics, 2017, 28, 1199-1210.	1.1	18
20	Investigating the effect of cobalt loading on thermal conductivity and hydrogen storage capacity of hollow glass microspheres (HGMs). Materials Today: Proceedings, 2017, 4, 11608-11616.	0.9	10
21	Microwave-assisted solvothermal synthesis of Cu ₂ ZnSnS ₄ (CZTS) nanocrystals for photovoltaic applications. Materials Today: Proceedings, 2016, 3, 2786-2794.	0.9	10
22	Synthesis and characterization of kesterite Cu ₂ ZnSnTe ₄ via ball-milling of elemental powder precursors. RSC Advances, 2016, 6, 68754-68759.	1.7	19
23	Opto-Electrical Performance Improvement of Mono c-Si Solar Cells Using Dielectric-Metal-Dielectric (D-M-D) Sandwiched Structure-Based Plasmonic Anti-Reflector. Plasmonics, 2016, 11, 323-336.	1.8	8
24	Effect of Ni-alloys on thermal decomposition of ammonia borane. Journal of Alloys and Compounds, 2015, 645, S234-S238.	2.8	14
25	Fabrication of zinc-loaded hollow glass microspheres (HGMs) for hydrogen storage. International Journal of Energy Research, 2015, 39, 717-726.	2.2	8
26	Synthesis and characterization of bulk Cu ₂ ZnSnX ₄ (X: S, Se) via thermodynamically supported mechano-chemical process. Materials Characterization, 2015, 103, 42-49.	1.9	29
27	Efficient hydrogen generation from sodium borohydride hydrolysis using silica sulfuric acid catalyst. Journal of Power Sources, 2015, 275, 727-733.	4.0	53
28	Preparation and characterization of hollow glass microspheres (HGMs) for hydrogen storage using urea as a blowing agent. Microelectronic Engineering, 2014, 126, 65-70.	1.1	28
29	Hollow glass microspheres as potential adjunct with orthopaedic metal implants. Microelectronic Engineering, 2014, 126, 103-106.	1.1	10
30	Broadband Reflection Minimization Using Silver Ultra Thin Film Sandwiched Between Silicon Nitride Layers for c-Si Solar Cell Application. Plasmonics, 2014, 9, 1409-1416.	1.8	9
31	Parametric optimisation of core-shell ZnS:Mn/ZnS nanoparticles prepared by ultrasound-controlled wet chemical route. Journal of Luminescence, 2014, 145, 669-675.	1.5	9
32	Single junction a-Si:H solar cell with a-Si:H/nc-Si:H/a-Si:H quantum wells. Thin Solid Films, 2014, 550, 643-648.	0.8	4
33	Effect of Co ²⁺ /BH ₄ ⁻ ratio in the synthesis of Co-B catalysts on sodium borohydride hydrolysis. International Journal of Hydrogen Energy, 2014, 39, 406-413.	3.8	46
34	Magnesium and iron loaded hollow glass microspheres (HGMs) for hydrogen storage. International Journal of Hydrogen Energy, 2014, 39, 16451-16458.	3.8	23
35	Effect of Co loading on the hydrogen storage characteristics of hollow glass microspheres (HGMs). International Journal of Hydrogen Energy, 2014, 39, 3304-3312.	3.8	17
36	Bioglass Based Nano-Materials for Bone Tissue Engineering. Advanced Science Letters, 2014, 20, 1129-1134.	0.2	0

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37	Kinetic Analysis and Modeling of Thermal Decomposition of Ammonia Borane. International Journal of Chemical Kinetics, 2013, 45, 452-461.	1.0	16
38	Effect of zeolites on thermal decomposition of ammonia borane. International Journal of Hydrogen Energy, 2012, 37, 3712-3718.	3.8	29
39	Investigation of hydrogen storage behavior of silicon nanoparticles. International Journal of Hydrogen Energy, 2012, 37, 3741-3747.	3.8	61
40	Study of kinetics and thermal decomposition of ammonia borane in presence of silicon nanoparticles. International Journal of Hydrogen Energy, 2012, 37, 6741-6748.	3.8	34
41	Activation energy of obliquely deposited $MmNi_{4.5}Al_{0.5}$ and $MmNi_{4.5}Al_{0.5}H_x$ thin films. International Journal of Hydrogen Energy, 2008, 33, 408-412.	3.8	3
42	Preparation of Hollow Glass Microspheres (HGMs) from Amber Coloured and Borosilicate Glass Frits. Advanced Materials Research, 0, 678, 37-41.	0.3	9
43	Synthesis of Mg_2Ni using stoichiometric and superstoichiometric compositions for hydrogen storage applications. Energy Storage, 0, , e262.	2.3	1