Rohit R Shahi

List of Publications by Year
in descending order

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37 papers	1,068 citations	430754 18 h-index	414303 32 g-index
41 all docs	41 docs citations	41 times ranked	687 citing authors

#	Article	IF	Citations
1	Studies on de/rehydrogenation characteristics ofÂnanocrystalline MgH2 co-catalyzed with Ti, FeÂand Ni. International Journal of Hydrogen Energy, 2013, 38, 2778-2784.	3.8	109
2	Studies on dehydrogenation characteristic of Mg(NH2)2/LiH mixture admixed with vanadium and vanadium based catalysts (V, V2O5 and VCl3). International Journal of Hydrogen Energy, 2010, 35, 238-246.	3.8	68
3	MgH 2 â€“ZrFe 2 H x nanocomposites for improved hydrogen storage characteristics of MgH 2. International Journal of Hydrogen Energy, 2015, 40, 11506-11513.	3.8	62
4	Phase evolution and magnetic characteristics of TiFeNiCr and TiFeNiCrM (M = Mn, Co) high entropy alloys. Journal of Magnetism and Magnetic Materials, 2017, 442, 218-223.	1.0	57
5	A Comprehensive Review: Recent Progress on Magnetic High Entropy Alloys and Oxides. Journal of Magnetism and Magnetic Materials, 2022, 554, 169142.	1.0	55
6	Effects of mechanical milling on desorption kinetics and phase transformation of LiNH2/MgH2 mixture. International Journal of Hydrogen Energy, 2008, 33, 6188-6194.	3.8	51
7			

#	Article	IF	Citations
19	Design and development of Co35Cr5Fe20â^'xNi20+xTi20 High Entropy Alloy with excellent magnetic softness. Journal of Alloys and Compounds, 2021, 889, 161773.	2.8	20
20	Formation of quasicrystalline phase in Al_{70â^'x}Ga_xPd₁₇Mn₁₃ alloys. Philosophical Magazine, 2011, 91, 2474-2481.	0.7	17
21	Novel Co35Cr5Fe20Ni20Ti20 high entropy alloy for high magnetization and low coercivity. Journal of Magnetism and Magnetic Materials, 2019, 484, 83-87.	1.0	17
22	Improved hydrogen storage performance of Mg(NH2)2/LiH mixture by addition of carbon nanostructured materials. International Journal of Hydrogen Energy, 2013, 38, 8863-8871.	3.8	16
23	Influence of electrodeposition modes on the electrochemical performance of MnO2 films prepared using anionic MnO4â^' (Mn7+) precursor. Ceramics International, 2018, 44, 5710-5718.	2.3	16
24	Synthesis, characterizations, and magnetic properties of FeCoNiTi-based high-entropy alloys. Emergent Materials, 2020, 3, 655-662.	3.2	16
25	Perspectives of high entropy alloys as hydrogen storage materials. International Journal of Hydrogen Energy, 2023, 48, 21412-21428.	3.8	16
26	Enhanced hydrogenation characteristics of Li-Mg-N-H system catalyzed with TiO2 nanoparticles; a mechanistic approach. International Journal of Hydrogen Energy, 2017, 42, 29350-29359.	3.8	15
27	Studies on the de/re-hydrogenation characteristics of nanocrystalline MgH2 admixed with carbon nanofibres. Applied Nanoscience (Switzerland), 2012, 2, 195-201.	1.6	13
28	Hydrogenation of (Zr69.5Al7.5Cu12Ni11)100â^'xTix quasicrystalline alloys and its effect on their structural and microhardness behavior. Journal of Non-Crystalline Solids, 2013, 380, 11-16.	1.5	10
29	Hydrogen Energy in India: Storage to Application. Proceedings of the Indian National Science Academy, 2015, 81, .	0.5	10
30	Synthesis of quasicrystalline film of Alâ€“Gaâ€“Pdâ€“Mn alloy. Thin Solid Films, 2013, 534, 265-269.	0.8	8
31	Magnetic Characteristics of High Entropy Alloys. , 0, , .		8
32	Synthesis, characterization and hydrogen sorption studies of mixed sodiumâ€potassium alanate. Crystal Research and Technology, 2013, 48, 520-531.	0.6	7
33	Effect of Annealing on Phase formation and their Correlation with Magnetic Characteristics of TiFeNiCrCo HEA. Materials Today: Proceedings, 2019, 18, 1422-1429.	0.9	7
34	Synthesis characterization and hydrogenation behaviour of as quenched Ti_{41.5+X}Zr_{41.5-X}Ni₁₇ (x=0, 3.5, 11.5 and 13.5) nano quasicrystalline ribbons. Journal of Physics: Conference Series, 2017, 809, 012011.	0.3	4
35	Effect of Ti addition on the hydrogen storage properties of nanoquasicrystal-glass composites in (Zr69.5Al7.5Cu12Ni11)100â^'xTixalloys. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C622-C622.	0.3	0
36	Hydrogen storage characteristics of melt spun Ti45Zr38Ni17nano-quasicrystalline alloys. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C416-C417.	0.3	0

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37	Co-Catalytic Effect of Carbon Based Nanostructures and TiO₂ on Sorption Behavior of Nanocrystalline MgH₂. Advanced Science Letters, 2014, 20, 1120-1123.	0.2	0