Sankara Sarma V Tatiparti

List of Publications by Year
in descending order

36 papers	491 citations	758635 12 h-index	713013 21 g-index
36 all docs	36 docs citations	36 times ranked	483 citing authors

#	Article	IF	Citations
1	Modeling and numerical simulation of a 5Âkg LaNi5-based hydrogen storage reactor with internal conical fins. International Journal of Hydrogen Energy, 2020, 45, 8794-8809.	3.8	66
2	Tensionâ€“compression asymmetry in an extruded Mg alloy AM30: Temperature and strain rate effects. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 572, 8-18.	2.6	49
3	Mgâ€“C Interaction Induced Hydrogen Uptake and Enhanced Hydrogen Release Kinetics in MgH₂-rGO Nanocomposites. Journal of Physical Chemistry C, 2018, 122, 22389-22396.	1.5	40
4	Nano-structured palladium impregnate graphitic carbon nitride composite for efficient hydrogen gasÂsensing. International Journal of Hydrogen Energy, 2020, 45, 10623-10636.	3.8	36
5	Synthesis, characterization and photocatalytic activity evaluation of TiO2 â€“ ZnO nanocomposites: Elucidating effect of varying Ti:Zn molar ratio. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 565, 47-58.	2.3	34
6	Electrodeposition of Alâ€“Mg Alloy Powders. Journal of the Electrochemical Society, 2008, 155, D363.	1.3	27
7	Electrode and symmetric supercapacitor device performance of boronâ€incorporated reduced graphene oxide synthesized by electrochemical exfoliation. Energy Storage, 2020, 2, e134.	2.3	21
8	Potentiostatic versus galvanostatic electrodeposition of nanocrystalline Alâ€“Mg alloy powders. Journal of Solid State Electrochemistry, 2012, 16, 1255-1262.	1.2	15
9	Strategies for scaling-up LaNi5-based hydrogen storage system with internal conical fins and cooling tubes. International Journal of Hydrogen Energy, 2021, 46, 19031-19045.	3.8	15
10	The Formation of Morphologies and Microstructures in Electrodeposited Nanocrystalline Alâ€“Mg Alloy Powders. Journal of the Electrochemical Society, 2010, 157, E167.	1.3	14
11	The dehydrogenation mechanism during the incubation period in nanocrystalline MgH₂. Physical Chemistry Chemical Physics, 2017, 19, 6677-6687.	1.3	14
12	Electrochemical Behavior of Cobalt Oxide/Boron-Incorporated Reduced Graphene Oxide Nanocomposite Electrode for Supercapacitor Applications. Journal of Materials Engineering and Performance, 2020, 29, 6535-6549.	1.2	14
13	Contributions of multiple phenomena towards hydrogenation: A case of Mg. International Journal of Hydrogen Energy, 2015, 40, 13518-13529.	3.8	13
14	An understanding of the electrodeposition process of Alâ€“Mg alloys using an organometallic-based electrolyte. Journal of Applied Electrochemistry, 2010, 40, 2091-2098.	1.5	11
15	Annealing response of AA5182 deformed in plane strain and equibiaxial strain paths. Philosophical Magazine, 2013, 93, 2613-2629.	0.7	11
16	Selective Removal of Photocatalytically Active Anatase TiO₂ Phase from Mixedâ€Phase TiO₂â€ZnO Nanocomposites: Impact on Physicochemical Properties and Photocatalytic Activity. Energy and Environmental Materials, 2020, 3, 548-559.	7.3	11
17	Transition from interfacial to diffusional growth during hydrogenation of Mg. Materials Letters, 2015, 161, 271-274.	1.3	10
18	Boron from net charge acceptor to donor and its effect on hydrogen uptake by novel Mg-B-electrochemically synthesized reduced graphene oxide. Scientific Reports, 2021, 11, 10995.	1.6	10

#	Article	IF	Citations
19	Effect of calcination temperature on the microstructure and electronic properties of TiO2â€“ZnO nanocomposites and implications on photocatalytic activity. Applied Nanoscience (Switzerland), 2018, 8, 915-930.	1.6	8
20	Hydrogen Sorption Mechanism of Magnesium (Hydride). Materials Today: Proceedings, 2018, 5, 23235-23241.	0.9	8
21	Instantaneous-Progressive nucleation and growth of palladium during electrodeposition. Results in Surfaces and Interfaces, 2022, 6, 100044.	1.0	8
22	Synergetic effect of C and Ni on hydrogen release from Mgâ€“Ni-electrochemically synthesized reduced graphene oxide based hydride. Sustainable Energy and Fuels, 2021, 5, 4414-4424.	2.5	7
23	Preferred orientation and shape of electrodeposited nanocrystalline Alâ€“Mg alloy dendrites. Materials Letters, 2011, 65, 1915-1918.	1.3	6
24	Internal structure of the electrodeposited nanocrystalline Alâ€“Mg alloy dendrites. Materials Letters, 2011, 65, 2413-2415.	1.3	6
25	Evolution of Morphology and Microstructure in Electrodeposited Nanocrystalline Alâ€“Mg Alloy Dendrites. Metals, 2011, 1, 3-15.	1.0	5
26	Substrate effect on electrodeposited nanocrystalline Alâ€“Mg alloy powders. Materials Letters, 2011, 65, 1859-1861.	1.3	5
27	On the parameters of Johnson-Mehl-Avrami-Kolmogorov equation for the hydride growth mechanisms: A case of MgH2. Journal of Alloys and Compounds, 2018, 742, 1002-1005.	2.8	5
28	Stoichiometryâ€“grain size-specific capacitance interrelationships in nickel oxide. RSC Advances, 2022, 12, 8333-8344.	1.7	5
29	Extended solubility in the electrodeposited nanocrystalline Alâ€“Mg alloy dendrites. Materials Letters, 2011, 65, 3173-3175.	1.3	4
30	Banded structure of the electrodeposited nanocrystalline Alâ€“Mg alloy dendrites. Materials Letters, 2011, 65, 3262-3264.	1.3	4
31	Nanostructure stabilization in electrodeposited Alâ€“Mg dendrites. Journal of Alloys and Compounds, 2017, 694, 632-635.	2.8	4
32	Anomalous Alâ€“Mg Electrodeposition Using an Organometallic-Based Electrolyte. Journal of the Electrochemical Society, 2016, 163, D722-D727.	1.3	2
33	Influence of surface condition on the current densities rendering nucleation loop during cyclic voltammetry for electrodeposition of Pd thin films. Surfaces and Interfaces, 2020, 20, 100525.	1.5	2
34	Synthesis, structural and morphological property of a novel Pd/g-CN nano composite for gas sensing application. IOP Conference Series: Materials Science and Engineering, 2019, 499, 012003.	0.3	1
35	Effect of Mg shell on MgH2 dehydrogenation by morphological and mathematical analysis. Nanomaterials and Energy, 2019, 8, 186-195.	0.1	0
36	On the Nucleation Loop in Cyclic Voltammetry for Electrodeposition of Pd Thin Films. ECS Meeting Abstracts, 2020, MA2020-01, 1189-1189.	0.0	0