

Hossein Abdizadeh

List of Publications by Year in descending order

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47
papers

581
citations

686830

13
h-index

676716

22
g-index

48
all docs

48
docs citations

48
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron carbide reinforced aluminium matrix composite: Physical, mechanical characterization and mathematical modelling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 658, 135-149.	2.6	126
2	Triple Layer Heterojunction WO ₃ /BiVO ₄ /BiFeO ₃ Porous Photoanode for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 6428-6439.	2.5	57
3	Immobilization of Alcohol Dehydrogenase on Titania Nanoparticles To Enhance Enzyme Stability and Remove Substrate Inhibition in the Reaction of Formaldehyde to Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9844-9854.	1.8	35
4	Microstructural and mechanical properties of nanometric magnesium oxide particulate-reinforced aluminum matrix composites produced by powder metallurgy method. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 367-372.	0.7	32
5	Structural, electrical, and optical properties of sol-gel-derived zirconium-doped barium titanate thin films on transparent conductive substrates. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 141-150.	1.1	25
6	Ferro-photocatalytic Enhancement of Photoelectrochemical Water Splitting Using the WO ₃ /BiFeO ₃ Heterojunction. <i>Energy & Fuels</i> , 2021, 35, 9623-9634.	2.5	21
7	Dimethyl Sulfoxide Vapor-Assisted Cs ₂ AgBiBr ₆ Homogenous Film Deposition for Solar Cell Application. <i>ACS Applied Energy Materials</i> , 2021, 4, 6797-6805.	2.5	20
8	Electrophoretic Deposition of CuIn _{1-x} Ga _x Se ₂ Thin Films Using Solvothermal Synthesized Nanoparticles for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23250-23258.	1.5	19
9	Evaluation of four coals for blast furnace pulverized coal injection. <i>Journal of Iron and Steel Research International</i> , 2010, 17, 8-12.	1.4	17
10	All solution processable graded CIGS solar cells fabricated using electrophoretic deposition. <i>RSC Advances</i> , 2016, 6, 11903-11910.	1.7	17
11	Hybrid 1D/2D Carbon Nanostructure-Incorporated Titania Photoanodes for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 6195-6204.	2.5	17
12	Controlling the extremely preferred orientation texturing of sol-gel derived ZnO thin films with sol and heat treatment parameters. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 28-35.	1.1	16
13	Properties of activated MgH ₂ +mischmetal nanostructured composite produced by ball-milling. <i>Materials for Renewable and Sustainable Energy</i> , 2018, 7, 1.	1.5	14
14	Investigation into the Mechanical Properties and Fracture Behavior of A356 Aluminum Alloy-Based ZrO ₂ -Particle-Reinforced Metal-Matrix Composites. <i>Mechanics of Composite Materials</i> , 2013, 49, 571-576.	0.9	13
15	Optimized Parameters for Enhanced Properties in Al ₄ C Composite. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 4475-4485.	1.7	12
16	Fabrication of TiB ₂ nanoparticulates-reinforced aluminum matrix composites by powder metallurgy route. <i>Journal of Composite Materials</i> , 2015, 49, 3115-3125.	1.2	11
17	Sol-gel synthesis of PZT thin films on FTO glass substrates for electro-optic devices. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 623-632.	1.1	10
18	High performance Ni-CNTs catalyst: synthesis and characterization. <i>RSC Advances</i> , 2016, 6, 47072-47082.	1.7	9

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19	Synthesizing Nanostructured Ni ₇₅ Mg _{16.66} Y _{8.34} (at%) Powder by Solid State Reaction and Mechanical Milling. <i>Materials and Manufacturing Processes</i> , 2012, 27, 1300-1305.	2.7	8
20	Hierarchical porous ZnO films synthesized by sol-gel method using triethylenetetramine stabilizer. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	8
21	Size-controlled synthesis of CuO-ZrO ₂ nanoparticles prepared through reverse micelle method. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 263-271.	1.1	7
22	A different chemical route to prepare hafnium diboride-based nanofibers: Effect of chemical composition. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 2123-2136.	1.1	7
23	STUDY OF MECHANICAL PROPERTIES AND FRACTURE MODE OF ALUMINA-SILICON CARBIDE NANOCOMPOSITES. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 551-558.	0.7	6
24	The synergistic effect of catalysts on hydrogen desorption properties of MgH ₂ -TiO ₂ -NiO nanocomposite. <i>Materials for Renewable and Sustainable Energy</i> , 2016, 5, 1.	1.5	6
25	Fabrication of Nb-doped lead zirconate titanate thick films synthesized by sol-gel dip coating method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5654-5664.	1.1	6
26	A hetero-homogeneous investigation of chemical bath deposited Ga-doped ZnO nanorods. <i>AIP Conference Proceedings</i> , 2018, . .	0.3	6
27	Effects of hafnium and boron on antibacterial and mechanical properties of polyvinylpyrrolidone-based nanofibrous composites. <i>Polymer Bulletin</i> , 2022, 79, 5885-5899.	1.7	6
28	Solvent Engineering for Controlled Crystallization and Growth of All-Inorganic Pb-Free Rudorffite Absorbers of Perovskite Solar Cells. <i>Inorganic Chemistry</i> , 2021, 60, 11110-11119.	1.9	6
29	DENSIFICATION AND MECHANICAL PROPERTIES OF TiB ₂ -SiC NANOCOMPOSITE WITH SILICON CARBAID AS A SINTERING AID. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 598-606.	0.7	5
30	Optimization of the Sol-gel Chemical Route for Fabrication of Densely Packed NiFe ₂ O ₄ Nanowires in the AAO Template. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 2047-2052.	0.8	5
31	SYNTHESIS OF NANO-SIZE MgO POWDER BY CHEMICAL DEPOSITION OF LOW COST RAW MATERIALS. <i>International Journal of Modern Physics B</i> , 2008, 22, 3185-3192.	1.0	4
32	Influence of talc additive on cold strength and reducibility of iron ore sinters compared to bentonite. <i>Ironmaking and Steelmaking</i> , 2009, 36, 273-278.	1.1	4
33	Growth of ZnO films in sol-gel electrophoretic deposition by different solvents. <i>AIP Conference Proceedings</i> , 2018, . .	0.3	4
34	Development of a triple-cation Ruddlesden-Popper perovskite structure with various morphologies for solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2766-2776.	1.1	4
35	EFFECTS OF PROCESSING TEMPERATURE AND FABRICATION METHOD ON MICROSTRUCTURE AND DENSITY OF MULTILAYER AL ₂ O ₃ -ZRO ₂ NANOCOMPOSITES. <i>International Journal of Modern Physics B</i> , 2008, 22, 3254-3260.	1.0	3
36	EFFECTS OF CALCINATIONS TEMPERATURE ON THE STRUCTURE OF CuO-ZrO ₂ NANOPARTICLES. <i>International Journal of Modern Physics B</i> , 2008, 22, 3201-3209.	1.0	3

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37	Synthesizing nanostructured crack-free thick films of Fe-doped lead zirconate titanate by sol-gel dip coating method. Journal of Sol-Gel Science and Technology, 2017, 81, 814-823.	1.1	3
38	STRUCTURAL AND MORPHOLOGY OF NANOPOWDERS COPPER-STABILIZED ZIRCONIA. Surface Review and Letters, 2009, 16, 569-577.	0.5	2
39	EFFECT OF MgO NANO PARTICLES ON SINTERING BEHAVIOR OF Al ₂ O ₃ -SiC-MgO NANO COMPOSITES. International Journal of Modern Physics Conference Series, 2012, 05, 568-573.	0.7	2
40	An investigation into the role of polyethyleneimine in chemical bath deposition of zinc oxide nanowires. AIP Conference Proceedings, 2018, , .	0.3	2
41	Effect of incorporation of hafnium diboride nanofibers on thermomechanical properties of carbon fiber-phenolic composites. Journal of the American Ceramic Society, 0, , .	1.9	2
42	INFLUENCE OF B ₄ C TO TTIP MOLAR RATIO ON SYNTHESIS OF NANO TITANIUM DIBORIDE POWDERS VIA SOL-GEL METHOD. International Journal of Modern Physics Conference Series, 2012, 05, 219-226.	0.7	1
43	EFFECT OF REVERSE MICELLE WATER POOL IN SYNTHESIS OF ZIRCONIA STABILIZED COPPER NANOCOMPOSITE. International Journal of Modern Physics Conference Series, 2012, 05, 559-567.	0.7	0
44	Optimized Sol-gel Chemical Route Using Vacuum Suction for Fabrication of Densely Packed NiFe ₂ O ₄ Nanowires. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2743-2748.	0.8	0
45	Synthesis and characterization of copper oxide nanopowders produced via chemical method. , 2013, , .		0
46	Electrophoretic deposition of Cu ₂ ZnSn(S _{0.5} Se _{0.5}) ₄ films using solvothermal synthesized nanoparticles. AIP Conference Proceedings, 2018, , .	0.3	0
47	Layered Ruddlesden-Popper Perovskites with Various Thicknesses for Stable Solid-State Solar Cells. Physics of the Solid State, 2020, 62, 529-541.	0.2	0