

Mohammad Reza Golobostanfard

List of Publications by Year in descending order

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64
papers

1,097
citations

394421

19
h-index

454955

30
g-index

65
all docs

65
docs citations

65
times ranked

1271
citing authors

#	ARTICLE	IF	CITATIONS
1	Sol-gel derived Al and Ga co-doped ZnO thin films: An optoelectronic study. Applied Surface Science, 2014, 290, 252-259.	6.1	111
2	Flexible freestanding sandwich type ZnO/rGO/ZnO electrode for wearable supercapacitor. Applied Surface Science, 2017, 419, 277-285.	6.1	57
3	Triple Layer Heterojunction WO ₃ /BiVO ₄ /BiFeO ₃ Porous Photoanode for Efficient Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2019, 2, 6428-6439.	5.1	57
4	Enhanced photoelectrochemical water splitting in hierarchical porous ZnO/Reduced graphene oxide nanocomposite synthesized by sol-gel method. International Journal of Hydrogen Energy, 2018, 43, 7754-7763.	7.1	54
5	Formation of urchin-like ZnO nanostructures by sol-gel electrophoretic deposition for photocatalytic application. Journal of Alloys and Compounds, 2017, 725, 291-301.	5.5	38
6	Controlling the morphology and properties of solvothermal synthesized Cu ₂ ZnSnS ₄ nanoparticles by solvent type. Journal of Alloys and Compounds, 2015, 642, 124-130.	5.5	33
7	Hierarchical porous titania/carbon nanotube nanocomposite photoanode synthesized by controlled phase separation for dye sensitized solar cell. Solar Energy Materials and Solar Cells, 2014, 120, 295-302.	6.2	32
8	Ag and Cu doped ZnO nanowires: A pH-Controlled synthesis via chemical bath deposition. Materialia, 2019, 5, 100212.	2.7	30
9	Flexible supercapacitor electrodes based on TiO ₂ /rGO/TiO ₂ sandwich type hybrids. Ceramics International, 2018, 44, 4132-4141.	4.8	28
10	Effects of acid catalyst type on structural, morphological, and optoelectrical properties of spin-coated TiO ₂ thin film. Physica B: Condensed Matter, 2013, 413, 40-46.	2.7	26
11	Opto-electronic properties of molybdenum doped indium tin oxide nanostructured thin films prepared via sol-gel spin coating. Ceramics International, 2013, 39, 6953-6961.	4.8	26
12	Effect of mixed solvent on structural, morphological, and optoelectrical properties of spin-coated TiO ₂ thin films. Ceramics International, 2012, 38, 5843-5851.	4.8	25
13	Hierarchical sol-gel derived porous titania/carbon nanotube films prepared by controlled phase separation. Microporous and Mesoporous Materials, 2014, 183, 74-80.	4.4	25
14	Solution processable wurtzite CuInS ₂ inverted type solar cell. Solar Energy Materials and Solar Cells, 2017, 164, 1-6.	6.2	25
15	Structural, electrical, and optical properties of sol-gel-derived zirconium-doped barium titanate thin films on transparent conductive substrates. Journal of Sol-Gel Science and Technology, 2018, 86, 141-150.	2.4	25
16	Synthesis and characterization of thick PZT films via sol-gel dip coating method. Applied Surface Science, 2014, 314, 711-719.	6.1	23
17	Tandem structured quantum dot/rod sensitized solar cell based on solvothermal synthesized CdSe quantum dots and rods. Journal of Power Sources, 2014, 256, 102-109.	7.8	22
18	Hierarchical ZnO nanoflowers and urchin-like shapes synthesized via sol-gel electrophoretic deposition with enhanced photocatalytic performance. Materials Chemistry and Physics, 2018, 220, 118-127.	4.0	22

#	ARTICLE	IF	CITATIONS
19	Elpasolite structures based on A_2AgBiX_6 (A: MA, Cs, X: I, Br): Application in double perovskite solar cells. <i>Materials Science in Semiconductor Processing</i> , 2021, 125, 105639.	4.0	22
20	Ferro-photocatalytic Enhancement of Photoelectrochemical Water Splitting Using the $WO_3/BiFeO_3$ Heterojunction. <i>Energy & Fuels</i> , 2021, 35, 9623-9634.	5.1	21
21	A close correlation between nucleation sites, growth and final properties of ZnO nanorod arrays: Sol-gel assisted chemical bath deposition process. <i>Ceramics International</i> , 2016, 42, 14721-14729.	4.8	20
22	Dimethyl Sulfoxide Vapor-Assisted $Cs_2AgBiBr_6$ Homogenous Film Deposition for Solar Cell Application. <i>ACS Applied Energy Materials</i> , 2021, 4, 6797-6805.	5.1	20
23	Influence of carbon nanotube wall thickness on performance of dye sensitized solar cell with hierarchical porous photoanode. <i>Microporous and Mesoporous Materials</i> , 2014, 191, 74-81.	4.4	19
24	Electrophoretic Deposition of $CuIn_{1-x}Ga_xSe_2$ Thin Films Using Solvothermal Synthesized Nanoparticles for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23250-23258.	3.1	19
25	Effect of niobium doping on opto-electronic properties of sol-gel based nanostructured indium tin oxide thin films. <i>Ceramics International</i> , 2013, 39, 4391-4398.	4.8	18
26	Carbon nanotube/indium tin oxide hybrid transparent conductive film: Effect of nanotube diameter. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 418-424.	6.2	17
27	All solution processable graded CIGS solar cells fabricated using electrophoretic deposition. <i>RSC Advances</i> , 2016, 6, 11903-11910.	3.6	17
28	Hybrid 1D/2D Carbon Nanostructure-Incorporated Titania Photoanodes for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 6195-6204.	5.1	17
29	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.	2.4	16
30	Effects of process parameters on the synthesis and characterization of $CuIn_{1-x}Ga_xSe_2$ nanopowders produced by new modified solvothermal method. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1397-1404.	4.0	15
31	Comparing the electrophoretic deposition process of graphene oxides synthesized through different methods. <i>Thin Solid Films</i> , 2017, 631, 118-123.	1.8	15
32	Sol-electrophoretic deposition of TiO_2 nanoparticle/nanorod array for photoanode of dye-sensitized solar cell. <i>Materials Chemistry and Physics</i> , 2021, 258, 123893.	4.0	15
33	Electrophoretic behavior of solvothermal synthesized anion replaced $Cu_2ZnSn(S_xSe_{1-x})_4$ films for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11990-12001.	7.1	13
34	Hierarchical porous Ga doped ZnO films synthesized by sol-electrophoretic deposition. <i>Ceramics International</i> , 2020, 46, 12665-12674.	4.8	13
35	Incorporating Carbon Nanotubes in Sol-Gel Synthesized Indium Tin Oxide Transparent Conductive Films. <i>Langmuir</i> , 2014, 30, 11785-11791.	3.5	10
36	Comparing incorporation of carbon nanotubes in hierarchical porous photoanodes of quantum dot and dye sensitized solar cells. <i>Ceramics International</i> , 2015, 41, 497-504.	4.8	10

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37	Sol-gel synthesis of PZT thin films on FTO glass substrates for electro-optic devices. Journal of Sol-Gel Science and Technology, 2020, 93, 623-632.	2.4	10
38	Synthesis and Characterization of Indium Niobium Oxide Thin Films via Sol-gel Spin Coating Method. Journal of Materials Science and Technology, 2013, 29, 923-928.	10.7	9
39	Incorporation of carbon nanotubes in a hierarchical porous photoanode of tandem quantum dot sensitized solar cells. Nanotechnology, 2014, 25, 345402.	2.6	9
40	Hierarchical porous photoanode based on acid boric catalyzed sol for dye sensitized solar cells. Applied Surface Science, 2017, 394, 37-46.	6.1	9
41	Effects of Calcination Parameters on the Microstructure and Morphology of PZT Nanoparticles Prepared by Modified Sol-gel Method. Advanced Materials Research, 0, 576, 326-329.	0.3	8
42	Biom mineralization behavior of electrophoretic-deposited hydroxyapatite-tricalcium phosphate biphasic composite. Applied Surface Science, 2018, 458, 988-995.	6.1	8
43	Hierarchical porous ZnO films synthesized by sol-gel method using triethylenetetramine stabilizer. SN Applied Sciences, 2019, 1, 1.	2.9	8
44	Controlling the performance of one-dimensional homojunction UV detectors based on ZnO nanoneedles array. Sensors and Actuators A: Physical, 2021, 331, 112916.	4.1	7
45	Boosting the Graded Structure of 2D Perovskite Solar Cell Based on $\text{BA}_2\text{MAn} \cdot 1\text{PbnI}_{3n+1}$ by Noninteger n Values. ACS Applied Energy Materials, 2021, 4, 394-403.	5.1	7
46	Fabrication of Nb-doped lead zirconate titanate thick films synthesized by sol-gel dip coating method. Journal of Materials Science: Materials in Electronics, 2016, 27, 5654-5664.	2.2	6
47	A hetero-homogeneous investigation of chemical bath deposited Ga-doped ZnO nanorods. AIP Conference Proceedings, 2018, , .	0.4	6
48	Solvent Engineering for Controlled Crystallization and Growth of All-Inorganic Pb-Free Rudorffite Absorbers of Perovskite Solar Cells. Inorganic Chemistry, 2021, 60, 11110-11119.	4.0	6
49	Comparing the planar and porous Nb-doped TiO ₂ photoanode of triple cation perovskite solar cells. Materials Science in Semiconductor Processing, 2022, 138, 106259.	4.0	6
50	Hierarchical mesoporous SnO ₂ /BiVO ₄ photoanode decorated with Ag nanorods for efficient photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2022, 47, 18992-19004.	7.1	6
51	Low Temperature Synthesis of Barium Titanate Powder by a Modified Sol-Gel Method. Advanced Materials Research, 2013, 829, 727-731.	0.3	5
52	An Investigation of Solvent Effect on Rhombohedral/Monoclinic/Tetragonal Phase Properties of $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ Nanoparticles Prepared via Sol-Gel Method. Advanced Materials Research, 2013, 829, 698-702.	0.3	4
53	Growth of ZnO films in sol-gel electrophoretic deposition by different solvents. AIP Conference Proceedings, 2018, , .	0.4	4
54	Optical properties of multi-stacked BaTiO ₃ /SrTiO ₃ thin films synthesized via chemical method. Ceramics International, 2021, 47, 17895-17906.	4.8	4

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55	Sulfides as a new class of stable cost-effective materials compared to organic/inorganic hole transport materials for perovskite solar cells. <i>Ceramics International</i> , 2022, , .	4.8	4
56	Influence of Al nitrate and Al chloride doping sources on structural and optical properties of sol-gel derived Al:ZnO nanoparticles. <i>Micro and Nano Letters</i> , 2012, 7, 572.	1.3	3
57	Synthesizing nanostructured crack-free thick films of Fe-doped lead zirconate titanate by sol-gel dip coating method. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 814-823.	2.4	3
58	Influence of process parameters on synthesis of hierarchical porous titania photoanode prepared by controlled phase separation for dye sensitized solar cell. <i>Ceramics International</i> , 2014, 40, 9311-9318.	4.8	2
59	An investigation into the role of polyethyleneimine in chemical bath deposition of zinc oxide nanowires. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
60	Piezoelectric: Multi-stacked hard/soft Pb(Ti,Zr)O ₃ films deposited through wet chemical method. <i>Materials Chemistry and Physics</i> , 2021, 267, 124637.	4.0	2
61	Structural, Optical and Electrical Characterization of Mo Doped In ₂ O ₃ Thin Films Prepared via Sol-Gel Spin Coating Technique. <i>Advanced Materials Research</i> , 0, 576, 607-610.	0.3	1
62	Solvothermal Synthesis of CuInSe ₂ Nanostructured Powders: Comparing Open-Air with Applying Internal Imposed Pressure. <i>Advanced Materials Research</i> , 0, 829, 912-916.	0.3	1
63	Recent development in MOFs for perovskite-based solar cells. , 2022, , 507-534.		1
64	Electrophoretic deposition of Cu ₂ ZnSn(S _{0.5} Se _{0.5}) ₄ films using solvothermal synthesized nanoparticles. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0