

Sunirmal Jana

List of Publications by Year in descending order

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66
papers

1,347
citations

361413

20
h-index

377865

34
g-index

66
all docs

66
docs citations

66
times ranked

1750
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of superhydrophobic coating from biowaste and natural wax. <i>Materials Today: Proceedings</i> , 2022, 52, 1422-1428.	1.8	5
2	Green synthesis of hierarchically structured Ag@Cu ₂ O on cotton fabric with sustained antimicrobial activity and on-demand oil-water separation ability. <i>Cellulose</i> , 2022, 29, 4703-4724.	4.9	3
3	Graphene Nanocomposite-Based Nanoproducts. , 2022, , 373-400.		0
4	Graphene-Based Nanocomposites. , 2021, , 987-1012.		0
5	Fabrication and multifunctional properties of marigold-like nanostructured Ni(OH) ₂ coated cotton fabric. <i>Cellulose</i> , 2021, 28, 1731-1752.	4.9	5
6	Graphene Nanocomposite Based Nanoproducts. , 2021, , 1-28.		0
7	Hierarchical Nanoporous BiVO ₄ Photoanodes with High Charge Separation and Transport Efficiency for Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14291-14301.	8.0	22
8	Antimicrobial activity study of Ag-ZnO nanoflowers synthesised from neem extract and application in cotton textiles. <i>International Journal of Nanotechnology</i> , 2021, 18, 531.	0.2	6
9	Green Synthesis of Hierarchically Structured Metal and Metal Oxide Nanomaterials. <i>Advances in Science, Technology and Innovation</i> , 2021, , 91-113.	0.4	3
10	Nano gold coated hierarchically porous zinc titanium oxide sol-gel based thin film: fabrication and photoelectrochemical activity. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 141-153.	2.4	5
11	Facile fabrication of fluorine free zirconium zinc stearate based superhydrophobic and superoleophilic coating on cotton fabric with superior antibacterial property. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 127-140.	2.4	16
12	Fabrication and photoelectrochemical activity of hierarchically Porous TiO ₂ -ZnO heterojunction film. <i>Journal of Materials Science</i> , 2020, 55, 11907-11918.	3.7	14
13	Hierarchically structured alpha-nickel hydroxide based superhydrophobic and antibacterial coating on cellulosic materials for oil-water separation. <i>Materials Chemistry and Physics</i> , 2020, 249, 123030.	4.0	23
14	Nanomaterials Based Superhydrophobic and Antimicrobial Coatings. <i>NanoWorld Journal</i> , 2020, 06, .	0.1	14
15	Graphene-Based Nanocomposites. , 2020, , 1-26.		0
16	Role of Oxygen Defects on Photoelectrochemical Activity of ZnO Nanorods Grown on Transparent Conducting Oxide Thin Film. <i>General Chemistry</i> , 2020, 6, 190025-190025.	0.6	1
17	Nanoheterostructures of ZnO Nanorods Decorated with ZnFe ₂ O ₄ Nanoparticles by a Simple Solution Process. <i>Current Nanomaterials</i> , 2019, 4, 63-67.	0.4	4
18	Polyaniline coated graphene hybridized SnO ₂ nanocomposite: Low temperature solution synthesis, structural property and room temperature ammonia gas sensing. <i>Journal of Alloys and Compounds</i> , 2018, 744, 260-270.	5.5	49

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19	One pot low temperature synthesis of graphene coupled Gd-doped ZnFe ₂ O ₄ nanocomposite for effective removal of antibiotic levofloxacin drug. Journal of Sol-Gel Science and Technology, 2018, 86, 599-609.	2.4	15
20	Effect of bovine serum albumin immobilized Au@ZnO-graphene nanocomposite on human ovarian cancer cell. Journal of Alloys and Compounds, 2018, 734, 66-74.	5.5	22
21	Nano gold-coated surface patterned mesoporous titanium tin oxide sol-gel thin film: fabrication, optical and photoelectrochemical properties. Journal of Sol-Gel Science and Technology, 2018, 88, 359-370.	2.4	3
22	Anti-biofilm activity and food packaging application of room temperature solution process based polyethylene glycol capped Ag-ZnO-graphene nanocomposite. Materials Science and Engineering C, 2018, 91, 743-753.	7.3	75
23	Hierarchically Structured Macro with Nested Mesoporous Zinc Indium Oxide Conducting Film. ACS Applied Materials & Interfaces, 2017, 9, 4420-4424.	8.0	13
24	Soft chemical synthesis, characterization and interaction of ZnO graphene nanocomposite with bovine serum albumin protein. Journal of Molecular Liquids, 2017, 237, 113-119.	4.9	24
25	Fabrication, structural evaluation, optical and photoelectrochemical properties of soft lithography based 1D/2D surface patterned indium titanium oxide sol-gel thin film. Surface and Coatings Technology, 2017, 328, 410-419.	4.8	11
26	Protein adsorption capability of zinc ferrite nanoparticles formed by a low-temperature solution-based process. Research on Chemical Intermediates, 2017, 43, 7041-7053.	2.7	6
27	Design, fabrication and characterisation of silica-titania thin film coated over coupled long period fibre gratings: Towards bio-sensing applications. Sensors and Actuators B: Chemical, 2017, 253, 418-427.	7.8	39
28	Low temperature synthesis of graphene hybridized surface defective hierarchical core-shell structured ZnO hollow microspheres with long-term stable and enhanced photoelectrochemical activity. RSC Advances, 2016, 6, 36058-36068.	3.6	20
29	ZnO-graphene-polyaniline nanoflowers: solution synthesis, formation mechanism and electrochemical activity. RSC Advances, 2016, 6, 40854-40857.	3.6	16
30	Polyaniline hybridized surface defective ZnO nanorods with long-term stable photoelectrochemical activity. Applied Surface Science, 2016, 383, 165-176.	6.1	84
31	Fabrication, characterization and water wetting behavior of mesoscale 1D/2D periodic structured silica-zirconia sol-gel thin films. RSC Advances, 2016, 6, 46048-46059.	3.6	8
32	Synthesis, characterization and antibacterial activity of Ag incorporated ZnO-graphene nanocomposites. RSC Advances, 2016, 6, 88751-88761.	3.6	47
33	Structural and light coupling characteristics of patterned silica-titania sol-gel thin films with/without nano gold coatings. RSC Advances, 2016, 6, 109218-109233.	3.6	11
34	Hierarchically structured ZnO-graphene hollow microspheres towards effective reusable adsorbent for organic pollutant via photodegradation process. Journal of Alloys and Compounds, 2016, 669, 177-186.	5.5	49
35	Synthesis, characterization and cytotoxicity of polyethylene glycol coupled zinc oxide-chemically converted graphene nanocomposite on human OAW42 ovarian cancer cells. Polymers for Advanced Technologies, 2016, 27, 436-443.	3.2	16
36	Cobalt Incorporated Pyramidal Shaped <math>Fe_2O_3</math> Nanoparticles from Poly-vinyl Alcohol Based Precursor. Advances in Nanoparticles, 2016, 05, 9-17.		

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37	Solâ€“Gel-Based Titaniaâ€“Silica Thin Film Overlay for Long Period Fiber Grating-Based Biosensors. <i>Analytical Chemistry</i> , 2015, 87, 12024-12031.	6.5	102
38	Nanomechanical properties of dip coated indium tin oxide films on glass. <i>Thin Solid Films</i> , 2015, 579, 21-29.	1.8	15
39	Low-temperature surfactant-free synthesis of tin oxide-reduced graphene oxide nanocomposites and their textural property-dependent lithium storage characteristics. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 76, 402-413.	2.4	9
40	Solâ€“gel based simonkolleite nanopetals with SnO ₂ nanoparticles in graphite-like amorphous carbon as an efficient and reusable photocatalyst. <i>RSC Advances</i> , 2015, 5, 75062-75074.	3.6	15
41	Influence of Al doping on microstructural, optical and photocatalytic properties of solâ€“gel based nanostructured zinc oxide films on glass. <i>RSC Advances</i> , 2014, 4, 11552-11563.	3.6	77
42	Development of a cost effective surface-patterned transparent conductive coating as top-contact of light emitting diodes. <i>Journal of Applied Physics</i> , 2014, 115, 193108.	2.5	10
43	Synthesis, characterization and cytotoxicity of europium incorporated ZnOâ€“graphene nanocomposites on human MCF7 breast cancer cells. <i>RSC Advances</i> , 2014, 4, 37479-37490.	3.6	49
44	Sponge-Like Tin Doped Indium Oxide (ITO) from Organicâ€“Inorganic Composite Novel Precursor Foam. <i>Science of Advanced Materials</i> , 2014, 6, 252-262.	0.7	6
45	Effect of precursor sol pH on microstructural, optical and photocatalytic properties of vacuum annealed zinc tin oxide thin films on glass. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 67, 8-17.	2.4	8
46	Dependence of precursor composition on patterning and morphology of solâ€“gel soft lithography based zinc zirconium oxide thin films. <i>Applied Surface Science</i> , 2013, 273, 39-48.	6.1	11
47	Solâ€“gel foam based Cr(III)â€“Sn(IV) doped indium oxide: characterizations of morphological, structural and magnetic properties. <i>RSC Advances</i> , 2013, 3, 12164.	3.6	4
48	Creation of Self-Organized Complex Meso Patterns in Solâ€“Gel Thin Films by Confined Capillary Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9546-9553.	3.7	16
49	Experimental study of perfectly patterned silica-titania optical waveguide. <i>Photonic Sensors</i> , 2012, 2, 81-91.	5.0	11
50	Nano silver coated patterned silica thin film by solâ€“gel based soft lithography technique. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 577-584.	2.4	12
51	Effect of boron doping on optical properties of solâ€“gel based nanostructured zinc oxide films on glass. <i>Materials Research Bulletin</i> , 2011, 46, 2392-2397.	5.2	44
52	Patterning of sol gel thin films by capillary force assisted soft lithographic technique. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 59, 117-127.	2.4	8
53	Study of spin coated multilayer zirconia and silica films for non-quarterwavelength optical design based antireflection effect at 1,054Ånm. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 116-124.	2.4	6
54	Effect of Zr (IV) doping on the optical properties of solâ€“gel based nanostructured indium oxide films on glass. <i>Materials Chemistry and Physics</i> , 2009, 117, 511-516.	4.0	17

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55	ZnSe colloidal nanoparticles synthesized by solvothermal method in the presence of ZrCl ₄ . Journal of Colloid and Interface Science, 2008, 322, 473-477.	9.4	19
56	Near infrared luminescence behavior of organic-inorganic nanohybrid films containing Er ³⁺ doped YbPO ₄ nanoparticles. Thin Solid Films, 2008, 516, 4208-4212.	1.8	2
57	Non-hydrolytic sol-gel synthesis of epoxysilane-based inorganic-organic hybrid resins. Materials Chemistry and Physics, 2008, 112, 1008-1014.	4.0	25
58	Ligand-dependent particle size control of PbSe quantum dots. Journal of Colloid and Interface Science, 2007, 310, 163-166.	9.4	45
59	Crystallization Kinetics and Mechanism of Low-Expansion Lithium Aluminosilicate Glass-Ceramics by Dilatometry. Journal of the American Ceramic Society, 2002, 85, 2572-2574.	3.8	59
60	Glass and glass-ceramic coatings, versatile materials for industrial and engineering applications. Bulletin of Materials Science, 2001, 24, 69-77.	1.7	45
61	Yttria doped zirconia in glassy matrix useful for thermal barrier coating. Materials Letters, 2000, 44, 197-202.	2.6	9
62	Characterization of oxygen deficiency and trivalent zirconium in sol-gel derived zirconia films. Materials Letters, 1997, 30, 53-58.	2.6	34
63	Optical characterization of in-situ generated Cu ₂ O excitons in solution derived nano-zirconia film matrix. Materials Letters, 1997, 32, 263-270.	2.6	35
64	Chemical behaviour of zirconium oxychloride octahydrate and acetic acid in precursor solution for zirconia film formation on glass. Journal of Sol-Gel Science and Technology, 1997, 9, 227-237.	2.4	7
65	Indium Oxide Based Nanomaterials: Fabrication Strategies, Properties, Applications, Challenges and Future Prospect. , 0, , .		1
66	Fabrication and multifunctional properties of fluorine-free durable nickel stearate based superhydrophobic cotton fabric. Journal of Coatings Technology Research, 0, , 1.	2.5	8