

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
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all docs

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docs citations

66
times ranked

1750
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Polyaniline hybridized surface defective ZnO nanorods with long-term stable photoelectrochemical activity. <i>Applied Surface Science</i> , 2016, 383, 165-176.	6.1	84
3	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
4	Anti-biofilm activity and food packaging application of room temperature solution process based polyethylene glycol capped Ag-ZnO-graphene nanocomposite. <i>Materials Science and Engineering C</i> , 2018, 91, 743-753.	7.3	75
5	Crystallization Kinetics and Mechanism of Low-Expansion Lithium Aluminosilicate Glass-Ceramics by Dilatometry. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2572-2574.	3.8	59
6	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
7	Hierarchically structured ZnO-graphene hollow microspheres towards effective reusable adsorbent for organic pollutant via photodegradation process. <i>Journal of Alloys and Compounds</i> , 2016, 669, 177-186.	5.5	49
8	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
9	Synthesis, characterization and antibacterial activity of Ag incorporated ZnOâ€“graphene nanocomposites. <i>RSC Advances</i> , 2016, 6, 88751-88761.	3.6	47
10	Glass and glass-ceramic coatings, versatile materials for industrial and engineering applications. <i>Bulletin of Materials Science</i> , 2001, 24, 69-77.	1.7	45
11	Ligand-dependent particle size control of PbSe quantum dots. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 163-166.	9.4	45
12	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
13	Design, fabrication and characterisation of silica-titania thin film coated over coupled long period fibre gratings: Towards bio-sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 418-427.	7.8	39
14	Optical characterization of in-situ generated Cu ₂ O excitons in solution derived nano-zirconia film matrix. <i>Materials Letters</i> , 1997, 32, 263-270.	2.6	35
15	Characterization of oxygen deficiency and trivalent zirconium in sol-gel derived zirconia films. <i>Materials Letters</i> , 1997, 30, 53-58.	2.6	34
16	Non-hydrolytic solâ€“gel synthesis of epoxysilane-based inorganicâ€“organic hybrid resins. <i>Materials Chemistry and Physics</i> , 2008, 112, 1008-1014.	4.0	25
17	Soft chemical synthesis, characterization and interaction of ZnO graphene nanocomposite with bovine serum albumin protein. <i>Journal of Molecular Liquids</i> , 2017, 237, 113-119.	4.9	24
18	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

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19	Effect of bovine serum albumin immobilized Au@ZnO/graphene nanocomposite on human ovarian cancer cell. <i>Journal of Alloys and Compounds</i> , 2018, 734, 66-74.	5.5	22
20	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
21	Low temperature synthesis of graphene hybridized surface defective hierarchical core-shell structured ZnO hollow microspheres with long-term stable and enhanced photoelectrochemical activity. <i>RSC Advances</i> , 2016, 6, 36058-36068.	3.6	20
22	ZnSe colloidal nanoparticles synthesized by solvothermal method in the presence of ZrCl ₄ . <i>Journal of Colloid and Interface Science</i> , 2008, 322, 473-477.	9.4	19
23	Effect of Zr (IV) doping on the optical properties of sol-gel based nanostructured indium oxide films on glass. <i>Materials Chemistry and Physics</i> , 2009, 117, 511-516.	4.0	17
24	Creation of Self-Organized Complex Meso Patterns in Sol-Gel Thin Films by Confined Capillary Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9546-9553.	3.7	16
25	ZnO/graphene/polyaniline nanoflowers: solution synthesis, formation mechanism and electrochemical activity. <i>RSC Advances</i> , 2016, 6, 40854-40857.	3.6	16
26	Synthesis, characterization and cytotoxicity of polyethylene glycol coupled zinc oxide/chemically converted graphene nanocomposite on human OAW42 ovarian cancer cells. <i>Polymers for Advanced Technologies</i> , 2016, 27, 436-443.	3.2	16
27	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
28	Nanomechanical properties of dip coated indium tin oxide films on glass. <i>Thin Solid Films</i> , 2015, 579, 21-29.	1.8	15
29	Sol-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
30	One pot low temperature synthesis of graphene coupled Gd-doped ZnFe ₂ O ₄ nanocomposite for effective removal of antibiotic levofloxacin drug. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 599-609.	2.4	15
31	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
32	Nanomaterials Based Superhydrophobic and Antimicrobial Coatings. <i>NanoWorld Journal</i> , 2020, 06, .	0.1	14
33	Hierarchically Structured Macro with Nested Mesoporous Zinc Indium Oxide Conducting Film. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4420-4424.	8.0	13
34	Nano silver coated patterned silica thin film by sol-gel based soft lithography technique. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 577-584.	2.4	12
35	Experimental study of perfectly patterned silica-titania optical waveguide. <i>Photonic Sensors</i> , 2012, 2, 81-91.	5.0	11
36	Dependence of precursor composition on patterning and morphology of sol-gel soft lithography based zinc zirconium oxide thin films. <i>Applied Surface Science</i> , 2013, 273, 39-48.	6.1	11

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37	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
38	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
39	Development of a cost effective surface-patterned transparent conductive coating as top-contact of light emitting diodes. Journal of Applied Physics, 2014, 115, 193108.	2.5	10
40	Yttria doped zirconia in glassy matrix useful for thermal barrier coating. Materials Letters, 2000, 44, 197-202.	2.6	9
41	Low-temperature surfactant-free synthesis of tin oxide-reduced graphene oxide nanocomposites and their textural property-dependent lithium storage characteristics. Journal of Sol-Gel Science and Technology, 2015, 76, 402-413.	2.4	9
42	Cobalt Incorporated Pyramidal Shaped Fe_2O_3 Nanoparticles from Poly-vinyl Alcohol Based Precursor. Advances in Nanoparticles, 2016, 05, 9-17.		
43	Patterning of sol gel thin films by capillary force assisted soft lithographic technique. Journal of Sol-Gel Science and Technology, 2011, 59, 117-127.	2.4	8
44	Effect of precursor sol pH on microstructural, optical and photocatalytic properties of vacuum annealed zinc tin oxide thin films on glass. Journal of Sol-Gel Science and Technology, 2013, 67, 8-17.	2.4	8
45	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
46	Fabrication and multifunctional properties of fluorine-free durable nickel stearate based superhydrophobic cotton fabric. Journal of Coatings Technology Research, 0, , 1.	2.5	8
47	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
48	Study of spin coated multilayer zirconia and silica films for non-quarterwavelength optical design based antireflection effect at $1,054\text{\AA}$. Journal of Sol-Gel Science and Technology, 2011, 60, 116-124.	2.4	6
49	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
50	Antimicrobial activity study of Ag-ZnO nanoflowers synthesised from neem extract and application in cotton textiles. International Journal of Nanotechnology, 2021, 18, 531.	0.2	6
51	Sponge-Like Tin Doped Indium Oxide (ITO) from Organic-Inorganic Composite Novel Precursor Foam. Science of Advanced Materials, 2014, 6, 252-262.	0.7	6
52	Nano gold coated hierarchically porous zinc titanium oxide sol-gel based thin film: fabrication and photoelectrochemical activity. Journal of Sol-Gel Science and Technology, 2020, 94, 141-153.	2.4	5
53	Fabrication and multifunctional properties of marigold-like nanostructured $\text{Ni}(\text{OH})_2$ coated cotton fabric. Cellulose, 2021, 28, 1731-1752.	4.9	5
54	Development of superhydrophobic coating from biowaste and natural wax. Materials Today: Proceedings, 2022, 52, 1422-1428.	1.8	5

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55	Sol-gel foam based Cr(III)-Sn(IV) doped indium oxide: characterizations of morphological, structural and magnetic properties. RSC Advances, 2013, 3, 12164.	3.6	4
56	Nanoheterostructures of ZnO Nanorods Decorated with ZnFe ₂ O ₄ Nanoparticles by a Simple Solution Process. Current Nanomaterials, 2019, 4, 63-67.	0.4	4
57	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
58	Green Synthesis of Hierarchically Structured Metal and Metal Oxide Nanomaterials. Advances in Science, Technology and Innovation, 2021, , 91-113.	0.4	3
59	Green synthesis of hierarchically structured Ag-Cu ₂ O on cotton fabric with sustained antimicrobial activity and on-demand oil-water separation ability. Cellulose, 2022, 29, 4703-4724.	4.9	3
60	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
61	Indium Oxide Based Nanomaterials: Fabrication Strategies, Properties, Applications, Challenges and Future Prospect. , 0, , .		1
62	Role of Oxygen Defects on Photoelectrochemical Activity of ZnO Nanorods Grown on Transparent Conducting Oxide Thin Film. General Chemistry, 2020, 6, 190025-190025.	0.6	1
63	Graphene-Based Nanocomposites. , 2021, , 987-1012.		0
64	Graphene Nanocomposite Based Nanoproducts. , 2021, , 1-28.		0
65	Graphene-Based Nanocomposites. , 2020, , 1-26.		0
66	Graphene Nanocomposite-Based Nanoproducts. , 2022, , 373-400.		0