

P Sujatha Devi

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,081
citations

304743

22
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

1414
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution grown ZnO rods: Synthesis, characterization and defect mediated photocatalytic activity. Applied Catalysis B: Environmental, 2015, 165, 128-138.	20.2	104
2	Synthesis and properties of nanocrystalline ceria powders. Journal of Materials Research, 2004, 19, 3162-3171.	2.6	75
3	Photovoltaic and photocatalytic performance of electrospun Zn ₂ SnO ₄ hollow fibers. Applied Catalysis B: Environmental, 2017, 203, 692-703.	20.2	71
4	Surface-Engineered Multifunctional Eu:Gd ₂ O ₃ Nanoplates for Targeted and pH-Responsive Drug Delivery and Imaging Applications. ACS Applied Materials & Interfaces, 2017, 9, 4126-4141.	8.0	57
5	Defects in Chemically Synthesized and Thermally Processed ZnO Nanorods: Implications for Active Layer Properties in Dye-Sensitized Solar Cells. Inorganic Chemistry, 2014, 53, 3961-3972.	4.0	49
6	Role of suppressed oxygen vacancies in the BiFeO ₃ nanofiller to improve the polar phase and multifunctional performance of poly(vinylidene fluoride). Physical Chemistry Chemical Physics, 2019, 21, 5974-5988.	2.8	43
7	Perforated BaSnO ₃ Nanorods Exhibiting Enhanced Efficiency in Dye Sensitized Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 3299-3310.	6.7	42
8	Egg-shell derived carbon dots for base pair selective DNA binding and recognition. Physical Chemistry Chemical Physics, 2018, 20, 20476-20488.	2.8	41
9	Soft-template synthesis of high surface area mesoporous titanium dioxide for dye-sensitized solar cells. International Journal of Energy Research, 2019, 43, 523-534.	4.5	35
10	Nano-ZnO decorated ZnSnO ₃ as efficient fillers in PVDF matrixes: toward simultaneous enhancement of energy storage density and efficiency and improved energy harvesting activity. Nanoscale, 2020, 12, 20908-20921.	5.6	34
11	Hydroxylated BiFeO ₃ as efficient fillers in poly(vinylidene fluoride) for flexible dielectric, ferroelectric, energy storage and mechanical energy harvesting application. Dalton Transactions, 2021, 50, 1824-1837.	3.3	31
12	Preparation of nanoparticles of oxides by the citrate-nitrate process. Journal of Thermal Analysis and Calorimetry, 2011, 104, 859-867.	3.6	29
13	A comparative study on the dye sensitized solar cell performance of solution processed ZnO. Solar Energy, 2014, 102, 143-151.	6.1	29
14	PEGylated Iron Oxide Nanoparticles for pH Responsive Drug Delivery Application. Materials Today: Proceedings, 2018, 5, 9715-9725.	1.8	29
15	Sonochemical Synthesis and Properties of Nanoparticles of FeSbO ₄ . Inorganic Chemistry, 2012, 51, 844-850.	4.0	28
16	A new insight into the interaction of ZnO with calf thymus DNA through surface defects. Journal of Photochemistry and Photobiology B: Biology, 2018, 178, 339-347.	3.8	28
17	Polyaniline-Layered Rutile TiO ₂ Nanorods as Alternative Photoanode in Dye-Sensitized Solar Cells. ACS Omega, 2019, 4, 1130-1138.	3.5	27
18	Tailored piezoelectric performance of self-polarized PVDF/ZnO composites by optimization of aspect ratio of ZnO nanorods. Polymer Composites, 2020, 41, 3351-3363.	4.6	26

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19	Sinter-active nanocrystalline CeO ₂ powder prepared by a mixed fuel process: Effect of fuel on particle agglomeration. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1097-1107.	1.9	25
20	Fluorescent ZnO@Au Nanocomposite as a Probe for Elucidating Specificity in DNA Interaction. <i>ACS Omega</i> , 2018, 3, 7494-7507.	3.5	23
21	Frequency dependent energy storage and dielectric performance of Ba@Zr Co-doped BiFeO ₃ loaded PVDF based mechanical energy harvesters: effect of corona poling. <i>Soft Matter</i> , 2020, 16, 8492-8505.	2.7	23
22	Space charge induced augmented dielectric permittivity and improved energy harvesting ability of nano-Ag decorated ZnSnO ₃ filled PVDF based flexible nanogenerator. <i>Composites Science and Technology</i> , 2021, 213, 108916.	7.8	23
23	Effect of citrate to nitrate ratio on the decomposition characteristics and phase formation of alumina. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 90, 699-706.	3.6	21
24	Photochemical performance of ZnO nanostructures in dye sensitized solar cells. <i>Solid State Sciences</i> , 2015, 48, 237-243.	3.2	20
25	Selective Binding of Genomic <i>Escherichia coli</i> DNA with ZnO Leads to White Light Emission: A New Aspect of Nano@Bio Interaction and Interface. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 644-657.	8.0	19
26	Polycarbonate membrane assisted growth of pyramidal SnO ₂ particles. <i>Journal of Membrane Science</i> , 2009, 326, 388-391.	8.2	16
27	Selective formation of iron oxide and oxyhydroxide nanoparticles at room temperature: Critical role of concentration of ferric nitrate. <i>Materials Chemistry and Physics</i> , 2015, 154, 144-151.	4.0	16
28	Redistribution of native defects and photoconductivity in ZnO under pressure. <i>RSC Advances</i> , 2019, 9, 4303-4313.	3.6	15
29	Significantly suppressed leakage current and reduced band gap of BiFeO ₃ through Ba@Zr Co-Substitution: Structural, optical, electrical and magnetic study. <i>Materials Chemistry and Physics</i> , 2020, 254, 123362.	4.0	15
30	Lanthanum molybdenum oxide: Low-temperature synthesis and characterization. <i>Journal of Materials Research</i> , 2006, 21, 1133-1140.	2.6	14
31	Formation and assembly of blue emitting water lily type ZnO flowers. <i>Solid State Sciences</i> , 2011, 13, 1633-1637.	3.2	13
32	High butane sensitivity and selectivity exhibited by combustion synthesized SnO ₂ nanoparticles. <i>Materials Research Bulletin</i> , 2015, 65, 216-223.	5.2	12
33	Search for new oxide-ion conducting materials in the ceria family of oxides. <i>Ionics</i> , 2008, 14, 73-78.	2.4	11
34	High-Pressure Phase Transitions of Morphologically Distinct Zn ₂ SnO ₄ Nanostructures. <i>ACS Omega</i> , 2019, 4, 10539-10547.	3.5	9
35	<i>De novo</i> design and synthesis of boomerang-shaped molecules and their <i>in silico</i> and SERS-based interactions with SARS-CoV-2 spike protein and ACE2. <i>New Journal of Chemistry</i> , 2021, 45, 17777-17781.	2.8	7
36	SnO ₂ -Based Ceramics for Hydrogen Sensors: Current Status and Perspectives. <i>Transactions of the Indian Ceramic Society</i> , 2015, 74, 129-147.	1.0	6

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37	Development of N and S heteroatom co-doped stable dual emitting carbon ink in aqueous media for sensing applications. <i>New Journal of Chemistry</i> , 2017, 41, 10851-10859.	2.8	6
38	New cathode compositions based on $\text{La}_{0.84}\text{Sr}_{0.16}\text{Mn}_{1-x}\text{MxO}_3$, where M=Al, Ga for solid oxide fuel cell. <i>Materials Research Bulletin</i> , 2011, 46, 303-307.	5.2	3
39	Pressure-induced assemblies and structures of graphitic-carbon sheet encapsulated Au nanoparticles. <i>Nanoscale</i> , 2020, 12, 17462-17469.	5.6	3
40	A New Functional Composite for Photovoltaic and Sensor Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2000785.	5.1	3