

# 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	A New Functional Composite for Photovoltaic and Sensor Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2000785.	5.1	3
2	Hydroxylated BiFeO <sub>3</sub> as efficient fillers in poly(vinylidene fluoride) for flexible dielectric, ferroelectric, energy storage and mechanical energy harvesting application. <i>Dalton Transactions</i> , 2021, 50, 1824-1837.	3.3	31
3	Space charge induced augmented dielectric permittivity and improved energy harvesting ability of nano-Ag decorated ZnSnO <sub>3</sub> filled PVDF based flexible nanogenerator. <i>Composites Science and Technology</i> , 2021, 213, 108916.	7.8	23
4	De novo design and synthesis of boomerang-shaped molecules and their in silico 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
5	Nano-ZnO decorated ZnSnO <sub>3</sub> as efficient fillers in PVDF matrixes: toward simultaneous enhancement of energy storage density and efficiency and improved energy harvesting activity. <i>Nanoscale</i> , 2020, 12, 20908-20921.	5.6	34
6	Tailored piezoelectric performance of self-polarized PVDF/ZnO composites by optimization of aspect ratio of ZnO nanorods. <i>Polymer Composites</i> , 2020, 41, 3351-3363.	4.6	26
7	Frequency dependent energy storage and dielectric performance of Ba <sup>2+</sup> /Zr Co-doped BiFeO <sub>3</sub> loaded PVDF based mechanical energy harvesters: effect of corona poling. <i>Soft Matter</i> , 2020, 16, 8492-8505.	2.7	23
8	Pressure-induced assemblies and structures of graphitic-carbon sheet encapsulated Au nanoparticles. <i>Nanoscale</i> , 2020, 12, 17462-17469.	5.6	3
9	Significantly suppressed leakage current and reduced band gap of BiFeO <sub>3</sub> through Ba <sup>2+</sup> /Zr Co-Substitution: Structural, optical, electrical and magnetic study. <i>Materials Chemistry and Physics</i> , 2020, 254, 123362.	4.0	15
10	High-Pressure Phase Transitions of Morphologically Distinct Zn <sub>2</sub> SnO <sub>4</sub> Nanostructures. <i>ACS Omega</i> , 2019, 4, 10539-10547.	3.5	9
11	Redistribution of native defects and photoconductivity in ZnO under pressure. <i>RSC Advances</i> , 2019, 9, 4303-4313.	3.6	15
12	Role of suppressed oxygen vacancies in the BiFeO <sub>3</sub> nanofiller to improve the polar phase and multifunctional performance of poly(vinylidene fluoride). <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5974-5988.	2.8	43
13	Soft-template synthesis of high surface area mesoporous titanium dioxide for dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2019, 43, 523-534.	4.5	35
14	Polyaniline-Layered Rutile TiO <sub>2</sub> Nanorods as Alternative Photoanode in Dye-Sensitized Solar Cells. <i>ACS Omega</i> , 2019, 4, 1130-1138.	3.5	27
15	PEGylated Iron Oxide Nanoparticles for pH Responsive Drug Delivery Application. <i>Materials Today: Proceedings</i> , 2018, 5, 9715-9725.	1.8	29
16	Perforated BaSnO <sub>3</sub> Nanorods Exhibiting Enhanced Efficiency in Dye Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3299-3310.	6.7	42
17	A new insight into the interaction of ZnO with calf thymus DNA through surface defects. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 178, 339-347.	3.8	28
18	Egg-shell derived carbon dots for base pair selective DNA binding and recognition. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20476-20488.	2.8	41

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19	Fluorescent ZnO@Au Nanocomposite as a Probe for Elucidating Specificity in DNA Interaction. ACS Omega, 2018, 3, 7494-7507.	3.5	23
20	Surface-Engineered Multifunctional Eu:Gd <sub>2</sub> O <sub>3</sub> Nanoplates for Targeted and pH-Responsive Drug Delivery and Imaging Applications. ACS Applied Materials & Interfaces, 2017, 9, 4126-4141.	8.0	57
21	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. ACS Applied Materials & Interfaces, 2017, 9, 644-657.	8.0	19
22	Development of N and S heteroatom co-doped stable dual emitting carbon ink in aqueous media for sensing applications. New Journal of Chemistry, 2017, 41, 10851-10859.	2.8	6
23	Photovoltaic and photocatalytic performance of electrospun Zn <sub>2</sub> SnO <sub>4</sub> hollow fibers. Applied Catalysis B: Environmental, 2017, 203, 692-703.	20.2	71
24	Selective formation of iron oxide and oxyhydroxide nanoparticles at room temperature: Critical role of concentration of ferric nitrate. Materials Chemistry and Physics, 2015, 154, 144-151.	4.0	16
25	High butane sensitivity and selectivity exhibited by combustion synthesized SnO <sub>2</sub> nanoparticles. Materials Research Bulletin, 2015, 65, 216-223.	5.2	12
26	SnO <sub>2</sub> -Based Ceramics for Hydrogen Sensors: Current Status and Perspectives. Transactions of the Indian Ceramic Society, 2015, 74, 129-147.	1.0	6
27	Photochemical performance of ZnO nanostructures in dye sensitized solar cells. Solid State Sciences, 2015, 48, 237-243.	3.2	20
28	Solution grown ZnO rods: Synthesis, characterization and defect mediated photocatalytic activity. Applied Catalysis B: Environmental, 2015, 165, 128-138.	20.2	104
29	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
30	A comparative study on the dye sensitized solar cell performance of solution processed ZnO. Solar Energy, 2014, 102, 143-151.	6.1	29
31	Sonochemical Synthesis and Properties of Nanoparticles of FeSbO <sub>4</sub> . Inorganic Chemistry, 2012, 51, 844-850.	4.0	28
32	Formation and assembly of blue emitting water lily type ZnO flowers. Solid State Sciences, 2011, 13, 1633-1637.	3.2	13
33	New cathode compositions based on La <sub>0.84</sub> Sr <sub>0.16</sub> Mn <sub>1-x</sub> MxO <sub>3</sub> , where M=Al, Ga for solid oxide fuel cell. Materials Research Bulletin, 2011, 46, 303-307.	5.2	3
34	Preparation of nanoparticles of oxides by the citrate-nitrate process. Journal of Thermal Analysis and Calorimetry, 2011, 104, 859-867.	3.6	29
35	Polycarbonate membrane assisted growth of pyramidal SnO <sub>2</sub> particles. Journal of Membrane Science, 2009, 326, 388-391.	8.2	16
36	Search for new oxide-ion conducting materials in the ceria family of oxides. Ionics, 2008, 14, 73-78.	2.4	11

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37	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
38	Sinter-active nanocrystalline CeO <sub>2</sub> 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
39	Lanthanum molybdenum oxide: Low-temperature synthesis and characterization. <i>Journal of Materials Research</i> , 2006, 21, 1133-1140.	2.6	14
40	Synthesis and properties of nanocrystalline ceria powders. <i>Journal of Materials Research</i> , 2004, 19, 3162-3171.	2.6	75