

# S Saravanakumar

## List of Publications by Year in descending order

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49  
papers

514  
citations

687363

13  
h-index

752698

20  
g-index

49  
all docs

49  
docs citations

49  
times ranked

532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactants-assisted synthesis of ZnWO <sub>4</sub> nanostructures: A view on photocatalysis, photoluminescence and electron density distribution analysis. <i>Materials Characterization</i> , 2020, 159, 110035.	4.4	41
2	Structural, optical and magnetic properties of Ni-doped CdS thin films prepared by CBD. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2059-2065.	2.2	35
3	Effect of sintering temperature on the magnetic properties and charge density distribution of nano-NiO. <i>Chemical Papers</i> , 2014, 68, .	2.2	34
4	Investigation on mesoporous bimetallic tungstate nanostructure for high-performance solid- state supercapattery. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160066.	5.5	33
5	Structural, luminescence and EPR properties of deep red emitting MgY <sub>2</sub> Al <sub>4</sub> SiO <sub>12</sub> :Cr <sup>3+</sup> garnet phosphor. <i>Journal of Luminescence</i> , 2020, 220, 116975.	3.1	30
6	Optical, electrical and microstructural studies of monoclinic CuO nanostructures synthesized by a sol-gel route. <i>New Journal of Chemistry</i> , 2014, 38, 2327.	2.8	28
7	Sm <sup>3+</sup> induced-SrWO <sub>4</sub> phosphor: analysis of photoluminescence and photocatalytic properties with electron density distribution studies. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8865-8883.	2.2	23
8	Analysis of structural, optical and charge density distribution studies on Zn <sub>1-x</sub> Mn <sub>x</sub> S nanostructures. <i>Physica B: Condensed Matter</i> , 2018, 545, 134-140.	2.7	21
9	Growth and local structure analysis of ZnS nanoparticles. <i>Physica B: Condensed Matter</i> , 2010, 405, 3700-3703.	2.7	18
10	Enhanced Photocatalytic Decomposition Efficacy of Novel MgO NPs: Impact of Annealing Temperatures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 3027-3036.	3.7	17
11	Structural, optical and charge density analysis of Al doped ZnO Materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 2966-2974.	2.2	16
12	Structural, magnetic and charge-related properties of nano-sized cerium manganese oxide, a dilute magnetic oxide semiconductor. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 186-193.	4.0	15
13	Origin of ferroelectricity in orthorhombic $\text{LuFeO}_3$ . <i>Physical Review B</i> , 2019, 100, .	3.2	14
14	Studies on Dilute Magnetic Semiconducting Co-Doped CdS Thin Films Prepared by Chemical Bath Deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12092-12099.	2.2	13
15	Sunlight-operable light converting smart windows for fertilizer-free plant growth enhancement. <i>Nano Today</i> , 2020, 34, 100918.	11.9	13
16	Enriched optoelectronic properties of cobalt-doped ZnO thin films for photodetector applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 27060-27072.	2.2	12
17	Investigation of the van der Waals epitaxy gap in isostructural semiconducting germanium tellurides: HfGeTe <sub>4</sub> and ZrGeTe <sub>4</sub> . <i>Chinese Journal of Physics</i> , 2016, 54, 668-677.	3.9	11
18	Charge correlation of ferroelectric and piezoelectric properties of $(1-x)(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3-x\text{BaTiO}_3$ lead-free ceramic solid solution. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9950-9963.	2.2	11

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19	ZnWO <sub>4</sub> :Eu <sup>3+</sup> phosphor with intense blue LED excitation: photoluminescence and electron density distribution analysis. <i>Luminescence</i> , 2021, 36, 99-109.	2.9	11
20	Red emitting Eu <sup>3+</sup> induced SrWO <sub>4</sub> materials: synthesis, structural, morphological and photoluminescence analysis. <i>Physica Scripta</i> , 2021, 96, 125817.	2.5	11
21	The analysis on the rearrangement of charge density distribution in response to magnetic behavior in Mn doped SnO <sub>2</sub> nanoparticles. <i>Physica B: Condensed Matter</i> , 2012, 407, 302-310.	2.7	10
22	Solubility of Mn stabilized cubic zirconia nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 837-843.	2.2	9
23	Electronic structure, optical and chemical bonding properties of strontium doped Barium Titanate. <i>Optik</i> , 2020, 206, 163752.	2.9	9
24	Investigation on charge density, piezoelectric and ferroelectric properties of (1-x)Ba(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> -x(Ba <sub>0.7</sub> Ca <sub>0.3</sub> )TiO <sub>3</sub> lead-free piezoceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1198-1208.	2.2	8
25	Effect of neodymium doping in BaTiO <sub>3</sub> ceramics on structural and ferroelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1535-1546.	2.2	8
26	Influence of Eu <sup>3+</sup> -doped BaTiO <sub>3</sub> phosphors on structural, optical and photoluminescence properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12253-12264.	2.2	8
27	Improved ammonia vapor sensing properties of Al-doped ZnO nanoparticles prepared by sol-gel process. <i>Physica Scripta</i> , 2021, 96, 085802.	2.5	7
28	Doping-induced electron density modification at lattice sites of ZnO:Ga nanostructures: effects on vibrational and optical properties. <i>Journal of Materials Science</i> , 2014, 49, 5529-5536.	3.7	6
29	Enhancement of intrinsic green emission in phase pure ZnO. <i>Physica B: Condensed Matter</i> , 2022, 644, 414155.	2.7	6
30	TiO <sub>2</sub> Nanowires Grown from Nanoparticles: Structure and Charge Density Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 6672-6678.	0.9	5
31	Structure and charge density of Ce doped gadolinium gallium garnet (GGG). <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1920-1928.	2.2	5
32	Understanding electronic and magnetic transitions in ball milled diluted magnetic semiconductor Si <sub>1-x</sub> Ni <sub>x</sub> through experimental electron density distribution. <i>Journal of Alloys and Compounds</i> , 2017, 728, 887-895.	5.5	5
33	Three dimensional atomistic-scale electron density distribution analysis of ZnWO <sub>4</sub> : Sm phosphors. <i>Optik</i> , 2022, 249, 168169.	2.9	5
34	Room Temperature Magnetism and Experimental Electron Density Analysis of Co <sup>2+</sup> Doped ZnFe <sub>2</sub> O <sub>4</sub> Spinel Nanoferrites. <i>Journal of Electronic Materials</i> , 0, , 1.	2.2	5
35	Effect of preparation techniques on BaWO <sub>4</sub> : structural, morphological, optical and electron density distribution analysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1466-1475.	2.2	4
36	Preparation, electronic structure, and chemical bonding of lead-free (1-x)(K <sub>0.5</sub> Bi <sub>0.5</sub> )TiO <sub>3</sub> -xBaTiO <sub>3</sub> solid solution. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	2

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37	The redistribution of charge density in CaF <sub>2</sub> :Yb <sup>3+</sup> . Journal of Materials Science: Materials in Electronics, 2015, 26, 6683-6691.	2.2	1
38	Comprehensive Study on Nebulizer-Spray-Pyrolyzed Eu-Doped PbS Thin Films for Optoelectronic Applications. Journal of Electronic Materials, 2020, 49, 5439-5448.	2.2	1
39	Outer-connected open packing sets in graphs. Asian-European Journal of Mathematics, 0, , 2250083.	0.5	1
40	Ho <sup>3+</sup> -Induced ZnO: Structural, Electron Density Distribution and Antibacterial Activity for Biomedical Application. Applied Biochemistry and Biotechnology, 2022, , 1.	2.9	1
41	Synthesis and characterisation of yttrium doped cerium oxide nanoparticles and their efficient antibacterial application invitro against gram-positive and gram-negative pathogens. Materials Today: Proceedings, 2022, , .	1.8	1
42	Synthesis and Electron Density Analysis of SnO <sub>2</sub> Nano Particles. Materials Science Forum, 2011, 671, 121-129.	0.3	0
43	Rietveld analysis, optical, and ferroelectric properties of (1-x)(Na <sub>0.97</sub> K <sub>0.03</sub> )NbO <sub>3</sub> -xBaTiO <sub>3</sub> (x=0.1, 0.2) ceramics synthesized by solid-state reaction method. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	0
44	Open packing bondage number of a graph. Discrete Mathematics, Algorithms and Applications, 2019, 11, 1950051.	0.6	0
45	Investigations on structural and electrical properties of conventional and microwave sintered BaTiO <sub>3</sub> and Ba <sub>0.98</sub> Nd <sub>0.02</sub> TiO <sub>3</sub> ceramics. Ferroelectrics, 2021, 572, 147-157.	0.6	0
46	Effect of BaSnO <sub>3</sub> on structural and electrical properties of lead free Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> ceramic solid solution. Physica Scripta, 2021, 96, 125805.	2.5	0
47	Charge Density Distribution and Bonding in Calcite. Materials Research Foundations, 2016, , 128-146.	0.3	0
48	Electronic Charge Density Distributions in Sb <sub>2</sub> O. Materials Research Foundations, 2016, , 93-107.	0.3	0
49	Electronic Bonding Analysis on Dilute Doping of Iron in Nickel Oxide Nano Crystals. Materials Research Foundations, 2016, , 69-80.	0.3	0