

S Saravanakumar

List of Publications by Year in descending order

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papers

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687363

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Three dimensional atomistic-scale electron density distribution analysis of ZnWO ₄ : Sm phosphors. <i>Optik</i> , 2022, 249, 168169.	2.9	5
2	Ho ³⁺ -Induced ZnO: Structural, Electron Density Distribution and Antibacterial Activity for Biomedical Application. <i>Applied Biochemistry and Biotechnology</i> , 2022, , 1.	2.9	1
3	Synthesis and characterisation of yttrium doped cerium oxide nanoparticles and their efficient antibacterial application invitro against gram-positive and gram-negative pathogens. <i>Materials Today: Proceedings</i> , 2022, , .	1.8	1
4	Enhancement of intrinsic green emission in phase pure ZnO. <i>Physica B: Condensed Matter</i> , 2022, 644, 414155.	2.7	6
5	ZnWO ₄ :Eu ³⁺ phosphor with intense blue LED excitation: photoluminescence and electron density distribution analysis. <i>Luminescence</i> , 2021, 36, 99-109.	2.9	11
6	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
7	Investigations on structural and electrical properties of conventional and microwave sintered BaTiO ₃ and Ba _{0.98} Nd _{0.02} TiO ₃ ceramics. <i>Ferroelectrics</i> , 2021, 572, 147-157.	0.6	0
8	Influence of Eu ³⁺ -doped BaTiO ₃ phosphors on structural, optical and photoluminescence properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 12253-12264.	2.2	8
9	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
10	Effect of BaSnO ₃ on structural and electrical properties of lead free Na _{0.5} Bi _{0.5} TiO ₃ ceramic solid solution. <i>Physica Scripta</i> , 2021, 96, 125805.	2.5	0
11	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
12	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
13	Red emitting Eu ³⁺ -induced SrWO ₄ materials: synthesis, structural, morphological and photoluminescence analysis. <i>Physica Scripta</i> , 2021, 96, 125817.	2.5	11
14	Effect of preparation techniques on BaWO ₄ : structural, morphological, optical and electron density distribution analysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1466-1475.	2.2	4
15	Effect of neodymium doping in BaTiO ₃ ceramics on structural and ferroelectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1535-1546.	2.2	8
16	Structural, luminescence and EPR properties of deep red emitting MgY ₂ Al ₄ SiO ₁₂ :Cr ³⁺ garnet phosphor. <i>Journal of Luminescence</i> , 2020, 220, 116975.	3.1	30
17	Surfactants-assisted synthesis of ZnWO ₄ nanostructures: A view on photocatalysis, photoluminescence and electron density distribution analysis. <i>Materials Characterization</i> , 2020, 159, 110035.	4.4	41
18	Electronic structure, optical and chemical bonding properties of strontium doped Barium Titanate. <i>Optik</i> , 2020, 206, 163752.	2.9	9

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19	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
20	Sm ³⁺ induced-SrWO ₄ phosphor: analysis of photoluminescence and photocatalytic properties with electron density distribution studies. Journal of Materials Science: Materials in Electronics, 2020, 31, 8865-8883.	2.2	23
21	Sunlight-operable light converting smart windows for fertilizer-free plant growth enhancement. Nano Today, 2020, 34, 100918.	11.9	13
22	Rietveld analysis, optical, and ferroelectric properties of (1-x)(Na _{0.97} K _{0.03})NbO ₃ -xBaTiO ₃ (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
23	Open packing bondage number of a graph. Discrete Mathematics, Algorithms and Applications, 2019, 11, 1950051.	0.6	0
24	Origin of ferroelectricity in orthorhombic LuFeO_3 . Physical Review B, 2019, 100, .	3.2	14
25	Structural, optical and charge density analysis of Al doped ZnO Materials. Journal of Materials Science: Materials in Electronics, 2019, 30, 2966-2974.	2.2	16
26	Preparation, electronic structure, and chemical bonding of lead-free (1-x)(K _{0.5} Bi _{0.5})TiO ₃ -xBaTiO ₃ solid solution. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	2
27	Investigation on charge density, piezoelectric and ferroelectric properties of (1-x)Ba(Zr _{0.2} Ti _{0.8})O ₃ -xBa _{0.7} Ca _{0.3} TiO ₃ lead-free piezoceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 1198-1208.	2.2	8
28	Analysis of structural, optical and charge density distribution studies on Zn _{1-x} Mn _x S nanostructures. Physica B: Condensed Matter, 2018, 545, 134-140.	2.7	21
29	Studies on Dilute Magnetic Semiconducting Co-Doped CdS Thin Films Prepared by Chemical Bath Deposition method. Journal of Materials Science: Materials in Electronics, 2017, 28, 12092-12099.	2.2	13
30	Charge correlation of ferroelectric and piezoelectric properties of (1-x)(Na _{0.5} Bi _{0.5})TiO ₃ -xBaTiO ₃ lead-free ceramic solid solution. Journal of Materials Science: Materials in Electronics, 2017, 28, 9950-9963.	2.2	11
31	Understanding electronic and magnetic transitions in ball milled diluted magnetic semiconductor Si _{1-x} Ni _x through experimental electron density distribution. Journal of Alloys and Compounds, 2017, 728, 887-895.	5.5	5
32	Investigation of the van der Waals epitaxy gap in isostructural semiconducting germanium tellurides: HfGeTe ₄ and ZrGeTe ₄ . Chinese Journal of Physics, 2016, 54, 668-677.	3.9	11
33	Structure and charge density of Ce doped gadolinium gallium garnet (GGG). Journal of Materials Science: Materials in Electronics, 2016, 27, 1920-1928.	2.2	5
34	Charge Density Distribution and Bonding in Calcite. Materials Research Foundations, 2016, , 128-146.	0.3	0
35	Electronic Charge Density Distributions in Sb ₂ O. Materials Research Foundations, 2016, , 93-107.	0.3	0
36	Electronic Bonding Analysis on Dilute Doping of Iron in Nickel Oxide Nano Crystals. Materials Research Foundations, 2016, , 69-80.	0.3	0

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37	The redistribution of charge density in CaF ₂ :Yb ³⁺ . Journal of Materials Science: Materials in Electronics, 2015, 26, 6683-6691.	2.2	1
38	Structural, optical and magnetic properties of Ni-doped CdS thin films prepared by CBD. Journal of Materials Science: Materials in Electronics, 2015, 26, 2059-2065.	2.2	35
39	Effect of sintering temperature on the magnetic properties and charge density distribution of nano-NiO. Chemical Papers, 2014, 68, .	2.2	34
40	Solubility of Mn stabilized cubic zirconia nanostructures. Journal of Materials Science: Materials in Electronics, 2014, 25, 837-843.	2.2	9
41	Optical, electrical and microstructural studies of monoclinic CuO nanostructures synthesized by a sol-gel route. New Journal of Chemistry, 2014, 38, 2327.	2.8	28
42	Structural, magnetic and charge-related properties of nano-sized cerium manganese oxide, a dilute magnetic oxide semiconductor. Materials Science in Semiconductor Processing, 2014, 17, 186-193.	4.0	15
43	Doping-induced electron density modification at lattice sites of ZnO:Ga nanostructures: effects on vibrational and optical properties. Journal of Materials Science, 2014, 49, 5529-5536.	3.7	6
44	TiO ₂ Nanowires Grown from Nanoparticles: Structure and Charge Density Study. Journal of Nanoscience and Nanotechnology, 2013, 13, 6672-6678.	0.9	5
45	The analysis on the rearrangement of charge density distribution in response to magnetic behavior in Mn doped SnO ₂ nanoparticles. Physica B: Condensed Matter, 2012, 407, 302-310.	2.7	10
46	Synthesis and Electron Density Analysis of SnO ₂ Nano Particles. Materials Science Forum, 2011, 671, 121-129.	0.3	0
47	Growth and local structure analysis of ZnS nanoparticles. Physica B: Condensed Matter, 2010, 405, 3700-3703.	2.7	18
48	Outer-connected open packing sets in graphs. Asian-European Journal of Mathematics, 0, , 2250083.	0.5	1
49	Room Temperature Magnetism and Experimental Electron Density Analysis of Co ²⁺ Doped ZnFe ₂ O ₄ Spinel Nanoferrites. Journal of Electronic Materials, 0, , 1.	2.2	5