

Dr S Kumaran

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88

papers

1,531

citations

20

h-index

36

g-index

92

ext. papers

1,766

ext. citations

2.8

avg, IF

5.66

L-index

#	Paper	IF	Citations
88	Structural, FTIR and photoluminescence studies of Cu doped ZnO nanopowders by co-precipitation method. <i>Optical Materials</i> , 2012 , 34, 1946-1953	3.3	351
87	Microstructure, optical and FTIR studies of Ni, Cu co-doped ZnO nanoparticles by co-precipitation method. <i>Optical Materials</i> , 2014 , 37, 671-678	3.3	72
86	Effect of Ni doping on electrical, photoluminescence and magnetic behavior of Cu doped ZnO nanoparticles. <i>Journal of Luminescence</i> , 2015 , 162, 97-103	3.8	64
85	Electrical, dielectric, photoluminescence and magnetic properties of ZnO nanoparticles co-doped with Co and Cu. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 374, 61-66	2.8	61
84	Defect related microstructure, optical and photoluminescence behaviour of Ni, Cu co-doped ZnO nanoparticles by co-precipitation method. <i>Optical Materials</i> , 2015 , 42, 124-131	3.3	55
83	Structural, optical, dielectric and antibacterial studies of Mn doped Zn _{0.96} Cu _{0.04} O nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 144, 1-7	4.4	42
82	Preparation, structural, photoluminescence and magnetic studies of Cu doped ZnO nanoparticles co-doped with Ni by sol-gel method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 74, 93-100	3	41
81	Influence of Yttrium on optical, structural and photoluminescence properties of ZnO nanopowders by sol-gel method. <i>Optical Materials</i> , 2013 , 35, 2241-2249	3.3	40
80	Structural, optical, FTIR and photoluminescence properties of Zn _{0.96} Co _{0.04} Cu _x O (x=0.03, 0.04 and 0.05) nanopowders. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3448-3456	2.8	33
79	Tuning of energy gap, microstructure, optical and structural properties of Cr doped Zn _{0.96} Cu _{0.04} O nanoparticles. <i>Powder Technology</i> , 2014 , 258, 157-164	5.2	32
78	Composition dependent optical, structural and photoluminescence behaviour of CdS:Al thin films by chemical bath deposition method. <i>Ceramics International</i> , 2014 , 40, 10657-10666	5.1	31
77	Structural, band gap and photoluminescence behaviour of Mn-doped ZnS quantum dots annealed under Ar atmosphere. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 1533-1542	2.1	29
76	Structural, optical and antibacterial investigation of La, Cu dual doped ZnO nanoparticles prepared by co-precipitation method. <i>Materials Science and Engineering C</i> , 2020 , 108, 110387	8.3	29
75	Microstructure and band gap tailoring of Zn _{0.96} Cu _{0.04} CoxO (0x0.04) nanoparticles prepared by co-precipitation method. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 606-612	5.7	28
74	Structural, optical and photoluminescence studies of heavily Mn-doped ZnO nanoparticles annealed under Ar atmosphere. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1393-1401	2.1	26
73	Influence of Co ²⁺ on electrical and optical behavior of Mn ²⁺ -doped ZnS quantum dots. <i>Optics and Laser Technology</i> , 2018 , 103, 109-117	4.2	24
72	Structural, photoluminescence and magnetic properties of Mn, Cr dual-doped ZnS quantum dots: Influence of Cr concentration. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 120, 183-189	3.9	24

71	Structural, optical and morphological properties of La, Cu co-doped SnO ₂ nanocrystals by co-precipitation method. <i>Optical Materials</i> , 2014 , 37, 425-432	3-3	23
70	Band gap tailoring and yellow band emission of Cd _{0.9} Mn _x Zn _{0.15} (x=0 to 0.05) nanoparticles: Influence of Mn concentration. <i>Materials Science in Semiconductor Processing</i> , 2016 , 41, 282-290	4-3	21
69	Enhanced room temperature ferromagnetism and photoluminescence behavior of Cu-doped ZnO co-doped with Mn. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 69, 354-359	3	20
68	Effect of Cr-doping on dielectric, electric and magnetic properties of Zn _{0.96} Cu _{0.04} O nanopowders. <i>Powder Technology</i> , 2014 , 268, 80-85	5-2	20
67	Enhanced blue-light emission on Cd _{0.9-x} Zn _{0.1} Cr _x S(0 ≤ x ≤ 0.05) quantum dots. <i>Ceramics International</i> , 2019 , 45, 3833-3838	5-1	20
66	Influence of Co-doping on the structural, optical and morphological properties of Zn _{0.96} Mn _{0.04} O nanoparticles by sol-gel method. <i>Optical Materials</i> , 2014 , 36, 797-803	3-3	19
65	Zn _{0.96} Cu _{0.04} FexO (0 ≤ x ≤ 0.04) alloys (Optical and structural studies. <i>Superlattices and Microstructures</i> , 2014 , 69, 53-64	2-8	19
64	Structural and optical properties of Y, Cu co-doped ZnO nanoparticles by sol-gel method. <i>Superlattices and Microstructures</i> , 2014 , 74, 247-260	2-8	18
63	Structural, photoluminescence and magnetic properties of Cu-doped SnO ₂ nanoparticles co-doped with Co. <i>Optics and Laser Technology</i> , 2019 , 112, 458-466	4-2	18
62	Size dependent structural, optical and morphological properties of ZnS:Cu thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 811-815	2-1	17
61	Effect of deposition time on structural, optical and photoluminescence properties of Cd _{0.9} Zn _{0.15} thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2858-2865	2-1	16
60	Influence of Cu doping on the microstructure, optical properties and photoluminescence features of Cd _{0.9} Zn _{0.15} nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 72, 111-119 ³		15
59	Structural and optical properties of Cd _{1-x} Zn _x S (0 ≤ x ≤ 0.3) nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3308-3317	2-1	15
58	Investigation of optical, structural, FTIR and magnetic properties of Sn substituted Zn _{0.98} Mn _{0.02} O nanoparticles. <i>Ceramics International</i> , 2016 , 42, 5921-5931	5-1	14
57	Structural, optical, FTIR and photoluminescence studies of CdS _{1-x} Sex thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1647-1656	2-1	14
56	Nanostructure, optical and photoluminescence properties of Zn _{1-x} Ni _x O nanoclusters by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 1069-1080	2-1	14
55	Microstructural, crystallographic and optical characterizations of Cu-doped ZnO nanoparticles co-doped with Ni. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4298-4307	2-1	13
54	Investigation of Ni influence on structural and band gap tuning of Zn _{0.98} Mn _{0.02} S quantum dots by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 8309-8315	2-1	12

53	Investigation of optical and structural properties of Fe, Cu co-doped SnO ₂ nanoparticles. <i>Superlattices and Microstructures</i> , 2015 , 83, 507-520	2.8	12
52	Crystallographic, Structural and Band Gap Tailoring of Zn _{0.98} Mn _{0.02} S Quantum Dots Co-Doped with Cu by Co-Precipitation Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016 , 26, 563-571	3.2	12
51	Zn _{0.91} Cu _{0.04} M _{0.05} O (M=Ni, Co, Cr) nanocrystals: Structural study and energy gap tailoring. <i>Materials Letters</i> , 2014 , 131, 302-305	3.3	12
50	Structural, magnetic and photoluminescence behavior of Ni/Fe doped ZnO nanostructures prepared by co-precipitation method. <i>Optik</i> , 2020 , 202, 163714	2.5	12
49	Effect of solvents on the structural, optical and morphological properties of Zn _{0.96} Cu _{0.04} O nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 4050-4059	2.1	11
48	Investigation of microstructure, electrical and photoluminescence behaviour of Ni-doped Zn _{0.96} Mn _{0.04} O nanoparticles: Effect of Ni concentration. <i>Optical Materials</i> , 2017 , 69, 382-391	3.3	10
47	Band gap tailoring, structural and morphological behavior of Zn _{0.96} Co _{0.04} Cu _x O (0 ≤ x ≤ 0.10) alloys by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 2004-2015	2.1	10
46	Cu-doping effect on the structural, optical and photoluminescence properties of Sn _{0.98} Cr _{0.02} O ₂ nanoparticles by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2581-2592	2.1	10
45	Size Dependent Structural and Optical Properties of Cd _{0.9} Zn _{0.1} S Thin Films. <i>Physics Procedia</i> , 2013 , 49, 137-144		10
44	Biosynthesis, structural, photoluminescence and photocatalytic performance of Mn/Mg dual doped ZnO nanostructures using Ocimum tenuiflorum leaf extract. <i>Optik</i> , 2020 , 208, 164556	2.5	10
43	Microstructural and band gap exploration on Ni-doped SnO ₂ nanoparticles co-doped with Cu. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 3989-3996	2.1	9
42	Effect of heat-treatment on the structural and optical properties of Cu ₂ S thin films deposited by CBD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 824-831	2.1	9
41	Microstructure, Crystallographic and Photoluminescence Examination of Ni Doped ZnO Nanoparticles Co-doped with Co by Sol-Gel Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2017 , 27, 1572-1582	3.2	8
40	Optical, structural, FTIR and photoluminescence characterization of Cu and Al doped CdS thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 6800-6808	2.1	7
39	Tuning of energy gap, structural, FTIR and photoluminescence examination of Ni, Sn dual doped ZnO nanoparticles. <i>Materials Research Express</i> , 2019 , 6, 045006	1.7	7
38	Structural, morphological and spectroscopic investigation of Mn doped Zn _{0.96} Cu _{0.04} O nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 1225-1233	2.1	6
37	Enhanced Room Temperature Ferromagnetism by Fe Doping in Zn _{0.96} Cu _{0.04} O Diluted Magnetic Semiconductors. <i>Journal of Electronic Materials</i> , 2016 , 45, 976-982	1.9	6
36	Effect of deposition time on optical, structural and photoluminescence properties of Cd _{0.6} Co _{0.4} S thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2277-2286	2.1	6

35	Role of defects in optical, photoluminescence and magnetic properties of Zn _{0.96} Ni _{0.04} Cr _x O nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 240-249	5.7	5
34	Band gap tailoring and enhanced visible emission by two-step annealing in Zn _{0.94} Cu _{0.04} Cr _{0.02} O nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 9667-9679	2.1	5
33	Microstructure, optical and structural characterization of Cd _{0.98} Fe _{0.02} S thin films co-doped with Zn by chemical bath deposition method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 78, 56-64	3	5
32	Microstructure, crystallographic and photoluminescence examination of Ni doped ZnO nanoparticles co-doped with Co by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12995-13005	2.1	4
31	Microstructure, Tuning of Band Gap, Enhanced Green Band Emission and Antibacterial Studies of Cu, Cr Dual Doped ZnO Nanoparticles by Annealing Temperature. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2016 , 26, 950-961	3.2	4
30	Tuning of band gap and photoluminescence properties of Zn doped Cu ₂ S thin films by CBD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2042-2048	2.1	4
29	Influence of defects on the structural, optical, photoluminescence and magnetic properties of Cr/Mn dual doped ZnO nanostructures. <i>Chemical Physics Impact</i> , 2021 , 2, 100019	1.6	4
28	Structural, energy gap tuning, photoluminescence and magnetic properties of Sn-doped Zn _{0.96} Ni _{0.04} O nanostructures. <i>Journal of Luminescence</i> , 2021 , 238, 118258	3.8	4
27	Investigation of structural, photoluminescence and antibacterial behavior of Mn-doped and Co, Mn dual doped CdS thin films by CBD method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 12021-12027	2.1	3
26	Modifications in band gap and optical properties of Zn _{0.96} Nd _{0.04} Cu _x O (x = 0, 0.05, 0.1 and 0.15) nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 133-141	2.3	3
25	pH-induced modification on the structural, optical and morphological properties of Zn _{0.94} Ni _{0.04} Mn _{0.02} O nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 5189-5198 ³	2.1	3
24	Temperature-induced modification on the structural, optical and morphological properties of Zn _{0.96} Cu _{0.04} O nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 398-407	2.1	3
23	Enhanced Photo-Catalytic and Antibacterial Properties of Ni-Doped CdZnS Nanostructures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 32, 1-14	3.2	3
22	Optical and structural properties of Mn/Cu doped ZnS nanostructures. <i>Materials Today: Proceedings</i> , 2021 , 43, 3762-3765	1.4	3
21	Tuning of structural and optical properties and defect induced photoluminescence on Ni-doped Cd _{0.9} Zn _{0.1} S nanoparticles. <i>Surfaces and Interfaces</i> , 2019 , 14, 215-221	4.1	2
20	Doping induced structural, band gap and photoluminescence properties of Cd _{0.9} Zn _{0.1} CoxS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 7389-7397	2.1	2
19	Influence of Mn doping on structural, optical and photoluminescence properties of Cd _{0.98} Co _{0.02} S thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 1791-1798	2.1	2
18	Influence of Ni ²⁺ ions on the structural, morphological, photoluminescence, photo-catalytic and anti-bacterial studies of Cd _{0.9} Zn _{0.1} S nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14310	2.1	2

17	Role of Fe concentration on structure, morphology, energy gap and photoluminescence properties of Zn _{0.96} Mn _{0.04} O nanoparticles by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5748-5757	2.1	2
16	Ni and Mn simultaneously doped ZnO nanoparticles under Ar ambiance: Structural and optical characterization. <i>Surfaces and Interfaces</i> , 2019 , 15, 148-156	4.1	2
15	Fine-tuning of energy gap, FTIR, photoluminescence and photocatalytic behavior of Centella asiatica extract mediated Mn/Mg doped ZnO nanostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17066-17077	2.1	1
14	Enhanced optical, antibacterial and photocatalytic performance by Sn substitution in Zn _{0.97} Mn _{0.03} O nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12186-12196	2.1	1
13	Impact of oxygen vacancies on optical, electrical and antibacterial studies of Mn/Sn codoped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14935-14944	2.1	1
12	Tuning of energy gap and photoluminescence behaviour of Zn _{0.96} Ni _{0.04} O nanostructure by Cr substitution. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 3098-3107	2.1	1
11	Investigation on microstructure, energy gap, photoluminescence and magnetic studies of Co and Cu in situ doped ZnO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 9702-9720	2.1	1
10	Crystallographic, Energy Gap, Photoluminescence and Photo-Catalytic Investigation of Cu Doped Cd _{0.9} Zn _{0.1} S Nanostructures by Co-precipitation Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	1
9	Effect of Sn doping on electrical and antibacterial performance of Zn _{0.96-x} Mn _{0.04} O nanoparticles by bio-synthesis method. <i>Materials Research Express</i> , 2018 , 5, 065026	1.7	1
8	Phyto-assisted Synthesis of Mn and Mg Co-doped ZnO Nanostructures Using Carica papaya Leaf Extract for Photocatalytic Applications. <i>BioNanoScience</i> , 1	3.4	1
7	Enhanced orange emission of Zn _{0.98-x} Mn _{0.02} CoxS (x = 0.02) quantum dots. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 160, 110370	3.9	1
6	Impact of size and defects on structure, optical and photoluminescence properties of Ni-doped SnO ₂ nanoparticles co-doped with Cu. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 18759-18766	2.1	0
5	Crystal structure, energy gap and photoluminescence investigation of Mn ²⁺ /Cr ³⁺ -doped ZnS nanostructures by precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 23174-23188	2.1	0
4	Influence of Cr doping on the structural, optical, magnetic, and photoluminescence behavior of Zn _{0.96-x} Ni _{0.04} Cr _x O nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 4258-4271	2.1	0
3	Role of oxygen vacancies on optical, structural and photoluminescence properties of Sn _{0.97} Cr _{0.03} O ₂ nanoparticles co-doped with Cu. <i>Materials Research Express</i> , 2019 , 6, 0850h5	1.7	
2	Optimization of precursor based on optical, structural and magnetic properties of Cu-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 8108-8117	2.1	
1	Band gap tailoring, structural and morphological properties of Zn _{0.98-x} Mn _{0.02} CuxO (0 ≤ x ≤ 0.05) nanopowders by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 4113-4121	2.1	1