

# Dr S Kumaran

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enhanced orange emission of Zn <sub>0.98</sub> Mn <sub>0.02</sub> CoxS (x = 00.02) quantum dots. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 160, 110370	3.9	1
87	Enhanced Photo-Catalytic and Antibacterial Properties of Ni-Doped CdZnS Nanostructures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2021</b> , 32, 1-14	3.2	3
86	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> , <b>2021</b> , 32, 9702-9720 <sup>1</sup>	2.1	1
85	Influence of Ni <sup>2+</sup> ions on the structural, morphological, photoluminescence, photo-catalytic and anti-bacterial studies of Cd <sub>0.9</sub> Zn <sub>0.1</sub> S nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 14310	2.1	2
84	Influence of defects on the structural, optical, photoluminescence and magnetic properties of Cr/Mn dual doped ZnO nanostructures. <i>Chemical Physics Impact</i> , <b>2021</b> , 2, 100019	1.6	4
83	Optical and structural properties of Mn/Cu doped ZnS nanostructures. <i>Materials Today: Proceedings</i> , <b>2021</b> , 43, 3762-3765	1.4	3
82	Crystal structure, energy gap and photoluminescence investigation of Mn <sup>2+</sup> /Cr <sup>3+</sup> -doped ZnS nanostructures by precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 23174-23188	2.1	0
81	Structural, energy gap tuning, photoluminescence and magnetic properties of Sn-doped Zn <sub>0.96</sub> Ni <sub>0.04</sub> O nanostructures. <i>Journal of Luminescence</i> , <b>2021</b> , 238, 118258	3.8	4
80	Influence of Cr doping on the structural, optical, magnetic, and photoluminescence behavior of Zn <sub>0.96</sub> Ni <sub>0.04</sub> Cr <sub>x</sub> O nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 4258-4271 <sup>0</sup>	2.1	0
79	Structural, optical and antibacterial investigation of La, Cu dual doped ZnO nanoparticles prepared by co-precipitation method. <i>Materials Science and Engineering C</i> , <b>2020</b> , 108, 110387	8.3	29
78	Structural, magnetic and photoluminescence behavior of Ni/Fe doped ZnO nanostructures prepared by co-precipitation method. <i>Optik</i> , <b>2020</b> , 202, 163714	2.5	12
77	Biosynthesis, structural, photoluminescence and photocatalytic performance of Mn/Mg dual doped ZnO nanostructures using Ocimum tenuiflorum leaf extract. <i>Optik</i> , <b>2020</b> , 208, 164556	2.5	10
76	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> , <b>2019</b> , 30, 17066-17077	2.1	1
75	Impact of size and defects on structure, optical and photoluminescence properties of Ni-doped SnO <sub>2</sub> nanoparticles co-doped with Cu. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 18759-18766	2.1	0
74	Enhanced optical, antibacterial and photocatalytic performance by Sn substitution in Zn <sub>0.97</sub> Mn <sub>0.03</sub> O nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 12186-12196 <sup>1</sup>	2.1	1
73	Role of defects in optical, photoluminescence and magnetic properties of Zn <sub>0.96</sub> Ni <sub>0.04</sub> Cr <sub>x</sub> O nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 803, 240-249	5.7	5
72	Role of oxygen vacancies on optical, structural and photoluminescence properties of Sn <sub>0.97</sub> Cr <sub>0.03</sub> O <sub>2</sub> nanoparticles co-doped with Cu. <i>Materials Research Express</i> , <b>2019</b> , 6, 0850h5	1.7	

71	Tuning of structural and optical properties and defect induced photoluminescence on Ni-doped Cd <sub>0.9</sub> Zn <sub>0.1</sub> S nanoparticles. <i>Surfaces and Interfaces</i> , <b>2019</b> , 14, 215-221	4.1	2
70	Ni and Mn simultaneously doped ZnO nanoparticles under Ar ambiance: Structural and optical characterization. <i>Surfaces and Interfaces</i> , <b>2019</b> , 15, 148-156	4.1	2
69	Tuning of energy gap, structural, FTIR and photoluminescence examination of Ni, Sn dual doped ZnO nanoparticles. <i>Materials Research Express</i> , <b>2019</b> , 6, 045006	1.7	7
68	Structural, photoluminescence and magnetic properties of Cu-doped SnO <sub>2</sub> nanoparticles co-doped with Co. <i>Optics and Laser Technology</i> , <b>2019</b> , 112, 458-466	4.2	18
67	Enhanced blue-light emission on Cd <sub>0.9-x</sub> Zn <sub>0.1</sub> Cr <sub>x</sub> S(0 ≤ x ≤ 0.05) quantum dots. <i>Ceramics International</i> , <b>2019</b> , 45, 3833-3838	5.1	20
66	Influence of Co <sup>2+</sup> on electrical and optical behavior of Mn <sup>2+</sup> -doped ZnS quantum dots. <i>Optics and Laser Technology</i> , <b>2018</b> , 103, 109-117	4.2	24
65	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> , <b>2018</b> , 120, 183-189	3.9	24
64	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> , <b>2018</b> , 29, 14935-14944	2.1	1
63	Effect of Sn doping on electrical and antibacterial performance of Zn <sub>0.96-x</sub> Mn <sub>0.04</sub> O nanoparticles by bio-synthesis method. <i>Materials Research Express</i> , <b>2018</b> , 5, 065026	1.7	1
62	Investigation of Ni influence on structural and band gap tuning of Zn <sub>0.98</sub> Mn <sub>0.02</sub> S quantum dots by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 8309-8315	2.1	12
61	Investigation of microstructure, electrical and photoluminescence behaviour of Ni-doped Zn <sub>0.96</sub> Mn <sub>0.04</sub> O nanoparticles: Effect of Ni concentration. <i>Optical Materials</i> , <b>2017</b> , 69, 382-391	3.3	10
60	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> , <b>2017</b> , 28, 12995-13005	2.1	4
59	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> , <b>2017</b> , 27, 1572-1582	3.2	8
58	Tuning of energy gap and photoluminescence behaviour of Zn <sub>0.96</sub> Ni <sub>0.04</sub> O nanostructure by Cr substitution. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 3098-3107	2.1	1
57	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> , <b>2016</b> , 26, 950-961	3.2	4
56	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> , <b>2016</b> , 27, 12021-12027	2.1	3
55	Microstructure, optical and structural characterization of Cd <sub>0.98</sub> Fe <sub>0.02</sub> S thin films co-doped with Zn by chemical bath deposition method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2016</b> , 78, 56-64	3	5
54	Doping induced structural, band gap and photoluminescence properties of Cd <sub>0.9-x</sub> Zn <sub>0.1</sub> CoxS nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 7389-7397	2.1	2

53	Tuning of band gap and photoluminescence properties of Zn doped Cu <sub>2</sub> S thin films by CBD method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 2042-2048	2.1	4
52	Crystallographic, Structural and Band Gap Tailoring of Zn <sub>0.98</sub> Mn <sub>0.02</sub> S Quantum Dots Co-Doped with Cu by Co-Precipitation Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2016</b> , 26, 563-571	3.2	12
51	Enhanced Room Temperature Ferromagnetism by Fe Doping in Zn <sub>0.96</sub> Cu <sub>0.04</sub> O Diluted Magnetic Semiconductors. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 976-982	1.9	6
50	Investigation of optical, structural, FTIR and magnetic properties of Sn substituted Zn <sub>0.98</sub> Mn <sub>0.02</sub> O nanoparticles. <i>Ceramics International</i> , <b>2016</b> , 42, 5921-5931	5.1	14
49	Band gap tailoring and yellow band emission of Cd <sub>0.9</sub> Mn <sub>x</sub> Zn <sub>0.15</sub> (x=0 to 0.05) nanoparticles: Influence of Mn concentration. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 41, 282-290	4.3	21
48	Influence of Mn doping on structural, optical and photoluminescence properties of Cd <sub>0.98</sub> Co <sub>0.02</sub> S thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 1791-1798	2.1	2
47	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> , <b>2016</b> , 27, 6800-6808 <sup>7</sup>	2.1	7
46	Role of Fe concentration on structure, morphology, energy gap and photoluminescence properties of Zn <sub>0.96</sub> Mn <sub>0.04</sub> O nanoparticles by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 5748-5757	2.1	2
45	Structural, optical, dielectric and antibacterial studies of Mn doped Zn <sub>0.96</sub> Cu <sub>0.04</sub> O nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 144, 1-7	4.4	42
44	Structural, morphological and spectroscopic investigation of Mn doped Zn <sub>0.96</sub> Cu <sub>0.04</sub> O nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 1225-1233	2.1	6
43	Effect of Ni doping on electrical, photoluminescence and magnetic behavior of Cu doped ZnO nanoparticles. <i>Journal of Luminescence</i> , <b>2015</b> , 162, 97-103	3.8	64
42	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> , <b>2015</b> , 74, 93-100	3	41
41	Investigation of optical and structural properties of Fe, Cu co-doped SnO <sub>2</sub> nanoparticles. <i>Superlattices and Microstructures</i> , <b>2015</b> , 83, 507-520	2.8	12
40	Influence of Cu doping on the microstructure, optical properties and photoluminescence features of Cd <sub>0.9</sub> Zn <sub>0.15</sub> nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 72, 111-119 <sup>3</sup>		15
39	Microstructural and band gap exploration on Ni-doped SnO <sub>2</sub> nanoparticles co-doped with Cu. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 3989-3996	2.1	9
38	Microstructural, crystallographic and optical characterizations of Cu-doped ZnO nanoparticles co-doped with Ni. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 4298-4307	2.1	13
37	Band gap tailoring and enhanced visible emission by two-step annealing in Zn <sub>0.94</sub> Cu <sub>0.04</sub> Cr <sub>0.02</sub> O nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 9667-9679	2.1	5
36	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> , <b>2015</b> , 26, 1533-1542	2.1	29

35	Electrical, dielectric, photoluminescence and magnetic properties of ZnO nanoparticles co-doped with Co and Cu. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 374, 61-66	2.8	61
34	Optimization of precursor based on optical, structural and magnetic properties of Cu-doped ZnO nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 8108-8117	2.1	
33	Enhanced room temperature ferromagnetism and photoluminescence behavior of Cu-doped ZnO co-doped with Mn. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2015</b> , 69, 354-359	3	20
32	Defect related microstructure, optical and photoluminescence behaviour of Ni, Cu co-doped ZnO nanoparticles by co-precipitation method. <i>Optical Materials</i> , <b>2015</b> , 42, 124-131	3.3	55
31	Band gap tailoring, structural and morphological behavior of Zn <sub>0.96</sub> Co <sub>0.04</sub> Cu <sub>x</sub> O (0 ≤ x ≤ 0.10) alloys by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 2004-2015	2.1	10
30	Effect of heat-treatment on the structural and optical properties of Cu <sub>2</sub> S thin films deposited by CBD method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 824-831	2.1	9
29	Composition dependent optical, structural and photoluminescence behaviour of CdS:Al thin films by chemical bath deposition method. <i>Ceramics International</i> , <b>2014</b> , 40, 10657-10666	5.1	31
28	Influence of Co-doping on the structural, optical and morphological properties of Zn <sub>0.96</sub> Mn <sub>0.04</sub> O nanoparticles by sol-gel method. <i>Optical Materials</i> , <b>2014</b> , 36, 797-803	3.3	19
27	Microstructure, optical and FTIR studies of Ni, Cu co-doped ZnO nanoparticles by co-precipitation method. <i>Optical Materials</i> , <b>2014</b> , 37, 671-678	3.3	72
26	Structural and optical properties of Y, Cu co-doped ZnO nanoparticles by sol-gel method. <i>Superlattices and Microstructures</i> , <b>2014</b> , 74, 247-260	2.8	18
25	Structural, optical and morphological properties of La, Cu co-doped SnO <sub>2</sub> nanocrystals by co-precipitation method. <i>Optical Materials</i> , <b>2014</b> , 37, 425-432	3.3	23
24	Structural and optical properties of Cd <sub>1-x</sub> Zn <sub>x</sub> S (0 ≤ x ≤ 0.3) nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 3308-3317	2.1	15
23	Modifications in band gap and optical properties of Zn <sub>0.96</sub> Nd <sub>0.04</sub> Cu <sub>x</sub> O (x = 0, 0.05, 0.1 and 0.15) nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 70, 133-141	2.3	3
22	Zn <sub>0.91</sub> Cu <sub>0.04</sub> M <sub>0.05</sub> O (M=Ni, Co, Cr) nanocrystals: Structural study and energy gap tailoring. <i>Materials Letters</i> , <b>2014</b> , 131, 302-305	3.3	12
21	Microstructure and band gap tailoring of Zn <sub>0.96</sub> Cu <sub>0.04</sub> CoxO (0 ≤ x ≤ 0.04) nanoparticles prepared by co-precipitation method. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 606-612	5.7	28
20	Tuning of energy gap, microstructure, optical and structural properties of Cr doped Zn <sub>0.96</sub> Cu <sub>0.04</sub> O nanoparticles. <i>Powder Technology</i> , <b>2014</b> , 258, 157-164	5.2	32
19	Effect of Cr-doping on dielectric, electric and magnetic properties of Zn <sub>0.96</sub> Cu <sub>0.04</sub> O nanopowders. <i>Powder Technology</i> , <b>2014</b> , 268, 80-85	5.2	20
18	Zn <sub>0.96</sub> Cu <sub>0.04</sub> FexO (0 ≤ x ≤ 0.04) alloys [Optical and structural studies. <i>Superlattices and Microstructures</i> , <b>2014</b> , 69, 53-64	2.8	19

17	Temperature-induced modification on the structural, optical and morphological properties of Zn <sub>0.96</sub> Cu <sub>0.04</sub> O nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2014</b> , 25, 398-407	2.1	3
16	Effect of solvents on the structural, optical and morphological properties of Zn <sub>0.96</sub> Cu <sub>0.04</sub> O nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4050-4059	2.1	11
15	Effect of deposition time on structural, optical and photoluminescence properties of Cd <sub>0.9</sub> Zn <sub>0.1</sub> S thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 2858-2865	2.1	16
14	Cu-doping effect on the structural, optical and photoluminescence properties of Sn <sub>0.98</sub> Cr <sub>0.02</sub> O <sub>2</sub> nanoparticles by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 2581-2592	2.1	10
13	Size Dependent Structural and Optical Properties of Cd <sub>0.9</sub> Zn <sub>0.1</sub> S Thin Films. <i>Physics Procedia</i> , <b>2013</b> , 49, 137-144		10
12	pH-induced modification on the structural, optical and morphological properties of Zn <sub>0.94</sub> Ni <sub>0.04</sub> Mn <sub>0.02</sub> O nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 5189-5198 <sup>3</sup>	2.1	3
11	Influence of Yttrium on optical, structural and photoluminescence properties of ZnO nanopowders by sol-gel method. <i>Optical Materials</i> , <b>2013</b> , 35, 2241-2249	3.3	40
10	Nanostructure, optical and photoluminescence properties of Zn <sub>1-x</sub> Ni <sub>x</sub> O nanoclusters by co-precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 1069-1080	2.1	14
9	Effect of deposition time on optical, structural and photoluminescence properties of Cd <sub>0.6</sub> Co <sub>0.4</sub> S thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 2277-2286	2.1	6
8	Band gap tailoring, structural and morphological properties of Zn <sub>0.98-x</sub> Mn <sub>0.02</sub> Cu <sub>x</sub> O (0 ≤ x ≤ 0.05) nanopowders by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2013</b> , 24, 4113-4121 <sup>2,1</sup>		
7	Size dependent structural, optical and morphological properties of ZnS:Cu thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 811-815	2.1	17
6	Structural, optical, FTIR and photoluminescence studies of CdS <sub>1-x</sub> Se <sub>x</sub> thin films by chemical bath deposition method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 1647-1656	2.1	14
5	Structural, optical, FTIR and photoluminescence properties of Zn <sub>0.96-x</sub> Co <sub>0.04</sub> Cu <sub>x</sub> O (x=0.03, 0.04 and 0.05) nanopowders. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 3448-3456	2.8	33
4	Structural, FTIR and photoluminescence studies of Cu doped ZnO nanopowders by co-precipitation method. <i>Optical Materials</i> , <b>2012</b> , 34, 1946-1953	3.3	35 <sup>1</sup>
3	Structural, optical and photoluminescence studies of heavily Mn-doped ZnO nanoparticles annealed under Ar atmosphere. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2012</b> , 23, 1393-1401 <sup>2,1</sup>		26
2	Crystallographic, Energy Gap, Photoluminescence and Photo-Catalytic Investigation of Cu Doped Cd <sub>0.9</sub> Zn <sub>0.1</sub> S Nanostructures by Co-precipitation Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	1
1	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