

Sanjeev Kumar

List of Publications by Year in descending order

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101
papers

1,278
citations

361413

20
h-index

477307

29
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102
all docs

102
docs citations

102
times ranked

1175
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature ferromagnetism in Ni doped ZnS nanoparticles. Journal of Alloys and Compounds, 2013, 554, 357-362.	5.5	95
2	Ultra-thin metamaterial perfect absorbers for single-/dual-/multi-band microwave applications. IET Microwaves, Antennas and Propagation, 2020, 14, 390-396.	1.4	58
3	A highly efficient bilayer graphene/ZnO/silicon nanowire based heterojunction photodetector with broadband spectral response. Nanotechnology, 2020, 31, 405205.	2.6	56
4	Enhanced Optoelectronic Properties of Bilayer Graphene/HgCdTe-Based Single- and Dual-Junction Photodetectors in Long Infrared Regime. IEEE Nanotechnology Magazine, 2019, 18, 781-789.	2.0	45
5	Structural, optical and magnetic characterization of Ru doped ZnO nanorods. Journal of Alloys and Compounds, 2014, 588, 705-709.	5.5	43
6	Graphene-based tunable multi-band metamaterial polarization-insensitive absorber for terahertz applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 11878-11886.	2.2	38
7	Magnetic and structural characterization of transition metal co-doped CdS nanoparticles. Applied Nanoscience (Switzerland), 2012, 2, 127-131.	3.1	36
8	Enhanced magnetism in Cr-doped ZnO nanoparticles with nitrogen co-doping synthesized using sol-gel technique. Applied Nanoscience (Switzerland), 2015, 5, 367-372.	3.1	36
9	Multiferroic effects in MFe ₂ O ₄ /BaTiO ₃ (M=Mn, Co, Ni, Zn) nanocomposites. Journal of Alloys and Compounds, 2017, 709, 344-355.	5.5	36
10	Bilayer graphene/HgCdTe based very long infrared photodetector with superior external quantum efficiency, responsivity, and detectivity. RSC Advances, 2018, 8, 39579-39592.	3.6	34
11	Observation of Shubnikov-de Haas Oscillations, Planar Hall Effect, and Anisotropic Magnetoresistance at the Conducting Interface of EuO ₃ /KTaO ₃ . Advanced Quantum Technologies, 2021, 4, .	3.9	33
12	Effect of Ni-doping concentration on structural, optical and magnetic properties of CdSe nanorods. Materials Science in Semiconductor Processing, 2014, 26, 1-6.	4.0	32
13	Investigations on doping induced changes in structural, electronic structure and magnetic behavior of spintronic Cr-ZnS nanoparticles. Superlattices and Microstructures, 2015, 83, 785-795.	3.1	32
14	Investigating surface properties of OHNS die steel after electrical discharge machining with manganese powder mixed in the dielectric. International Journal of Advanced Manufacturing Technology, 2010, 50, 625-633.	3.0	28
15	Performance evaluation of the WEDM process of aeronautics super alloy. Materials and Manufacturing Processes, 2018, 33, 1793-1808.	4.7	27
16	An Ultrathin Compact Polarization-Sensitive Triple-band Microwave Metamaterial Absorber. Journal of Electronic Materials, 2021, 50, 1506-1513.	2.2	25
17	Gd doping induced weak ferromagnetic ordering in ZnS nanoparticles synthesized by low temperature co-precipitation technique. Materials Chemistry and Physics, 2017, 186, 124-130.	4.0	23
18	Structural and optical properties of Na doped ZnO nanocrystalline thin films synthesized using sol-gel spin coating technique. Journal of Sol-Gel Science and Technology, 2013, 67, 50-55.	2.4	21

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19	Structural, magnetic and electronic properties of iron doped barium strontium titanate. RSC Advances, 2016, 6, 112363-112369.	3.6	21
20	Investigations on structural, optical and magnetic properties of Fe and Dy co-doped ZnO nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 3850-3855.	2.2	21
21	Electrochemical synthesis of copper nanowires in anodic alumina membrane and their impedance analysis. Superlattices and Microstructures, 2011, 50, 698-702.	3.1	18
22	Structural, optical, and magnetic characterization of Co and N co-doped ZnO nanopowders. Journal of Materials Science, 2013, 48, 2618-2623.	3.7	18
23	Investigations on multiferroic properties of lead free (1-x)BCZT-xCZFMo based particulate ceramic composites. Solid State Sciences, 2020, 108, 106380.	3.2	17
24	Synthesis and characterization of Ni-doped CdSe nanoparticles: magnetic studies in 300-100 K temperature range. Applied Nanoscience (Switzerland), 2012, 2, 437-443.	3.1	16
25	Effects of annealing on structural and magnetic properties of template synthesized cobalt nanowires useful as data storage and nano devices. Journal of Materials Science: Materials in Electronics, 2014, 25, 124-127.	2.2	16
26	Flattening of free energy profile and enhancement of energy storage efficiency near morphotropic phase boundary in lead-free BZT-xBCT. Journal of Alloys and Compounds, 2021, 873, 159824.	5.5	16
27	Synthesis and characterisation of selenium nanowires using template synthesis. Journal of Experimental Nanoscience, 2009, 4, 341-346.	2.4	15
28	Tuning ferromagnetism in zinc oxide nanoparticles by chromium doping. Applied Nanoscience (Switzerland), 2015, 5, 975-981.	3.1	15
29	Effect of sintering temperature on structure and properties of GaFeO ₃ . Journal of Alloys and Compounds, 2018, 737, 646-654.	5.5	15
30	Magnetoelectric coupling enhancement in lead-free BCTZ-xNZFO composites. Journal of Materials Science: Materials in Electronics, 2021, 32, 17512-17523.	2.2	15
31	Fabrication and electrical characterization of highly ordered copper nanowires. Applied Nanoscience (Switzerland), 2012, 2, 7-13.	3.1	14
32	Improved magnetism in Cr doped ZnS nanoparticles with nitrogen co-doping synthesized using chemical co-precipitation technique. Journal of Materials Science: Materials in Electronics, 2015, 26, 9158-9163.	2.2	14
33	Gd doping effect on structural, electrical and magnetic properties of ZnO thin films synthesized by sol-gel spin coating technique. Electronic Materials Letters, 2017, 13, 129-135.	2.2	13
34	Significant reduction in the leakage current of Cr-doped GaFeO ₃ synthesized by sol-gel method. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	13
35	Enhanced pyroelectric figure of merits in Sr and Zr co-doped porous BaTiO ₃ ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 2337-2346.	2.2	13
36	Room temperature magnetism in Ni-doped CdSe nanoparticles. Journal of Materials Science: Materials in Electronics, 2011, 22, 901-904.	2.2	11

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37	Structural, dielectric and magnetic characterization of large scale template synthesized Gd doped BiFeO ₃ nanowires. Journal of Materials Science: Materials in Electronics, 2013, 24, 2112-2115.	2.2	11
38	Relaxor dielectric behavior in BaTiO ₃ substituted BiFeO ₃ –PbTiO ₃ multiferroic system. Journal of Materials Science: Materials in Electronics, 2017, 28, 10420-10426.	2.2	11
39	Large-scale synthesis of uniform nickel nanowires and their characterisation. Journal of Experimental Nanoscience, 2010, 5, 126-133.	2.4	10
40	Room temperature ferromagnetic behavior of Eu doped Cd ^{1-x} Zn ^x S nanoparticles. Journal of Materials Science: Materials in Electronics, 2011, 22, 523-526.	2.2	10
41	Room temperature ferromagnetism in solvothermally synthesized pure CdSe and CdSe:Ni nanorods. Journal of Materials Science: Materials in Electronics, 2011, 22, 1456-1459.	2.2	10
42	Investigation of structural, dielectric, and magnetoelectric properties of K _{0.5} Na _{0.5} NbO ₃ –MnFe ₂ O ₄ lead free composite system. Journal of Alloys and Compounds, 2021, 857, 158251.	5.5	10
43	On-Demand Reconfigurable WiMAX/WLAN UWB-X Band High Isolation 2 nd –2 MIMO Antenna for Imaging Applications. IETE Journal of Research, 2023, 69, 5993-6005.	2.6	10
44	Extraction of Trench Capacitance and Reverse Recovery Time of InGaAs Self-Switching Diode. IEEE Nanotechnology Magazine, 2019, 18, 925-931.	2.0	9
45	Quad-band polarization sensitive terahertz metamaterial absorber using Gemini-shaped structure. Results in Optics, 2022, 8, 100254.	2.0	9
46	Structural, optical and magnetic characterization of ZnO nanorods synthesized using hydrothermal technique at low temperature. Journal of Sol-Gel Science and Technology, 2014, 70, 506-510.	2.4	8
47	Dual Band Graphene Based Metamaterial Absorber for Terahertz Applications. , 2018, , .		8
48	On the preparation and asymmetric electric transport behavior of conical channels in polyethylene terephthalate. Radiation Measurements, 2003, 36, 757-760.	1.4	7
49	Electric Discharge Machining of 10 vol% Al ₂ O ₃ /Al Metal Matrix Composite - An Experimental Study. Materials Science Forum, 0, 751, 9-19.	0.3	7
50	I-shaped metamaterial antenna for X-band applications. , 2017, , .		7
51	Enhancement in the piezoelectric properties in lead-free BZT-xBCT dense ceramics. Journal of Materials Science: Materials in Electronics, 2020, 31, 21651-21660.	2.2	7
52	RF analysis of intercalated graphene nanoribbon-based global-level interconnects. Journal of Computational Electronics, 2020, 19, 1002-1013.	2.5	7
53	Critical behavior of relaxor Pb _{0.91} La _{0.09} Zr _{0.65} Ti _{0.35} O ₃ : Interplay between polar nano regions, electrocaloric and energy storage response. Journal of Alloys and Compounds, 2021, 884, 161067.	5.5	7
54	Large-scale synthesis of Au–Ni alloy nanowires using electrochemical deposition. Applied Nanoscience (Switzerland), 2013, 3, 101-107.	3.1	6

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55	Analysis of nonlinear characteristics of a graphene based four-terminal ballistic rectifier using a drift-diffusion model. <i>Nanoscale Advances</i> , 2019, 1, 4119-4127.	4.6	6
56	Magnetoelectric coupling susceptibility in novel lead-free $A\bar{3}$ type multiferroic particulate composites of $(1-x)\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ - $(x)\text{CoCr}_0.4\text{Fe}_1.6\text{O}_4$. <i>Materials Chemistry and Physics</i> , 2022, 282, 126004.	4.0	6
57	Electrodeless growth of silver iodide nanowires in a polycarbonate membrane using chemical reaction. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 244-247.	2.2	5
58	Optical studies of electrochemically synthesized CdS nanowires. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 335-338.	2.2	5
59	A Highly Efficient Bilayer Graphene-HgCdTe Heterojunction Based $\text{p}^+ \text{-n}$ Photodetector for Long Wavelength Infrared (LWIR). , 2018, , .		5
60	The role of a weakly coordinating thioether group in ligation controlled molecular self-assemblies and their inter-conversions in Ni(ii) complexes of l-methionine derived ligand. <i>New Journal of Chemistry</i> , 2019, 43, 11222-11232.	2.8	5
61	Effect of polar nano region dynamics on pyroelectric energy conversion efficiency of doped BaTiO_3 . <i>Journal of Alloys and Compounds</i> , 2021, 857, 157605.	5.5	5
62	Enhanced room temperature multiferroic behaviour of Ni-doped $\text{Na}_0.5\text{Bi}_0.5\text{TiO}_3$ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10255-10265.	2.2	5
63	Enhanced magnetoelectric coupling in environmental friendly lead-free $\text{Ni}_0.8\text{Zn}_0.2\text{Fe}_2\text{O}_4/\text{Ba}_0.85\text{Ca}_0.15\text{Zr}_0.1\text{Ti}_0.9\text{O}_3$ laminate composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25481-25492.	2.2	5
64	Thermoelectric rectification in a graphene-based triangular ballistic rectifier (G-TBR). <i>Journal of Computational Electronics</i> , 2021, 20, 2308-2316.	2.5	5
65	MEASUREMENT OF AVERAGE ETCHED PORE RADIUS IN ION TRACK MEMBRANES THROUGH CONDUCTOMETRIC TECHNIQUE. <i>Modern Physics Letters B</i> , 2008, 22, 2993-2998.	1.9	4
66	Chemical Synthesis of AgCl Microstructures Using Etched Ion Track Polycarbonate Membranes. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 1242-1245.	0.6	4
67	Large scale synthesis of polyaniline nanowires and their characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 1260-1262.	2.2	4
68	Structural and magnetic characterization of electrochemically deposited Co/Cu multilayer nanowires. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1086-1089.	2.2	4
69	Enhancement of room temperature ferromagnetism in $\text{Cd}_x\text{Ni}_x\text{Se}$ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 2267-2272.	2.2	4
70	Strongly enhanced polarization and dielectric breakdown strength of PZT95/5 by doping of Ce^{4+} and Nb^{5+} . <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13104-13110.	2.2	4
71	InGaAs self-switching diode-based THz bridge rectifier. <i>Semiconductor Science and Technology</i> , 2021, 36, 075017.	2.0	4
72	Enhanced dielectric response under applied magnetic field in $A\bar{3}$ particulate composites of $(1-x)\text{PbZr}_0.95\text{Ti}_0.05\text{O}_3$ - $(x)\text{Ni}_0.7\text{Zn}_0.3\text{Fe}_2\text{O}_4$. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	4

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73	The modified magnetodielectric response in KNN-CZFMO based particulate multiferroic composite system. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050024.	2.4	4
74	Unique Signatures of Rashba Effect in Angle Resolved Magnetoresistance. <i>Advanced Quantum Technologies</i> , 0, , 2100105.	3.9	4
75	Investigations on magnetoelectric response in binary ferroelectric {0.94Na0.5Bi0.5TiO3 (NBT)-0.06Ba0.85Sr0.15Zr0.1Ti0.9O3 (BSZT)}-ferrimagnetic (NiFe2O4) particulate composites. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	2.3	4
76	Self-biased characteristics of NZCF/BCZT layered magnetoelectric composites: A novel coupling paradigm in magnetoelectricity. <i>Materials Chemistry and Physics</i> , 2022, 287, 126302.	4.0	4
77	Synthesis and Characterization of ZnO Nanoparticles Using Combustion Method. <i>AIP Conference Proceedings</i> , 2011, , .	0.4	3
78	III-V heterostructure based three terminal thermal rectifier. , 2017, , .		3
79	Ultra-thin and Dual Band Metamaterial Absorber for Terahertz Applications. , 2018, , .		3
80	Temperature dependent structural and electrical analysis of Cr-doped multiferroic GaFeO ₃ ceramics. <i>Materials Research Express</i> , 2019, 6, 115704.	1.6	3
81	Crystal structure correlation of ferroelectric and dielectric properties of Nb doped PZT95/5. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 5014-5020.	2.2	3
82	Insights on improved room temperature ferromagnetism in chemically co-precipitated Ru-doped ZnS nanopowders. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	3
83	Thermoelectric Effect in Graphene-Based Three-Terminal Junction. <i>IEEE Nanotechnology Magazine</i> , 2021, 20, 733-738.	2.0	3
84	Bilayer Graphene/HgCdTe Based Self-powered Mid-wave IR nBn Photodetector. , 2019, , .		3
85	Drift diffusion modelling of three branch junction (TBR) based nano-rectifier. , 2019, , .		3
86	EFFECT OF MICROWAVE IRRADIATION ON COPPER NANOWIRES SYNTHESIZED BY ELECTROCHEMICAL DEPOSITION THROUGH ION TRACK MEMBRANES AS TEMPLATES. <i>Modern Physics Letters B</i> , 2007, 21, 1351-1356.	1.9	2
87	LARGE SCALE SYNTHESIS OF Ag ₂ S NANOWIRES AND THEIR ELECTRICAL CHARACTERIZATION. <i>International Journal of Nanoscience</i> , 2012, 11, 1250012.	0.7	2
88	An Experimental Study of the Phenomenon of Surface Alloying by EDM Process Using Inconel Tool Electrode. , 2013, , .		2
89	Impact of Powder-mixed Electrical Discharge Machining on Surface Hardness of AISI D3 Die Steel. , 2019, , .		2
90	Thermoelectric rectification in graphene based Y-junction. , 2022, 167, 207242.		2

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91	ELECTROLYTIC TRANSPORT THROUGH CYLINDRICAL ETCHED PORES IN POLYETHYLENE TEREPHTHALATE TRACK-ETCHED MEMBRANE. <i>Modern Physics Letters B</i> , 2008, 22, 1415-1421.	1.9	1
92	Large scale synthesis of uniform Au-Co alloy and multilayer nanowires using electrochemical deposition and their characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4530-4535.	2.2	1
93	Comparative radio-frequency and crosstalk analysis of carbon-based nano-interconnects. <i>IET Circuits, Devices and Systems</i> , 2021, 15, 493-503.	1.4	1
94	Electrochemical Deposition and Characterization of Cu-Ni Multilayer Nanowires. <i>Science of Advanced Materials</i> , 2012, 4, 1254-1257.	0.7	1
95	Microstructural tuning: A route towards realization of enhanced pyroelectric figure of merits of Sr and Zr doped barium titanate ceramics. <i>Materials Today Communications</i> , 2022, 31, 103302.	1.9	1
96	Strain mediated magnetoelectric coupling response in Ba _{0.85} Ca _{0.15} Ti _{0.9} Zr _{0.1} O ₃ -CoFe _{1.95} Mg _{0.05} O ₄ particulate multiferroic composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 14264-14280.	2.2	1
97	LARGE-SCALE SYNTHESIS OF UNIFORM SILVER BROMIDE NANOWIRES USING ION TRACK MEMBRANE AS TEMPLATE. <i>Functional Materials Letters</i> , 2010, 03, 259-262.	1.2	0
98	Electrochemical synthesis of highly crystalline copper nanowires. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0
99	Structural, thermal and electrical characterizations of multiwalled carbon nanotubes and polyaniline composite. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
100	Effect of Zn doping on structural and ferroelectric properties of GaFeO ₃ for futuristic spintronic applications. , 2018, , .		0
101	A Highly Efficient and Low Noise n ⁺ -ZnO/p-Si Heterojunction Based UV Detector. , 2021, , .		0