

Sukhen Das

List of Publications by Year in descending order

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226
papers

5,429
citations

87888

38
h-index

118850

62
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229
all docs

229
docs citations

229
times ranked

5808
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of zinc oxide nanoparticles using Hibiscus subdariffa leaf extract: effect of temperature on synthesis, anti-bacterial activity and anti-diabetic activity. RSC Advances, 2015, 5, 4993-5003.	3.6	450
2	Beneficial role of carbon nanotubes on mustard plant growth: an agricultural prospect. Journal of Nanoparticle Research, 2011, 13, 4519-4528.	1.9	211
3	Superior performances of in situ synthesized ZnO/PVDF thin film based self-poled piezoelectric nanogenerator and self-charged photo-power bank with high durability. Nano Energy, 2018, 44, 456-467.	16.0	202
4	Enhancement of \hat{I}^2 phase crystallization and dielectric behavior of kaolinite/halloysite modified poly(vinylidene fluoride) thin films. Applied Clay Science, 2014, 99, 149-159.	5.2	125
5	In situ synthesis and antibacterial activity of copper nanoparticle loaded natural montmorillonite clay based on contact inhibition and ion release. Colloids and Surfaces B: Biointerfaces, 2013, 108, 358-365.	5.0	104
6	Effect of in situ synthesized Fe_{2O_3} and Co_{3O_4} nanoparticles on electroactive \hat{I}^2 phase crystallization and dielectric properties of poly(vinylidene fluoride) thin films. Physical Chemistry Chemical Physics, 2015, 17, 1368-1378.	2.8	104
7	Effect of substitution of fly ash for quartz in triaxial kaolin-quartz-feldspar system. Journal of the European Ceramic Society, 2004, 24, 3169-3175.	5.7	100
8	Enhancement of electroactive \hat{I}^2 phase crystallization and dielectric constant of PVDF by incorporating GeO_2 and SiO_2 nanoparticles. Physical Chemistry Chemical Physics, 2015, 17, 22784-22798.	2.8	96
9	Biowaste crab shell-extracted chitin nanofiber-based superior piezoelectric nanogenerator. Journal of Materials Chemistry A, 2018, 6, 13848-13858.	10.3	95
10	XRD, HRTEM and magnetic properties of mixed spinel nanocrystalline Ni-Zn-Cu-ferrite. Journal of Alloys and Compounds, 2009, 473, 15-19.	5.5	90
11	Er^{3+}/Fe^{3+} Stimulated Electroactive, Visible Light Emitting, and High Dielectric Flexible PVDF Film Based Piezoelectric Nanogenerators: A Simple and Superior Self-Powered Energy Harvester with Remarkable Power Density. ACS Applied Materials & Interfaces, 2017, 9, 23048-23059.	8.0	90
12	Re-usable self-poled piezoelectric/piezocatalytic films with exceptional energy harvesting and water remediation capability. Nano Energy, 2020, 78, 105339.	16.0	90
13	Folic acid conjugated curcumin loaded biopolymeric gum acacia microsphere for triple negative breast cancer therapy in invitro and invivo model. Materials Science and Engineering C, 2019, 95, 204-216.	7.3	88
14	In situ synthesis of $Ni(OH)_2$ nanobelt modified electroactive poly(vinylidene fluoride) thin films: remarkable improvement in dielectric properties. Physical Chemistry Chemical Physics, 2015, 17, 13082-13091.	2.8	83
15	The role of cerium(III)/yttrium(III) nitrate hexahydrate salts on electroactive \hat{I}^2 phase nucleation and dielectric properties of poly(vinylidene fluoride) thin films. RSC Advances, 2015, 5, 28487-28496.	3.6	79
16	The effect of Sn(IV) on transformation of co-precipitated hydrated In(III) and Sn(IV) hydroxides to indium tin oxide (ITO) powder. Materials Letters, 2002, 56, 671-679.	2.6	78
17	Effect of Gd doping concentration and sintering temperature on structural, optical, dielectric and magnetic properties of hydrothermally synthesized ZnO nanostructure. Journal of Alloys and Compounds, 2017, 708, 231-246.	5.5	65
18	Enhanced electroactive \hat{I}^2 -phase nucleation and dielectric properties of PVdF-HFP thin films influenced by montmorillonite and $Ni(OH)_2$ nanoparticle modified montmorillonite. RSC Advances, 2016, 6, 21881-21894.	3.6	62

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19	Antimicrobial efficacy and biocompatibility study of copper nanoparticle adsorbed mullite aggregates. <i>Materials Science and Engineering C</i> , 2012, 32, 1897-1905.	7.3	61
20	Size engineered Cu-doped λ -MnO ₂ nanoparticles for exaggerated photocatalytic activity and energy storage application. <i>Materials Research Bulletin</i> , 2019, 115, 159-169.	5.2	58
21	High Prevalence of Asymptomatic Malaria in a Tribal Population in Eastern India. <i>Journal of Clinical Microbiology</i> , 2013, 51, 1439-1444.	3.9	54
22	Fluorescence turn-on and turn-off sensing of pesticides by carbon dot-based sensor. <i>New Journal of Chemistry</i> , 2019, 43, 12137-12151.	2.8	53
23	Effect of Fluorine Doping on Semiconductor to Metal-Like Transition and Optical Properties of Cadmium Oxide Thin Films Deposited by Sol-Gel Process. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 34, 173-179.	2.4	52
24	Effect of Gd ³⁺ and Al ³⁺ on optical and dielectric properties of ZnO nanoparticle prepared by two-step hydrothermal method. <i>Ceramics International</i> , 2017, 43, 6932-6941.	4.8	51
25	Tailoring of room temperature ferromagnetism and electrical properties in ZnO by Co (3d) and Gd (4f) element co-doping. <i>Journal of Alloys and Compounds</i> , 2017, 691, 739-749.	5.5	49
26	Synthesis and densification of magnesium aluminate spinel: effect of MgO reactivity. <i>Ceramics International</i> , 2003, 29, 915-918.	4.8	47
27	Nanocrystalline Mullite Synthesis at a Low Temperature: Effect of Copper Ions. <i>Journal of the American Ceramic Society</i> , 2009, 92, 748-751.	3.8	46
28	Enhanced broadband microwave reflection loss of carbon nanotube ensheathed Ni-Zn-Co-ferrite magnetic nanoparticles. <i>Materials Letters</i> , 2014, 120, 259-262.	2.6	46
29	Crystallinity mediated variation in optical and electrical properties of hydrothermally synthesized boehmite (³ -AlOOH) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 763, 749-758.	5.5	46
30	Highly Efficient and Durable Piezoelectric Nanogenerator and Photo-power cell Based on CTAB Modified Montmorillonite Incorporated PVDF Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4801-4813.	6.7	46
31	Electroactive and High Dielectric Folic Acid/PVDF Composite Film Rooted Simplistic Organic Photovoltaic Self-Charging Energy Storage Cell with Superior Energy Density and Storage Capability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24198-24209.	8.0	45
32	Antimicrobial and biocompatible fluorescent hydroxyapatite-chitosan nanocomposite films for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 300-307.	5.0	45
33	Magnetic and enhanced microwave absorption properties of nanoparticles of Li _{0.32} Zn _{0.26} Cu _{0.1} Fe _{2.32} O ₄ encapsulated in carbon nanotubes. <i>Materials Letters</i> , 2013, 95, 145-148.	2.6	44
34	Electrical and dielectric properties of sol-gel derived mullite doped with transition metals. <i>Materials Chemistry and Physics</i> , 2013, 138, 375-383.	4.0	43
35	Monitoring of intracellular nitric oxide in leishmaniasis: Its applicability in patients with visceral leishmaniasis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011, 79A, 35-45.	1.5	42
36	Improvement of electroactive λ phase nucleation and dielectric properties of WO ₃ -H ₂ O nanoparticle loaded poly(vinylidene fluoride) thin films. <i>RSC Advances</i> , 2015, 5, 62819-62827.	3.6	41

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37	Microstructural and phase evolution in metakaolin geopolymers with different activators and added aluminosilicate fillers. <i>Journal of Molecular Structure</i> , 2015, 1098, 110-118.	3.6	40
38	Magnetic and hyperfine properties of nanocrystalline Ni _{0.2} Zn _{0.6} Cu _{0.2} Fe ₂ O ₄ prepared by a chemical route. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 5253-5267.	1.8	39
39	Ytterbium-doped Y ₂ O ₃ nanoparticle silica optical fibers for high power fiber lasers with suppressed photodarkening. <i>Optics Communications</i> , 2010, 283, 3423-3427.	2.1	39
40	Sol-gel derived nanoparticles of Zn substituted lithium ferrite (Li _{0.32} Zn _{0.36} Fe _{2.32} O ₄): magnetic and Mössbauer effect measurements and their theoretical analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1317-1325.	2.3	39
41	Modulated magnetic property, enhanced microwave absorption and Mössbauer spectroscopy of Ni _{0.40} Zn _{0.40} Cu _{0.20} Fe ₂ O ₄ nanoparticles embedded in carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2013, 576, 126-133.	5.5	39
42	Visible light driven degradation of brilliant green dye using titanium based ternary metal oxide photocatalyst. <i>Results in Physics</i> , 2019, 12, 1850-1858.	4.1	39
43	Safe and symptomatic medicinal use of surface-functionalized Mn ₃ O ₄ nanoparticles for hyperbilirubinemia treatment in mice. <i>Nanomedicine</i> , 2015, 10, 2349-2363.	3.3	38
44	Synthesis and characterization of Cu/Ag nanoparticle loaded mullite nanocomposite system: A potential candidate for antimicrobial and therapeutic applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 3264-3276.	2.4	37
45	Nanoparticle Size-Dependent Antibacterial Activities in Natural Minerals. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 7112-7122.	0.9	37
46	Mössbauer, X-ray diffraction and AC susceptibility studies on nanoparticles of zinc substituted magnesium ferrite. <i>European Physical Journal B</i> , 2004, 39, 417-425.	1.5	36
47	Mechanical, dielectric and photoluminescence properties of alumina-mullite composite derived from natural Ganges clay. <i>Applied Clay Science</i> , 2015, 114, 349-358.	5.2	36
48	Optical, magnetic and dielectric properties of ZnO:Y nanoparticles synthesized by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2017, 696, 670-681.	5.5	34
49	Hydrothermal process assists undoped and Cr-doped semiconducting ZnO nanorods: Frontier of dielectric property. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	34
50	Î²-Phase improved Mn-Zn-Cu-ferrite-PVDF nanocomposite film: A metamaterial for enhanced microwave absorption. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 245, 17-29.	3.5	34
51	Improving the thermal stability, electroactive Î² phase crystallization and dielectric constant of NiO nanoparticle/Ca-NiO nanocomposite embedded flexible poly(vinylidene fluoride) thin films. <i>RSC Advances</i> , 2016, 6, 26288-26299.	3.6	33
52	Smart, lightweight, flexible NiO/poly(vinylidene fluoride) nanocomposites film with significantly enhanced dielectric, piezoelectric and EMI shielding properties. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	33
53	Phenothiazines as a solution for multidrug resistant tuberculosis: From the origin to present. <i>International Microbiology</i> , 2015, 18, 1-12.	2.4	31
54	Al-Si spinel phase formation in diphasic mullite gels. <i>Ceramics International</i> , 2003, 29, 27-33.	4.8	30

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55	Defect induced room-temperature ferromagnetism and enhanced dielectric property in nanocrystalline ZnO co-doped with Tb and Co. Journal of Alloys and Compounds, 2018, 731, 591-599.	5.5	30
56	Synthesis and characterization of copper doped zinc oxide nanoparticles and its application in energy conversion. Current Applied Physics, 2014, 14, 1149-1155.	2.4	29
57	Temperature dependent structural and optical properties of nanocrystalline CdO thin films deposited by sol-gel process. Journal of Nanoparticle Research, 2005, 7, 219-225.	1.9	28
58	Recent advances in piezocatalytic polymer nanocomposites for wastewater remediation. Dalton Transactions, 2022, 51, 451-462.	3.3	28
59	Enhanced dielectric behavior and ac electrical response in Gd-Mn-ZnO nanoparticles. Journal of Alloys and Compounds, 2017, 726, 11-21.	5.5	27
60	Gd(III)-Doped Boehmite Nanoparticle: An Emergent Material for the Fluorescent Sensing of Cr(VI) in Wastewater and Live Cells. Inorganic Chemistry, 2019, 58, 8369-8378.	4.0	27
61	Mullite phase enhancement in Indian kaolins by addition of vanadium pentoxide. Applied Clay Science, 2010, 47, 409-413.	5.2	26
62	Tunable photoluminescence emissions and large dielectric constant of the electroactive poly(vinylidene fluoride-hexafluoropropylene) thin films modified with SnO ₂ nanoparticles. RSC Advances, 2016, 6, 29931-29943.	3.6	26
63	Curcumin ameliorates the targeted delivery of methotrexate intercalated montmorillonite clay to cancer cells. European Journal of Pharmaceutical Sciences, 2019, 135, 91-102.	4.0	26
64	A bluetooth based sophisticated home automation system using smartphone. , 2016, , .		25
65	A Bioinformatics approach to designing a Zika virus vaccine. Computational Biology and Chemistry, 2017, 68, 143-152.	2.3	25
66	A facile vacuum assisted synthesis of nanoparticle impregnated hydroxyapatite composites having excellent antimicrobial properties and biocompatibility. Ceramics International, 2018, 44, 1066-1077.	4.8	25
67	Synthesis and Property of Copper-Impregnated In_2MnO_7 Semiconductor Quantum Dots. Langmuir, 2018, 34, 12702-12712.	3.5	25
68	A comprehensive study on the effect of Ru addition to Pt electrodes for direct ethanol fuel cell. Bulletin of Materials Science, 2009, 32, 643-652.	1.7	24
69	TiO_2 -Assisted Electroactive Polyvinylidene Fluoride Film-Based Energy Storage System Capable of Self-Charging Under Light. Energy Technology, 2017, 5, 2205-2215.	3.8	24
70	Copper doped In_2MnO_7 nano-sphere: metamaterial for enhanced supercapacitor and microwave shielding applications. Journal of Materials Chemistry C, 2021, 9, 5132-5147.	5.5	24
71	Synthesis of mixed calcite-calcium oxide nanojasmine flowers. Ceramics International, 2016, 42, 2339-2348.	4.8	23
72	Effects of various morphologies on the optical and electrical properties of boehmite nanostructures. CrystEngComm, 2018, 20, 6338-6350.	2.6	23

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73	Influence of Ni-Zn-Cu-ferrite on electroactive \hat{I}^2 -phase in poly(vinylidene fluoride)-Ni-Zn-Cu-ferrite nanocomposite film: Unique metamaterial for enhanced microwave absorption. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	23
74	<i>In Situ</i> -Grown Cd ²⁺ -Wrapped Boehmite Nanoparticles for Cr(VI) Sensing in Wastewater and a Theoretical Probe for Chromium-Induced Carcinogen Detection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43833-43843.	8.0	23
75	Heat-induced structural changes in merocyanine dyes: X-ray and thermal studies. <i>Dyes and Pigments</i> , 1995, 29, 191-201.	3.7	22
76	Yb ₂ O ₃ -doped YAG nano-crystallites in silica-based core glass matrix of optical fiber preform. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 175, 108-119.	3.5	22
77	Improvisation of electrical properties of PVDF-HFP: use of novel metallic nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 14798-14808.	2.2	22
78	Magnetic and hyperfine properties of chemically synthesized nanocomposites of (Al ₂ O ₃) _x (Ni _{0.2} Zn _{0.6} Cu _{0.2} Fe ₂ O ₄)(1- \hat{x}) (\hat{x} =0.15,0.30,0.45). <i>Solid State Communications</i> , 2007, 144, 305-309.	1.9	21
79	Abrupt change of dielectric properties in mullite due to titanium and strontium incorporation by sol-gel method. <i>Journal of Advanced Ceramics</i> , 2014, 3, 278-286.	17.4	21
80	Development of transition metal oxide-kaolin composite pigments for potential application in paint systems. <i>Applied Clay Science</i> , 2015, 107, 205-212.	5.2	21
81	Enhancement of room-temperature ferromagnetism and dielectric response in nanocrystalline ZnO co-doped with Co and Cu. <i>Journal of Alloys and Compounds</i> , 2018, 749, 1-9.	5.5	21
82	Nitrogenous carbon dot decorated natural microcline: an ameliorative dual fluorometric probe for Fe ³⁺ and Cr ⁶⁺ detection. <i>Dalton Transactions</i> , 2020, 49, 10554-10566.	3.3	21
83	Photo-Rechargeable Organic-Inorganic Dye-Integrated Polymeric Power Cell with Superior Performance and Durability. <i>Langmuir</i> , 2019, 35, 6346-6355.	3.5	20
84	Development and optimization of a noncontact optical device for online monitoring of jaundice in human subjects. <i>Journal of Biomedical Optics</i> , 2015, 20, 067001.	2.6	19
85	Lattice-Defect-Induced Piezo Response in Methylammonium-Lead-Iodide Perovskite Based Nanogenerator. <i>ChemistrySelect</i> , 2018, 3, 5304-5312.	1.5	19
86	Delafossite type CuCo _{0.5} Ti _{0.5} O ₂ composite structure: A futuristic ceramics for supercapacitor and EMI shielding application. <i>Ceramics International</i> , 2021, 47, 9907-9922.	4.8	19
87	Development of a Sustainable and Biodegradable <i>Sonchus asper</i> Cotton Pappus Based Piezoelectric Nanogenerator for Instrument Vibration and Human Body Motion Sensing with Mechanical Energy Harvesting Applications. <i>ACS Omega</i> , 2021, 6, 28710-28717.	3.5	19
88	Development of iron oxide and titania treated fly ash based ceramic and its bioactivity. <i>Materials Science and Engineering C</i> , 2012, 32, 1358-1365.	7.3	18
89	In situ synthesis of environmentally benign montmorillonite supported composites of Au/Ag nanoparticles and their catalytic activity in the reduction of p-nitrophenol. <i>RSC Advances</i> , 2014, 4, 61114-61123.	3.6	18
90	Sol-gel synthesis of transition-metal ion conjugated alumina-rich mullite nanocomposites with potential mechanical, dielectric and photoluminescence properties. <i>RSC Advances</i> , 2015, 5, 104299-104313.	3.6	17

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91	Synthesis of eucalyptus/tea tree oil absorbed biphasic calcium phosphateâ€“PVDF polymer nanocomposite films: a surface active antimicrobial system for biomedical application. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16775-16785.	2.8	17
92	Dielectric and magnetic properties of solâ€“gel derived mullite-iron nanocomposite. <i>Journal of Electroceramics</i> , 2012, 28, 261-267.	2.0	16
93	H7N9 influenza outbreak in China 2013: In silico analyses of conserved segments of the hemagglutinin as a basis for the selection of peptide vaccine targets. <i>Computational Biology and Chemistry</i> , 2015, 59, 8-15.	2.3	16
94	Phenolic compound-mediated single-step fabrication of copper oxide nanoparticles for elucidating their influence on anti-bacterial and catalytic activity. <i>New Journal of Chemistry</i> , 2017, 41, 4458-4467.	2.8	16
95	Portable Self-Powered Piezoelectric Nanogenerator and Self-Charging Photo-Power Pack Using In Situ Formed Multifunctional Calcium Phosphate Nanorod-Doped PVDF Films. <i>Langmuir</i> , 2019, 35, 17016-17026.	3.5	16
96	Sintering characteristics of in situ formed low expansion ceramics from a powder precursor in the form of hydroxy hydrogel. <i>Ceramics International</i> , 2004, 30, 2147-2155.	4.8	15
97	Effect of size of fly ash particle on enhancement of mullite content and glass formation. <i>Bulletin of Materials Science</i> , 2011, 34, 1663-1670.	1.7	15
98	Microstructure and Dielectric Properties of Naturally Formed Microcline and Kyanite: A Size-Dependent Study. <i>Crystal Growth and Design</i> , 2019, 19, 4588-4601.	3.0	15
99	Dielectric switching above a critical frequency occurred in iron mullite composites used as an electronic substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 5218-5225.	2.2	14
100	Enhanced dielectric properties and conductivity of triturated copper and cobalt nanoparticles-doped PVDF-HFP film and their possible use in electronic industry. <i>Materials Research Innovations</i> , 2017, 21, 166-171.	2.3	14
101	Polymeric carbon dot/boehmite nanocomposite made portable sensing device (Kavach) for non-invasive and selective detection of Cr(VI) in wastewater and living cells. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130662.	7.8	14
102	Testing urine samples with rK39 strip as the simplest non-invasive field diagnosis for visceral leishmaniasis. <i>Journal of Postgraduate Medicine</i> , 2012, 58, 180-184.	0.4	14
103	Effect of nickel and cobalt ions on low temperature synthesis of mullite by solâ€“gel technique. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 135-141.	2.4	13
104	Nanoparticles and membrane anisotropy. <i>Homeopathy</i> , 2011, 100, 194.	1.0	13
105	Short-Course Treatment Regimen of Indian Visceral Leishmaniasis with an Indian Liposomal Amphotericin B Preparation (Fungisomeâ„¢). <i>American Journal of Tropical Medicine and Hygiene</i> , 2016, 94, 93-98.	1.4	13
106	Enhancement of β -phase crystallization and electrical properties of PVDF by impregnating ultra high diluted novel metal derived nanoparticles: prospect of use as a charge storage device. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14535-14545.	2.2	13
107	Tungsten doped hydroxyapatite processed at different temperatures: dielectric behaviour and anti-microbial properties. <i>New Journal of Chemistry</i> , 2018, 42, 16948-16959.	2.8	13
108	Morphology and temperature-dependent electron field emission from vertically aligned carbon nanofibers. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 91, 429-433.	2.3	12

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109	Synthesis and electrical properties of a single walled carbon nanotube–borosilicate glass composite. <i>Chemical Physics Letters</i> , 2010, 496, 321-325.	2.6	12
110	Anorthite porcelain: synthesis, phase and microstructural evolution. <i>Bulletin of Materials Science</i> , 2015, 38, 551-555.	1.7	12
111	A comparative study of strontium and titanium doped mullite in PVDF matrix and their phase behavior, microstructure and electrical properties. <i>Materials Chemistry and Physics</i> , 2017, 187, 119-132.	4.0	12
112	In situ synthesized electroactive and large dielectric BaF ₂ /PVDF nanocomposite film for superior and highly durable self-charged hybrid photo-power cell. <i>Energy Conversion and Management</i> , 2018, 171, 1083-1092.	9.2	12
113	Dependence of thermoelectric power and electrical conductivity on structural order of PEDOT-Tos-graphene nanocomposite via charge carrier mobility. <i>Materials Research Express</i> , 2019, 6, 105095.	1.6	12
114	Enhancement of EMI shielding effectiveness of flexible Co ₂ U-type hexaferrite (Ba ₄ Co ₂ Fe ₃₆ O ₆₀)-poly(vinylidene fluoride) heterostructure composite materials: An improved radar absorbing material to combat against electromagnetic pollution. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	12
115	Effect of some statin group of drugs on the phase profile of liposomal membrane – a fluorescence anisotropy study. <i>Phase Transitions</i> , 2009, 82, 821-830.	1.3	11
116	Study of the fabrication parameters of large core Yb ₂ O ₃ doped optical fibre through solution doping technique. <i>Optics Communications</i> , 2010, 283, 1039-1046.	2.1	11
117	A comparative electrical study of nano-crystalline mullite with low dielectric loss due to incorporation of tungsten and molybdenum ion: their uses in electronic industries. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5803-5811.	2.2	11
118	Influence of different Cr concentrations on the structural and ferromagnetic properties of ZnO nanomaterials prepared by the hydrothermal synthesis route. <i>Materials Research Bulletin</i> , 2019, 118, 110480.	5.2	11
119	Reduction of electromagnetic pollution by the enhancement of microwave absorption of strontium hexaferrite functionalized poly(vinylidene fluoride) composite film. <i>Materials Research Express</i> , 2019, 6, 086424.	1.6	11
120	Application of silica nanoparticles to develop faujasite nanocomposite for heavy metal and carcinogenic dye degradation. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, S15.	2.3	11
121	Self-Polarized ZrO ₂ /Poly(vinylidene fluoride-co-hexafluoropropylene) Nanocomposite-Based Piezoelectric Nanogenerator and Single-Electrode Triboelectric Nanogenerator for Sustainable Energy Harvesting from Human Movements. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000695.	1.8	11
122	Effect of Size Fractionation on Purity, Thermal Stability and Electrical Properties of Natural Hematite. <i>Journal of Electronic Materials</i> , 2021, 50, 3836-3845.	2.2	11
123	Photoinduced proton transport mechanism in merocyanine-dye-probed planar lipid membranes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 18, 155-159.	3.8	10
124	Lipid-disordering effect of aspirin on the liposomal membrane of dipalmitoyl phosphatidyl choline – A fluorescence anisotropy study. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995, 4, 309-311.	5.0	10
125	Nonlinear CA Based Design of Test Set Generator Targeting Pseudo-Random Pattern Resistant Faults. , 0, .		10
126	Increased quantum efficiency in hybrid photoelectrochemical cell consisting of thionine and zinc oxide nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 211, 143-146.	3.9	10

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127	Yb-doped yttria-alumino-silicate nano-particles based optical fibers: Fabrication and characterization. <i>Optics and Laser Technology</i> , 2012, 44, 617-620.	4.6	10
128	Thermal analysis and vitrification behavior of slag containing porcelain stoneware body. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 1169-1177.	3.6	10
129	Essential oil impregnated luminescent hydroxyapatite: Antibacterial and cytotoxicity studies. <i>Materials Science and Engineering C</i> , 2020, 116, 111190.	7.3	10
130	Combination Therapy Against Indian Visceral Leishmaniasis with Liposomal Amphotericin B (Fungisome TM) and Short-Course Miltefosine in Comparison to Miltefosine Monotherapy. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 308-314.	1.4	10
131	Reversible Switching under Forward Bias in CdS/CdTe Heterojunctions. <i>Physica Status Solidi A</i> , 1993, 136, 251-259.	1.7	9
132	Evidence for two stage mullite formation during thermal decomposition of kaolinite. <i>Advances in Applied Ceramics</i> , 2003, 102, 153-157.	0.4	9
133	Physico-chemical property-driven dielectric behaviour and catalytic activity of nanocrystalline mullite synthesized from monophasic precursor gel. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 769-782.	2.4	9
134	High dielectric response of cobalt aluminate mullite (CAM) nanocomposite over cobalt aluminate mullite polymer (CAMP) nanocomposite in PVDF matrix. <i>Journal of Electroceramics</i> , 2018, 40, 347-359.	2.0	9
135	Enhancement of Thermoelectric Performance in Oligomeric PEDOT-SWCNT Nanocomposite via Band Gap Tuning. <i>ChemistrySelect</i> , 2018, 3, 8992-8997.	1.5	9
136	Effect of hydrothermal synthesis on physical property modulation and biological activity of ZnO nanorods. <i>Materials Research Express</i> , 2019, 6, 1250f7.	1.6	9
137	Development of a Cu(II) doped boehmite based multifunctional sensor for detection and removal of Cr(VI) from wastewater and conversion of Cr(VI) into an energy harvesting source. <i>Dalton Transactions</i> , 2020, 49, 6607-6615.	3.3	9
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