

Ranjith Kumar Easwaran

List of Publications by Year in descending order

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87
papers

2,291
citations

172386
29
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254106
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times ranked

2167
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#	ARTICLE	IF	CITATIONS
1	Investigations of Structural, Morphological, Optical and Antimicrobial Behaviour of Bi Doped CdO Nanostructures. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 280-288.	1.9	3
2	Natural tannic acid (green tea) mediated synthesis of ethanol sensor based Fe ₃ O ₄ nanoparticles: Investigation of structural, morphological, optical properties and colloidal stability for gas sensor application. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131071.	4.0	35
3	Natural fuel assisted synthesis of Mg ²⁺ -Cu ferrite nanoparticles: Evaluation of structural, dielectric, magnetic and humidity sensing properties. <i>Ceramics International</i> , 2022, 48, 4874-4885.	2.3	15
4	Preparation of carbon quantum dots using bike pollutant soot: Evaluation of structural, optical and moisture sensing properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115174.	1.3	18
5	Effect of heat treatment on structural, morphological, dielectric and magnetic properties of Mg ²⁺ -Zn ferrite nanoparticles. <i>Ceramics International</i> , 2022, 48, 15243-15251.	2.3	27
6	Shielding performance of Mn Ni _{0.8} Zn _{0.2} Fe ₂ O ₄ (0.1% x 0.7) for electromagnetic interference (EMI) in X-band frequency. <i>Ceramics International</i> , 2022, 48, 9987-9997.	2.3	9
7	Murraya koenigii mediated synthesis of cobalt doped NiO nanoparticles: Evaluation of structural, optical properties and anti-bacterial activity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 142, 115295.	1.3	12
8	Natural citric acid assisted synthesis of CuO nanoparticles: Evaluation of structural, optical, morphological properties and colloidal stability for gas sensor applications. <i>Ceramics International</i> , 2022, 48, 26287-26293.	2.3	24
9	Citrus limon assisted green synthesis of MgO nanoparticles: Evaluation of phase, functional groups, surface morphology, thermal stability and colloidal stability. <i>Ceramics International</i> , 2022, 48, 27774-27778.	2.3	16
10	Evaluation of Structural, Micro-structural, Vibrational and Elastic Properties of Ni ²⁺ -Cu ²⁺ -Zn Nanoferrites: Role of Dopant Cu ²⁺ at Constant 0.1 mol% in Ni ²⁺ -Zn Spinel Structure. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 1336-1346.	1.9	12
11	Lemon juice (natural fuel) assisted synthesis of MgO nanorods for LPG gas sensor applications. <i>Solid State Communications</i> , 2021, 325, 114161.	0.9	19
12	Size and Phase Purity ²⁺ -Dependent Microstructural and Magnetic Properties of Spinel Ferrite Nanoparticles. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 1239-1244.	0.8	4
13	Effects of Nd doping on structural, optical, morphological and surface-chemical state analysis of ZnO nanoparticles for antimicrobial and anticancer activities. <i>Surfaces and Interfaces</i> , 2021, 23, 101000.	1.5	13
14	Natural fuels (Honey and Cow urine) assisted combustion synthesis of zinc oxide nanoparticles for antimicrobial activities. <i>Ceramics International</i> , 2021, 47, 14475-14481.	2.3	29
15	Evaluation of gas sensor behaviour of Sm ³⁺ doped TiO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16854-16865.	1.1	7
16	Evaluation of structural, dielectric and electrical humidity sensor behaviour of MgFe ₂ O ₄ ferrite nanoparticles. <i>Ceramics International</i> , 2021, 47, 15995-16008.	2.3	39
17	Structural, optical, thermal, biological and molecular docking studies of guanidine based naphthoate metal complexes. <i>Surfaces and Interfaces</i> , 2021, 24, 101094.	1.5	8
18	Evaluation of Cu ²⁺ -MgFe ₂ O ₄ spinel nanoparticles for photocatalytic and antimicrobial activities. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 153, 110010.	1.9	49

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19	Green synthesized MgFe ₂ O ₄ ferrites nanoparticles for biomedical applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	13
20	Humic acid involved chelation of ZnO nanoparticles for enhancing mineral nutrition in plants. Solid State Communications, 2021, 333, 114355.	0.9	10
21	Bio-ingredients assisted synthesis of Fe doped zinc oxide nanostructures: Study on structural, optical, morphological and thermal properties. Ceramics International, 2021, 47, 35378-35383.	2.3	6
22	Natural citric acid (lemon juice) assisted synthesis of ZnO nanostructures: Evaluation of phase composition, morphology, optical and thermal properties. Ceramics International, 2021, 47, 23110-23115.	2.3	11
23	Study of structural, vibrational, elastic and magnetic properties of uniaxial anisotropic Ni-Zn nanoferrites in the context of cation distribution and magnetocrystalline anisotropy. Journal of Alloys and Compounds, 2021, 873, 159748.	2.8	21
24	Evaluation of structural, surface morphological and thermal properties of Ag-doped ZnO nanoparticles for antimicrobial activities. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 133, 114801.	1.3	22
25	Evaluation of phase, morphological, optical and electrical properties of microwave synthesized Sn doped CdO nanostructures. Solid State Communications, 2021, 336, 114388.	0.9	6
26	Surfactant effects on structural, optical and morphological characteristics of microwave irradiated CdO nanostructures. Ceramics International, 2021, 47, 27274-27284.	2.3	4
27	New Epoxy-nano metal oxide-based coatings for enhanced corrosion protection. Journal of Molecular Structure, 2021, , 131790.	1.8	4
28	Structural, morphological and magnetic properties of algae/CoFe ₂ O ₄ and algae/Ag-Fe-O nanocomposites and their biomedical applications. Inorganic Chemistry Communication, 2020, 111, 107578.	1.8	21
29	Evaluation of curcumin assistance in the antimicrobial and photocatalytic activity of a carbon based TiO ₂ nanocomposite. New Journal of Chemistry, 2020, 44, 15895-15907.	1.4	17
30	Study of magnetic behavior in co-precipitated Ni ²⁺ -Zn ferrite nanoparticles and their potential use for gas sensor applications. Journal of Magnetism and Magnetic Materials, 2020, 502, 166534.	1.0	58
31	Evaluation of structural and dielectric properties of Mn ²⁺ -substituted Zn-spinel ferrite nanoparticles for gas sensor applications. Sensors and Actuators B: Chemical, 2020, 316, 128127.	4.0	27
32	Rietveld refinement and FTIR spectroscopic studies of Ni ²⁺ -substituted Zn-ferrite nanoparticles. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	17
33	Structural and magnetic properties of CuFe ₂ O ₄ ferrite nanoparticles synthesized by cow urine assisted combustion method. Journal of Magnetism and Magnetic Materials, 2019, 484, 120-125.	1.0	69
34	Study of structural, morphological and magnetic properties of Ag substituted cobalt ferrite nanoparticles prepared by honey assisted combustion method and evaluation of their antibacterial activity. Journal of Magnetism and Magnetic Materials, 2019, 469, 691-697.	1.0	85
35	Enhanced Adsorption and Antimicrobial Activity of Fabricated Apocynaceae Leaf Waste Activated Carbon by Cobalt Ferrite Nanoparticles for Textile Effluent Treatment. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 550-563.	1.9	23
36	XRD, EDX, FTIR and ESR spectroscopic studies of co-precipitated Mn ²⁺ -substituted Zn ²⁺ -ferrite nanoparticles. Ceramics International, 2019, 45, 8037-8044.	2.3	93

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37	Effects of Cr Doping Concentration on Structural, Morphology, Mechanical and Magnetic Properties of Electrodeposited NiCoCr Thin Films. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 1094-1099.	1.9	11
38	Structural, optical and electrical properties of pure and Fe doped V2O5 nanoparticles for junction diode fabrications. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9840-9853.	1.1	8
39	Effect of Biopolymer Blend Matrix on Structural, Optical and Biological Properties of Chitosan- Agar Blend ZnO Nanocomposites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1528-1539.	1.9	14
40	Effects of doping concentration on structural, morphological, optical and electrical properties of tungsten doped V2O5 nanorods. <i>Ceramics International</i> , 2018, 44, 7098-7109.	2.3	15
41	Effect of Al doping concentration on the structural, optical, morphological and electrical properties of V ₂ O ₅ nanostructures. <i>New Journal of Chemistry</i> , 2018, 42, 4278-4288.	1.4	17
42	Influence of Magnetic Nanoparticles on Surface Changes in CoFe2O4/Nerium Oleander Leaf Waste Activated Carbon Nanocomposite for Water Treatment. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1706-1717.	1.9	14
43	Tuning effect of polysaccharide Chitosan on structural, morphological, optical and photoluminescence properties of ZnO nanoparticles. <i>Superlattices and Microstructures</i> , 2018, 117, 36-45.	1.4	41
44	Synthesis of MFe ₂ O ₄ (M=Mg ²⁺ , Zn ²⁺ , Mn ²⁺) spinel ferrites and their structural, elastic and electron magnetic resonance properties. <i>Ceramics International</i> , 2018, 44, 10517-10524.	2.3	72
45	Study of structural, morphological, optical and biomedical properties of pH based ZnO nanostructures. <i>Superlattices and Microstructures</i> , 2018, 124, 41-51.	1.4	16
46	Synergistic effect of heat treatment on structural, magnetic and dielectric properties of spinel ferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20968-20977.	1.1	13
47	Structural, morphological, optical and biological properties of pure ZnO and agar/zinc oxide nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 959-966.	3.6	18
48	Particle size dependence of the magnetic, dielectric and gas sensing properties of Co substituted NiFe2O4 nanoparticles. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 10-16.	2.0	48
49	Structural and electron spin resonance spectroscopic studies of Mn Zn _{1-x} Fe _{2O4} (x=0.5, 0.6, 0.7) nanoferrites synthesized by sol-gel auto combustion method. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 60-68.	1.0	53
50	Tailoring of Functionally Graded Mullite: La2O3 Coatings by Transferred Arc Plasma for Thermal Barrier Coatings. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2484-2493.	1.9	5
51	Effects of Heat Treatment on Structural, Optical and Magnetic Properties of Electro Deposited Fe-Ni-P Thin Films. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1787-1792.	1.9	2
52	Effect of In substitution on structural, dielectric and magnetic properties of CuFe2O4 nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 432, 477-483.	1.0	50
53	Utilization of magnetic nano cobalt ferrite doped Capra aegagrus hircus dung activated carbon composite for the adsorption of anionic dyes. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2820-2829.	3.3	18
54	Structural, optical, morphological and thermal properties of TiO ₂ -Al and TiO ₂ -Al ₂ O ₃ composite powders by ball milling. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1815-1819.	0.9	36

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55	Preparation and characterization of polyol assisted ultrafine Cu ²⁺ Ni ²⁺ Mg ²⁺ Ca mixed ferrite via co-precipitation method. Journal of Magnetism and Magnetic Materials, 2017, 428, 382-389.	1.0	12
56	The properties of Mn ²⁺ CuFe ₂ O ₄ spinel ferrite nanoparticles under various synthesis conditions. Physics of the Solid State, 2017, 59, 1841-1851.	0.2	8
57	Influence of sintering temperature on structural, dielectric and magnetic properties of Li substituted CuFe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 426, 11-17.	1.0	25
58	Effect of sintering temperature on Structural and Dielectric properties of Sn substituted CuFe ₂ O ₄ Nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 423, 250-255.	1.0	35
59	Structural, Dielectric and Gas Sensing Properties of Mn-Ni Ferrite Nanoparticles. Springer Proceedings in Physics, 2017, , 135-143.	0.1	2
60	Fabrication of Tin Oxide Nano-fibers by Electro Spinning Generator. Springer Proceedings in Physics, 2017, , 99-108.	0.1	0
61	Effect of Zn and Ni substitution on structural, morphological and magnetic properties of tin oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 419, 429-434.	1.0	8
62	Effect of annealing on particle size, microstructure and gas sensing properties of Mn substituted CoFe ₂ O ₄ nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 417, 122-129.	1.0	38
63	Preparation, characterization and ab-initio study of CdSnTe ₂ thin films by closed space sublimation technique. Superlattices and Microstructures, 2016, 90, 38-44.	1.4	1
64	Structural, morphological and optical properties of ZnO nano-fibers. Superlattices and Microstructures, 2016, 90, 45-52.	1.4	22
65	Microwave-assisted synthesis of Cd(OH) ₂ /CdO nanorods: Effect of irradiation time. Superlattices and Microstructures, 2016, 90, 117-123.	1.4	8
66	Structural, dielectric and gas sensing behavior of Mn substituted spinel MFe ₂ O ₄ (M=Zn, Cu, Ni, and) Tj ETQq0 0 Q rrgBT /Overlock 10 T	1.6	72
67	Heat treatment effects on structural and dielectric properties of Mn substituted CuFe ₂ O ₄ and ZnFe ₂ O ₄ nanoparticles. Superlattices and Microstructures, 2015, 85, 530-535.	1.4	42
68	Structural, morphological and optical properties of Bi-doped ZnO nanoparticles synthesized by a microwave irradiation method. Journal of Materials Science: Materials in Electronics, 2015, 26, 4913-4921.	1.1	42
69	Effect of particle size on structural, magnetic and dielectric properties of manganese substituted nickel ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 378, 389-396.	1.0	39
70	A comparative study of the synthesis of CdO nanoplatelets by an albumen-assisted isothermal evaporation method. Journal of Alloys and Compounds, 2015, 624, 258-265.	2.8	29
71	Effect of Ce doping on microstructural, morphological and optical properties of ZrO ₂ nanoparticles. Materials Science in Semiconductor Processing, 2015, 30, 518-526.	1.9	37
72	The role of fuel concentration on particle size and dielectric properties of manganese substituted zinc ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 366, 33-39.	1.0	19

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73	Effect of Sn doping on microstructural and optical properties of ZnO nanoparticles synthesized by microwave irradiation method. <i>Journal of Materials Science</i> , 2014, 49, 1776-1784.	1.7	27
74	Magnetic, dielectric and sensing properties of manganese substituted copper ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 87-92.	1.0	66
75	The effect of annealing on phase evolution, microstructure and magnetic properties of Mn substituted CoFe ₂ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 358-359, 123-127.	1.0	28
76	Effect of ultrasonication on particle size and magnetic properties of polyaniline NiCoFe ₂ O ₄ nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 366, 55-63.	1.0	35
77	Synthesis of Mn substituted CuFe ₂ O ₄ nanoparticles for liquefied petroleum gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 186-191.	4.0	81
78	The role of annealing temperature and bio template (egg white) on the structural, morphological and magnetic properties of manganese substituted MFe ₂ O ₄ (M=Zn, Cu, Ni, Co) nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 351, 70-75.	1.0	45
79	Effect of annealing temperature on structural and magnetic properties of manganese substituted NiFe ₂ O ₄ nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2014, 17, 173-177.	1.9	38
80	Effect of λ -Fe ₂ O ₃ phase on structural, magnetic and dielectric properties of Mn-Zn ferrite nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 943-949.	1.9	92
81	Study of Magnetic Behavior of Mn _{1-x} Ni _x Fe ₂ O ₄ Nanoparticles. <i>Physics Procedia</i> , 2013, 49, 27-35.	1.2	4
82	Preparation and magnetic properties of the nanosized Mn-Ce-Fe-O system. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1701-1705.	1.9	5
83	Structural and morphological studies of manganese substituted CoFe ₂ O ₄ and NiFe ₂ O ₄ nanoparticles. <i>Superlattices and Microstructures</i> , 2013, 62, 277-284.	1.4	28
84	Effect of reaction time on particle size and dielectric properties of manganese substituted CoFe ₂ O ₄ nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 110-114.	1.9	53
85	Effect of combustion rate and annealing temperature on structural and magnetic properties of manganese substituted nickel and zinc ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 93-100.	1.0	36
86	Effect of fuel ratio and the impact of annealing temperature on particle size, magnetic and dielectric properties of manganese substituted CuFe ₂ O ₄ nanoparticles. <i>Superlattices and Microstructures</i> , 2013, 64, 343-353.	1.4	17
87	Influence of carboxylic acids on structural, optical, thermal, and electrical properties of ferroelectric glycine phosphite single crystals. <i>Journal of Materials Science: Materials in Electronics</i> , 0, , .	1.1	0