Ranjith Kumar Easwaran

List of Publications by Year
in descending order

87	2,291	172386	254106
papers	citations	29 h-index	43 g-index

88	88	88	2167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	XRD, EDX, FTIR and ESR spectroscopic studies of co-precipitated Mnâ€“substituted Znâ€“ferrite nanoparticles. Ceramics International, 2019, 45, 8037-8044.	2.3	93
2	Effect of Î±-Fe2O3 phase on structural, magnetic and dielectric properties of Mnâ€“Zn ferrite nanoparticles. Journal of Physics and Chemistry of Solids, 2013, 74, 943-949.	1.9	92
3	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
4	Synthesis of Mn substituted CuFe2O4 nanoparticles for liquefied petroleum gas sensor applications. Sensors and Actuators B: Chemical, 2014, 191, 186-191.	4.0	81
5	Structural, dielectric and gas sensing behavior of Mn substituted spinel MFe 2 O 4 (M=Zn, Cu, Ni, and) Tj ETQq1 1 0.784314 rgBT /Over	1.0	72
6	Synthesis of MFe 2 O 4 (M=Mg 2+ , Zn 2+ , Mn 2+) spinel ferrites and their structural, elastic and electron magnetic resonance properties. Ceramics International, 2018, 44, 10517-10524.	2.3	72
7	Structural and magnetic properties of CuFe2O4 ferrite nanoparticles synthesized by cow urine assisted combustion method. Journal of Magnetism and Magnetic Materials, 2019, 484, 120-125.	1.0	69
8	Magnetic, dielectric and sensing properties of manganese substituted copper ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 355, 87-92.	1.0	66
9	Study of magnetic behavior in co-precipitated Niâ€“Zn ferrite nanoparticles and their potential use for gas sensor applications. Journal of Magnetism and Magnetic Materials, 2020, 502, 166534.	1.0	58
10	Effect of reaction time on particle size and dielectric properties of manganese substituted CoFe2O4 nanoparticles. Journal of Physics and Chemistry of Solids, 2013, 74, 110-114.	1.9	53
11	Structural and electron spin resonance spectroscopic studies of Mn Zn1â^'Fe2O4 (xâ€¯=â€¯0.5, 0.6, 0.7) nanoferrites synthesized by sol-gel auto combustion method. Journal of Magnetism and Magnetic Materials, 2018, 466, 60-68.	1.0	53
12	Effect of In substitution on structural, dielectric and magnetic properties of CuFe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 432, 477-483.	1.0	50
13	Evaluation of Cuâ€“MgFe2O4 spinel nanoparticles for photocatalytic and antimicrobial activates. Journal of Physics and Chemistry of Solids, 2021, 153, 110010.	1.9	49
14	Particle size dependence of the magnetic, dielectric and gas sensing properties of Co substituted NiFe2O4 nanoparticles. Sensors and Actuators A: Physical, 2018, 279, 10-16.	2.0	48
15	The role of annealing temperature and bio template (egg white) on the structural, morphological and magnetic properties of manganese substituted MFe2O4 (M=Zn, Cu, Ni, Co) nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 351, 70-75.	1.0	45
16	Heat treatment effects on structural and dielectric properties of Mn substituted CuFe2O4 and ZnFe2O4 nanoparticles. Superlattices and Microstructures, 2015, 85, 530-535.	1.4	42
17	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
18	Tuning effect of polysaccharide Chitosan on structural, morphological, optical and photoluminescence properties of ZnO nanoparticles. Superlattices and Microstructures, 2018, 117, 36-45.	1.4	41

#	Article	IF	Citations
19	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
20	Evaluation of structural, dielectric and electrical humidity sensor behaviour of MgFe2O4 ferrite nanoparticles. Ceramics International, 2021, 47, 15995-16008.	2.3	39
21	Effect of annealing temperature on structural and magnetic properties of manganese substituted NiFe2O4 nanoparticles. Materials Science in Semiconductor Processing, 2014, 17, 173-177.	1.9	38
22	Effect of annealing on particle size, microstructure and gas sensing properties of Mn substituted CoFe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 417, 122-129.	1.0	38
23	Effect of Ce doping on microstructural, morphological and optical properties of ZrO2 nanoparticles. Materials Science in Semiconductor Processing, 2015, 30, 518-526.	1.9	37
24	Effect of combustion rate and annealing temperature on structural and magnetic properties of manganese substituted nickel and zinc ferrites. Journal of Magnetism and Magnetic Materials, 2013, 348, 93-100.	1.0	36
25	Structural, optical, morphological and thermal properties of TiO 2 â€“Al and TiO 2 â€“Al 2 O 3 composite powders by ball milling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1815-1819.	0.9	36
26	Effect of ultrasonication on particle size and magnetic properties of polyaniline NiCoFe2O4 nanocomposites. Journal of Magnetism and Magnetic Materials, 2014, 366, 55-63.	1.0	35
27	Effect of sintering temperature on Structural and Dielectric properties of Sn substituted CuFe2O4 Nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 423, 250-255.	1.0	35
28	Natural tannic acid (green tea) mediated synthesis of ethanol sensor based Fe3O4 nanoparticles: Investigation of structural, morphological, optical properties and colloidal stability for gas sensor application. Sensors and Actuators B: Chemical, 2022, 352, 131071.	4.0	35
29	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
30	Natural fuels (Honey and Cow urine) assisted combustion synthesis of zinc oxide nanoparticles for antimicrobial activities. Ceramics International, 2021, 47, 14475-14481.	2.3	29
31	Structural and morphological studies of manganese substituted CoFe2O4 and NiFe2O4 nanoparticles. Superlattices and Microstructures, 2013, 62, 277-284.	1.4	28
32	The effect of annealing on phase evolution, microstructure and magnetic properties of Mn substituted CoFe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 123-127.	1.0	28
33	Effect of Sn doping on microstructural and optical properties of ZnO nanoparticles synthesized by microwave irradiation method. Journal of Materials Science, 2014, 49, 1776-1784.	1.7	27
34	Evaluation of structural and dielectric properties of Mn2+-substituted Zn-spinel ferrite nanoparticles for gas sensor applications. Sensors and Actuators B: Chemical, 2020, 316, 128127.	4.0	27
35	Effect of heat treatment on structural, morphological, dielectric and magnetic properties of Mgâ€“Zn ferrite nanoparticles. Ceramics International, 2022, 48, 15243-15251.	2.3	27
36	Influence of sintering temperature on structural, dielectric and magnetic properties of Li substituted CuFe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2017, 426, 11-17.	1.0	25

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37	Natural citric acid assisted synthesis of CuO nanoparticles: Evaluation of structural, optical, morphological properties and colloidal stability for gas sensor applications. Ceramics International, 2022, 48, 26287-26293.	2.3	24
38	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
39	Structural, morphological and optical properties of ZnO nano-fibers. Superlattices and Microstructures, 2016, 90, 45-52.	1.4	22
40	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
41	Structural, morphological and magnetic properties of algae/CoFe2O4 and algae/Ag-Fe-O nanocomposites and their biomedical applications. Inorganic Chemistry Communication, 2020, 111, 107578.	1.8	21
42	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
43	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
44	Lemon juice (natural fuel) assisted synthesis of MgO nanorods for LPG gas sensor applications. Solid State Communications, 2021, 325, 114161.	0.9	19
45	Utilization of magnetic nano cobalt ferrite doped Capra aegagrus hircus dung activated carbon composite for the adsorption of anionic dyes. Journal of Environmental Chemical Engineering, 2017, 5, 2820-2829.	3.3	18
46	Structural, morphological, optical and biological properties of pure ZnO and agar/zinc oxide nanocomposites. International Journal of Biological Macromolecules, 2018, 117, 959-966.	3.6	18
47	Preparation of carbon quantum dots using bike pollutant soot: Evaluation of structural, optical and moisture sensing properties. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115174.	1.3	18
48	Effect of fuel ratio and the impact of annealing temperature on particle size, magnetic and dielectric properties of manganese substituted CuFe2O4 nanoparticles. Superlattices and Microstructures, 2013, 64, 343-353.	1.4	17
49	Effect of Al doping concentration on the structural, optical, morphological and electrical properties of V₂O₅ nanostructures. New Journal of Chemistry, 2018, 42, 4278-4288.	1.4	17
50	Rietveld refinement and FTIR spectroscopic studies of Ni2+-substituted Zn-ferrite nanoparticles. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	17
51	Evaluation of curcumin assistance in the antimicrobial and photocatalytic activity of a carbon based TiO₂nanocomposite. New Journal of Chemistry, 2020, 44, 15895-15907.	1.4	17
52	Study of structural, morphological, optical and biomedical properties of pH based ZnO nanostructures. Superlattices and Microstructures, 2018, 124, 41-51.	1.4	16
53	Citrus limon assisted green synthesis of MgO nanoparticles: Evaluation of phase, functional groups, surface morphology, thermal stability and colloidal stability. Ceramics International, 2022, 48, 27774-27778.	2.3	16
54	Effects of doping concentration on structural, morphological, optical and electrical properties of tungsten doped V2O5 nanorods. Ceramics International, 2018, 44, 7098-7109.	2.3	15

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55	Natural fuel assisted synthesis of Mgâ€“Cu ferrite nanoparticles: Evaluation of structural, dielectric, magnetic and humidity sensing properties. Ceramics International, 2022, 48, 4874-4885.	2.3	15
56	Effect of Biopolymer Blend Matrix on Structural, Optical and Biological Properties of Chitosanâ€“Agar Blend ZnO Nanocomposites. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1528-1539.	1.9	14
57	Influence of Magnetic Nanoparticles on Surface Changes in CoFe2O4/Nerium Oleander Leaf Waste Activated Carbon Nanocomposite for Water Treatment. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1706-1717.	1.9	14
58	Synergistic effect of heat treatment on structural, magnetic and dielectric properties of spinel ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 20968-20977.	1.1	13
59	Effects of Nd doping on structural, optical, morphological and surface-chemical state analysis of ZnO nanoparticles for antimicrobial and anticancer activities. Surfaces and Interfaces, 2021, 23, 101000.	1.5	13
60	Green synthesized MgFe2O4 ferrites nanoparticles for biomedical applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	13
61	Preparation and characterization of polyol assisted ultrafine Cuâ€“Niâ€“Mgâ€“Ca mixed ferrite via co-precipitation method. Journal of Magnetism and Magnetic Materials, 2017, 428, 382-389.	1.0	12
62	Evaluation of Structural, Micro-structural, Vibrational and Elastic Properties of Niâ€“Cuâ€“Zn Nanoferrites: Role of Dopant Cu2+ at Constant 0.1 mol% in Niâ€“Zn Spinel Structure. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1336-1346.	1.9	12
63	Murraya koenigii mediated synthesis of cobalt doped NiO nanoparticles: Evaluation of structural, optical properties and anti-bacterial activity. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 142, 115295.	1.3	12
64	Effects of Cr Doping Concentration on Structural, Morphology, Mechanical and Magnetic Properties of Electrodeposited NiCoCr Thin Films. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1094-1099.	1.9	11
65	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
66	Humic acid involved chelation of ZnO nanoparticles for enhancing mineral nutrition in plants. Solid State Communications, 2021, 333, 114355.	0.9	10
67	Shielding performance of Mn Ni0.8â€“Zn0.2Fe2O4 (0.1â‰¤xâ‰¤0.7) for electromagnetic interference (EMI) in X-band frequency. Ceramics International, 2022, 48, 9987-9997.	2.3	9
68	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
69	Microwave-assisted synthesis of Cd(OH)2/CdO nanorods: Effect of irradiation time. Superlattices and Microstructures, 2016, 90, 117-123.	1.4	8
70	The properties of Mnâ€“CuFe2O4 spinel ferrite nanoparticles under various synthesis conditions. Physics of the Solid State, 2017, 59, 1841-1851.	0.2	8
71	Structural, optical and electrical properties of pure and Fe doped V2O5 nanoparticles for junction diode fabrications. Journal of Materials Science: Materials in Electronics, 2018, 29, 9840-9853.	1.1	8
72	Structural, optical, thermal, biological and molecular docking studies of guanidine based naphthoate metal complexes. Surfaces and Interfaces, 2021, 24, 101094.	1.5	8

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73	Evaluation of gas sensor behaviour of Sm3+ doped TiO2 nanoparticles. Journal of Materials Science: Materials in Electronics, 2021, 32, 16854-16865.	1.1	7
74	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
75	Evaluation of phase, morphological, optical and electrical properties of microwave synthesized Sn doped CdO nanostructures. Solid State Communications, 2021, 336, 114388.	0.9	6
76	Preparation and magnetic properties of the nanosized Mnâ€“Ceâ€“Feâ€“O system. Materials Science in Semiconductor Processing, 2013, 16, 1701-1705.	1.9	5
77	Tailoring of Functionally Graded Mullite: La2O3 Coatings by Transferred Arc Plasma for Thermal Barrier Coatings. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2484-2493.	1.9	5
78	Study of Magnetic Behavior of Mn1-xNixFe2O4 Nanoparticles. Physics Procedia, 2013, 49, 27-35.	1.2	4
79	Size and Phase Purityâ€“Dependent Microstructural and Magnetic Properties of Spinel Ferrite Nanoparticles. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1239-1244.	0.8	4
80	Surfactant effects on structural, optical and morphological characteristics of microwave irradiated CdO nanostructures. Ceramics International, 2021, 47, 27274-27284.	2.3	4
81	New Epoxy-nano metal oxide-based coatings for enhanced corrosion protection. Journal of Molecular Structure, 2021, , 131790.	1.8	4
82	Investigations of Structural, Morphological, Optical and Antimicrobial Behaviour of Bi Doped CdO Nanostructures. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 280-288.	1.9	3
83	Effects of Heat Treatment on Structural, Optical and Magnetic Properties of Electro Deposited Feâ€“Niâ€“P Thin Films. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1787-1792.	1.9	2
84	Structural, Dielectric and Gas Sensing Properties of Mn-Ni Ferrite Nanoparticles. Springer Proceedings in Physics, 2017, , 135-143.	0.1	2
85	Preparation, characterization and ab-initio study of CdSnTe2 thin films by closed space sublimation technique. Superlattices and Microstructures, 2016, 90, 38-44.	1.4	1
86	Fabrication of Tin Oxide Nano-fibers by Electro Spinning Generator. Springer Proceedings in Physics, 2017, , 99-108.	0.1	0
87	Influence of carboxylic acids on structural, optical, thermal, and electrical properties of ferroelectric glycine phosphite single crystals. Journal of Materials Science: Materials in Electronics, 0, , .	1.1	0