

Sunil M Patange

List of Publications by Year in descending order

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50
papers

2,234
citations

186265

28
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

1661
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia gas sensing and magnetic permeability of enhanced surface area and high porosity lanthanum substituted Co ²⁺ /Zn nano ferrites. <i>Ceramics International</i> , 2022, 48, 15043-15055.	4.8	21
2	Influence of Cu ²⁺ /Mg substituted ZnFe ₂ O ₄ ferrite as a highly efficient nanocatalyst for dye degradation and 4-nitrophenol reduction. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110783.	4.0	19
3	Magnetically Separable Zn _{1-x} Cu _{0.5x} Mg _{0.5x} Fe ₂ O ₄ Ferrite: A Stable Catalyst for Reduction of 4-Nitrophenol. <i>ChemistrySelect</i> , 2022, 7, .	1.5	8
4	Effect of cobalt substitution in Zn _{1-x} Co _x FeCrO ₄ ferri-chromate: emerging light absorber for degradation of model textile dye. <i>Surfaces and Interfaces</i> , 2022, 33, 102189.	3.0	6
5	Synthesis and characterization of magnetically separable Zn _{1-x} Co _x FeMnO ₄ nanoferrites as highly efficient photocatalyst for degradation of dye under solar light irradiation. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 148, 109700.	4.0	37
6	Magnesium ferrichromate nanoparticles: an efficient and recyclable catalyst in the synthesis of pyrano[2,3-c]pyrazole derivatives. <i>Research on Chemical Intermediates</i> , 2021, 47, 2669-2687.	2.7	14
7	Ferrimagnetic to paramagnetic transition and dielectric relaxation in Ni _{1-x} Zn _x Fe ₂ O ₄ ferrites. <i>Ceramica</i> , 2021, 67, 139-144.	0.8	4
8	Synthesis of zinc oxide nanoparticles using <i>Chrysopogon zizanioides</i> grass extract, its applications in photodegradation and antimicrobial activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 20725-20741.	2.2	5
9	TiO ₂ -Doped Ni _{0.4} Cu _{0.3} Zn _{0.3} Fe ₂ O ₄ Nanoparticles for Enhanced Structural and Magnetic Properties. <i>ACS Omega</i> , 2021, 6, 17931-17940.	3.5	20
10	Magnetically recoverable CoFe _{1.9} Gd _{0.1} O ₄ ferrite/polyaniline nanocomposite synthesized via green approach for radar band absorption. <i>Ceramics International</i> , 2021, 47, 28240-28251.	4.8	14
11	Structural, Morphological, and Dielectric Evaluation of Co ²⁺ Doped Zinc Ferrite Aluminate. <i>Macromolecular Symposia</i> , 2021, 400, 2100103.	0.7	0
12	Role of composition and grain size in controlling the structure sensitive magnetic properties of Sm ³⁺ substituted nanocrystalline Co-Zn ferrites. <i>Journal of Rare Earths</i> , 2020, 38, 1069-1075.	4.8	37
13	Magnetically separable Zn _{1-x} Co _{0.5x} Mg _{0.5x} Fe ₂ O ₄ ferrites: stable and efficient sunlight-driven photocatalyst for environmental remediation. <i>RSC Advances</i> , 2020, 10, 42766-42776.	3.6	27
14	Influence of Ta ₂ O ₅ Doping on Electrical and Dielectric Properties of Nanocrystalline NiCuZn Spinel Ferrite. <i>Macromolecular Symposia</i> , 2020, 393, 1900161.	0.7	2
15	Influence of Zn-Zr substitution on the crystal chemistry and magnetic properties of CoFe ₂ O ₄ nanoparticles synthesized by sol-gel method. <i>Physica B: Condensed Matter</i> , 2020, 596, 412400.	2.7	8
16	Structural modifications in Co ²⁺ /Zn nanoferrites by Gd substitution triggering to dielectric and gas sensing applications. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156178.	5.5	30
17	The role of La ³⁺ substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166490.	2.3	45
18	Elastic, impedance spectroscopic and dielectric properties of TiO ₂ doped nanocrystalline NiCuZn spinel ferrites. <i>Phase Transitions</i> , 2019, 92, 790-797.	1.3	4

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19	Influence of Ta ₂ O ₅ additive on the structural, optical and magnetic properties of Ni-Cu-Zn nanocrystalline spinel ferrites. <i>Materials Research Express</i> , 2019, 6, 096103.	1.6	4
20	Effects of Zn ²⁺ -Zr ⁴⁺ ions on the structural, mechanical, electrical, and optical properties of cobalt ferrites synthesized via the sol-gel route. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 133, 171-177.	4.0	19
21	Polycrystalline to preferred-(100) single crystal texture phase transformation of yttrium iron garnet nanoparticles. <i>Nanoscale Advances</i> , 2019, 1, 403-413.	4.6	42
22	Crystal chemistry and single-phase synthesis of Gd ³⁺ substituted Co-Zn ferrite nanoparticles for enhanced magnetic properties. <i>RSC Advances</i> , 2018, 8, 25258-25267.	3.6	67
23	Inter-atomic bonding and dielectric polarization in Gd ³⁺ incorporated Co-Zn ferrite nanoparticles. <i>Physica B: Condensed Matter</i> , 2017, 510, 74-79.	2.7	30
24	Spectroscopic, elastic and dielectric properties of Ho ³⁺ substituted Co-Zn ferrites synthesized by sol-gel method. <i>Ceramics International</i> , 2016, 42, 16096-16102.	4.8	43
25	Spin glass behavior and enhanced but frustrated magnetization in Ho ³⁺ substituted Co-Zn ferrite interacting nanoparticles. <i>RSC Advances</i> , 2016, 6, 76590-76599.	3.6	28
26	Random site occupancy induced disordered Néel-type collinear spin alignment in heterovalent Zn ²⁺ -Ti ⁴⁺ ion substituted Co ₂ O ₄ . <i>RSC Advances</i> , 2015, 5, 91482-91492.	3.6	62
27	Ce ³⁺ incorporated structural and magnetic properties of M type barium hexaferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 378, 59-63.	2.3	64
28	Impact of larger rare earth Pr ³⁺ ions on the physical properties of chemically derived Pr _x CoFe _{2-x} O ₄ nanoparticles. <i>Chemical Physics</i> , 2014, 429, 20-26.	1.9	75
29	Elastic behaviour of Cr ³⁺ substituted Co-Zn ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 350, 39-41.	2.3	39
30	Role of Bi ₂ O ₃ Additives on the Microstructure Development and Magnetic Properties of NiCuZn-Tb Ferrites. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	9
31	Preparation and characterization of Co ²⁺ substituted Li-Dy ferrite ceramics. <i>Ceramics International</i> , 2013, 39, 5227-5234.	4.8	33
32	Less magnetic and larger Zr ⁴⁺ -Zn ²⁺ ions co-substituted structural and magnetic properties of ordered Li _{0.5} Fe _{2.5} O ₄ nanoparticles. <i>Materials Research Bulletin</i> , 2013, 48, 3530-3536.	5.2	14
33	Synthesis and magnetic properties of Cu _{0.7} Zn _{0.3} Al _x Fe _{2-x} O ₄ nanoferrites using egg-white method. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 339, 138-141.	2.3	3
34	Elastic properties of nanocrystalline aluminum substituted nickel ferrites prepared by co-precipitation method. <i>Journal of Molecular Structure</i> , 2013, 1038, 40-44.	3.6	94
35	Infrared spectral and elastic moduli study of NiFe _{2-x} Cr _x O ₄ nanocrystalline ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 325, 107-111.	2.3	62
36	Cation distribution investigation and characterizations of Ni _{1-x} Cd _x Fe ₂ O ₄ nanoparticles synthesized by citrate gel process. <i>Journal of Molecular Structure</i> , 2013, 1032, 105-110.	3.6	28

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37	Structure refinement, cation site location, spectral and elastic properties of Zn ²⁺ substituted NiFe ₂ O ₄ . Journal of Molecular Structure, 2012, 1024, 77-83.	3.6	70
38	Role of Cr ³⁺ ions on the microstructure development, and magnetic phase evolution of Ni _{0.7} Zn _{0.3} Fe ₂ O ₄ ferrite nanoparticles. Journal of Alloys and Compounds, 2012, 512, 316-322.	5.5	34
39	Cation distribution study of nanocrystalline NiFe ₂ Cr _x O ₄ ferrite by XRD, magnetization and Mössbauer spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 347-352.	1.8	70
40	Frequency and temperature dependent electrical properties of Ni _{0.7} Zn _{0.3} Cr _x Fe _{2-2x} O ₄ (0 ≤ x ≤ 0.5). Ceramics International, 2012, 38, 2963-2970.	4.8	34
41	PHYSICO-CHEMICAL, STRUCTURAL AND ELECTRICAL STUDIES OF Cu-Zn FERRITES SYNTHESIZED BY NOVEL CHEMICAL ROUTE. International Journal of Modern Physics B, 2011, 25, 2157-2166.	2.0	2
42	Autocombustion High-Temperature Synthesis, Structural, and Magnetic Properties of CoCr _x Fe _{2-2x} O ₄ (0 ≤ x ≤ 1.0). Journal of Physical Chemistry C, 2011, 115, 20905-20912.	3.1	119
43	Electrical and switching properties of NiAl _x Fe _{2-2x} O ₄ ferrites synthesized by chemical method. Physica B: Condensed Matter, 2011, 406, 663-668.	2.7	102
44	Doping effect of Mn ²⁺ on the magnetic behavior in Ni-Zn ferrite nanoparticles prepared by sol-gel auto-combustion. Journal of Physics and Chemistry of Solids, 2010, 71, 1669-1675.	4.0	172
45	Rietveld refinement and switching properties of Cr ³⁺ substituted NiFe ₂ O ₄ ferrites. Materials Letters, 2010, 64, 722-724.	2.6	57
46	Structural and electric properties of zinc substituted NiFe ₂ O ₄ nanoparticles prepared by co-precipitation method. Physica B: Condensed Matter, 2010, 405, 2610-2614.	2.7	48
47	Effect of Zn substitution on magnetic properties of nanocrystalline cobalt ferrite. Journal of Applied Physics, 2010, 108, .	2.5	158
48	Cation distribution by Rietveld, spectral and magnetic studies of Chromium-substituted nickel ferrites. Applied Physics A: Materials Science and Processing, 2009, 95, 429-434.	2.3	84
49	STRUCTURAL PROPERTIES AND CATION DISTRIBUTION OF Co-Zn NANOFERRITES. International Journal of Modern Physics B, 2009, 23, 5629-5638.	2.0	40
50	Structural investigations and magnetic properties of cobalt ferrite nanoparticles prepared by sol-gel auto combustion method. Solid State Communications, 2008, 147, 479-483.	1.9	225