Name of the Teacher : Dr. Pankaj P. Khirade

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.Sr. No.	Title of Research paper	Name of the Journal	Vol.no./Page No./Year	Link of the Research Paper
1	Multiferroic iron doped $BaTiO_3$ nanoceramics synthesized by sol-gel auto combustion: Influence of iron on physical properties	Ceramics International	Vol.42 pp 12441–1245, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
2	Room temperature ferromagnetism and photoluminescence of multifunctional Fe doped $BaZrO_3$ nanoceramics	Journal of Alloys and Compounds	Vol.691, pp 287-298, (2017)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
3	Synthesis, structural, morphological, optical and magnetic properties of $Zn_{1-x}Co_xO$ ($0 \leq x \leq 0.36$) nanoparticles synthesized by sol-gel auto combustion method	Journal of Alloys and Compounds	Vol.683, pp 513-526, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
4	Sol-gel auto combustion synthesis, electrical and dielectric properties of $Zn_{1-x}Co_xO$ ($0.0 \leq x \leq 0.36$) semiconductor nanoparticles	Journal of Alloys and Compounds	Vol.691, pp 355-363, (2017)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
5	Effect of Fe-substitution on phase transformation, optical, electrical and dielectrical properties of $BaTiO_3$ nanoceramics synthesized by sol-gel auto combustion method	Journal of Electroceramics	Vol.37.1-4: pp 110-120. (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ

6	Structural, electrical and dielectrical property investigations of Fe-doped $BaZrO_3$ nanoceramics	Journal of Electronic Materials	Vol.45(6), pp 3227-3235, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
7	Investigations on the synthesis, structural and microstructural characterizations of $Ba_{1-x}Sr_xZrO_3$ nanoceramics	Ferroelectrics	Vol. 1, pp 216-229, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
8	Structural, microstructural and magnetic properties of sol-gel synthesized novel $BaZrO_3$ – $CoFe_2O_4$ nanocomposite	Journal of Nanostructure in Chemistry	Vol.9, pp. 1-11, (2019)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
9	Presence of intrinsic defects and transition from diamagnetic to ferromagnetic state in Co^{2+} ions doped ZnO nanoparticles	Journal of Materials Science: Materials in Electronics	Vol. 27, pp 5575–5583, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
10	Structural, microstructural and magnetic studies on magnesium (Mg^{2+})-substituted $CoFe_2O_4$ nanoparticles	Journal of Superconductivity and Novel Magnetism	Vol.29, pp 1025–1032, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
11	Structural, magnetic and dielectrical properties of Al-Cr co-substituted M-type barium hexaferrite nanoparticles	Journal of Molecular Structure	Vol. 1106, pp 460-467, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ

12	Electrical and dielectrical properties of low-temperature-synthesized nanocrystalline Mg^{2+}-substituted cobalt spinel ferrite	Journal of Superconductivity and Novel Magnetism	Vol.28, pp 3351–3356, (2015)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
13	Influence of Al–Cr co-substitution on physical properties of strontium hexaferrite nanoparticles synthesized by sol–gel auto combustion method	Journal of Materials Science: Materials in Electronics	Vol. 28(1), pp 407-417, (2017)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
14	Effect of iron oxide (Fe_2O_3) on the structural, optical, electrical and dielectric properties of SrO-V_2O_5 glasses	Glass Physics and Chemistry	Vol.43(4), pp.302-312, (2017)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
15	Effect of Fe^{3+} substitution on structural and magnetic properties of barium titanate nanoceramics	Bionano Frontiers	Vol.8 (3), 154-156, (2015)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
16	Structural, Electrical, Dielectric and Magnetic Properties of Al^{3+} Substituted Ni-Zn Ferrite	Journal of Superconductivity and Novel Magnetism	Vol.29, pp.1331–1337, (2016)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
17	Structural, Microstructural, Magnetic, and Ferroelectric Properties of Ba^{2+}-Doped $BiFeO_3$ Nanocrystalline Multifferroic Material	Journal of Superconductivity and Novel Magnetism	Vol.31, no. 8, pp 2501-2509, (2018)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ

18	Temperature dependent viscosity of cobalt ferrite/ethylene glycol ferrofluids	AIP Conference Proceedings	Vol. 1942, no. 1, pp. 050044.	---
19	Doping Effect of Fe Ions on the Structural, Electrical, and Magnetic Properties of $SrTiO_3$ Nanoceramic Matrix	Journal of Superconductivity and Novel Magnetism	Vol.32(5), pp.1395-1406, (2018)	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
20	Rietveld refinement and electrical properties of $LiTiFeO_4$	AIP Conference Proceedings	Vol. 1832, no. 1, pp. 050123. (2017).	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
21	Influence of Trivalent Cr ion Substitution on Physicochemical, Optical, Electrical and Dielectric Parameters of Sprayed $NiFe_2O_4$ Spinel-Magnetic Thin Films	RSC Advances	10, no. 42 (2020): 25143-25154.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
22	Induction Heating Analysis of Surface-Functionalized Nanoscale $CoFe_2O_4$ for Magnetic Fluid Hyperthermia toward Noninvasive Cancer Treatment	ACS omega	Vol. 5, no. 36 (2020): 23378-23384.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
23	Sol–gel auto-ignition fabrication of Gd^{3+} incorporated $Ni_{0.5}Co_{0.5}Fe_2O_4$ multifunctional spinel ferrite nanocrystals and its impact on structural, optical and magnetic properties	SN Applied Sciences	Vol. 2, no. 10 (2020): 1-12.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ

24	Enhanced solar-cell efficiency via fabricated zinc sulfide nanocrystalline thin film-based Schottky diodes as a bypass: An experimental and theoretical investigations	Solar Energy	211 (2020): 866-878.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
25	Green Synthesis of $Ba_{1-x}Sr_xTiO_3$ ceramic nanopowders by sol-gel combustion method using lemon juice as a fuel: Tailoring of Microstructure, ferroelectric, dielectric and electrical properties	Optical Materials	(2020): 110664.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
26	Tuning of physical properties of multifunctional Mg-Zn spinel ferrite nanocrystals: A comparative investigations manufactured via conventional ceramic versus green approach sol-gel combustion route	Materials Research Express	(2020), 7, 116102	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
27	Eco-friendly green synthesis and characterizations of $CoFe_{2-x}Al_xO_4$ nanocrystals: analysis of structural, magnetic, electrical, and dielectric properties",	Journal of Nanostructure in Chemistry	(2021), 1-13	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
28	Gamma radiation shielding characteristics of various spinel ferrite nanocrystals: a combined experimental and theoretical investigation	RSC Advances	11(14) 2021, pp.7925-7937	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
29	Structural, electrical and dielectric investigations of cerium doped barium zirconate ($BaZrO_3$) nano-ceramics produced via green synthesis: Probable candidate for solid oxide	Physica B: Condensed Matter	613 (2021): 412948.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ

	fuel cells and microwave applications			
30	50 kGy–100 kGy 60 Co γ-irradiation effects on structural and DC-electrical properties of sol–gel synthesized ZnF NPs.	Journal of Materials Science: Materials in Electronics	32, no. 8 (2021): 11017-11027.	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
31	Fabrication of Ferrite Core Inductors Utilizing Sol-Gel-Produced La3+ Doped CoFe2O4 Nanomaterias.	Journal of Electronic Materials	2024	https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ
32	Structural, microstructural and optical characteristics of rGO-ZnO nanocomposites via hydrothermal approach	Optical Materials	2024	
33	Experimental, theoretical and numerical simulation-based investigations on the fabricated Cu2ZnSn thin-film-based Schottky diodes with enhanced electron transport for solar cell	Scientific Reports	2024	