

**Name of the Teacher - Dr. P.P. Khirade**

Goggle Scholar Link -<https://scholar.google.com/citations?hl=en&user=0sg6iBAAAAAJ>,

Sr. No.	Title of Research Paper	Name of Journal	Year	Link of the Research Paper
1	Eco-friendly green synthesis and characterizations of $\text{CoFe}_{2-x}\text{Al}_x\text{O}_4$ nanocrystals: analysis of structural, magnetic, electrical, and dielectric properties	Journal of Nanostructure in Chemistry	2021	<a href="https://link.springer.com/article/10.1007/s40097-020-00381-7">https://link.springer.com/article/10.1007/s40097-020-00381-7</a>
2	Gamma radiation shielding characteristics of various spinel ferrite nanocrystals: a combined experimental and theoretical investigation	RSC Advances	2021	<a href="https://pubs.rsc.org/en/content/articlehtml/2021/ra/d0ra08372k">https://pubs.rsc.org/en/content/articlehtml/2021/ra/d0ra08372k</a>
3	Structural, electrical and dielectric investigations of cerium doped barium zirconate ( $\text{BaZrO}_3$ ) nano-ceramics produced via green synthesis: Probable candidate for solid oxide fuel cells and microwave applications	Physica B: Condensed Matter	2021	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0921452621001368">https://www.sciencedirect.com/science/article/abs/pii/S0921452621001368</a>
4	50 kGy–100 kGy $^{60}\text{Co}$ $\gamma$ -irradiation effects on structural and DC-electrical properties of sol–gel synthesized ZnF NPs.	Journal of Materials Science: Materials in Electronics	2021	<a href="https://link.springer.com/article/10.1007/s10854-021-05760-6">https://link.springer.com/article/10.1007/s10854-021-05760-6</a>
5	Diverse physical characteristics of mixed Li–Mg spinel ferrite thin films fabricated by spray pyrolysis technique	Physica B: Condensed Matter	2021	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0921452621002659">https://www.sciencedirect.com/science/article/abs/pii/S0921452621002659</a>
6	Influence of Trivalent Cr ion Substitution on Physicochemical, Optical, Electrical and Dielectric Parameters of Sprayed $\text{NiFe}_2\text{O}_4$ Spinel-Magnetic Thin Films	RSC Advances	2020	<a href="https://doi.org/10.1039/D0RA04319B">https://doi.org/10.1039/D0RA04319B</a>
7	Hyperthermic evaluation of oleic acid coated nano-spinel magnesium ferrite: enhancement via hydrophobic-to-hydrophilic surface transformation	Journal of Alloys and Compounds	2020	<a href="https://doi.org/10.1016/j.jallcom.2020.155422">https://doi.org/10.1016/j.jallcom.2020.155422</a>
8	Induction Heating Analysis of Surface-Functionalized Nanoscale $\text{CoFe}_2\text{O}_4$ for Magnetic Fluid Hyperthermia toward Noninvasive Cancer Treatment	ACS Omega	2020	<a href="https://doi.org/10.1021/acsomega.0c03332">https://doi.org/10.1021/acsomega.0c03332</a>

9	Sol-gel auto-ignition fabrication of Gd <sup>3+</sup> incorporated Ni <sub>0.5</sub> Co <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> multifunctional spinel ferrite nanocrystals and its impact on structural, optical and magnetic properties	SN Applied Sciences	2020	<a href="https://doi.org/10.1007/s42452-020-03505-4">https://doi.org/10.1007/s42452-020-03505-4</a>
10	Enhanced solar-cell efficiency via fabricated zinc sulfide nanocrystalline thin film-based Schottky diodes as a bypass: An experimental and theoretical investigations	Solar Energy	2020	<a href="https://doi.org/10.1016/j.solener.2020.10.018">https://doi.org/10.1016/j.solener.2020.10.018</a>
11	Green Synthesis of Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> ceramic nanopowders by sol-gel combustion method using lemon juice as a fuel: Tailoring of Microstructure, ferroelectric, dielectric and electrical properties	Optical Materials	2020	<a href="https://doi.org/10.1016/j.optmat.2020.10664">https://doi.org/10.1016/j.optmat.2020.10664</a>
12	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	<a href="https://doi.org/10.1088/2053-1591/abca6c">https://doi.org/10.1088/2053-1591/abca6c</a>
13	Radiation interaction properties of various polymers, saturated and unsaturated fatty acids: A comparative investigation of Monte Carlo simulation and NISTXCOM	Journal of Physics: Conference Series	2020	<a href="https://doi.org/10.1088/1742-6596/1644/1/012024">https://doi.org/10.1088/1742-6596/1644/1/012024</a>
14	Effect of Magnetic Field on Thermal Conductivity of the Cobalt Ferrite Magnetic Nanofluids	Journal of Physics: Conference Series	2020	<a href="https://doi.org/10.1088/1742-6596/1644/1/012028">https://doi.org/10.1088/1742-6596/1644/1/012028</a>
15	Structural, microstructural and magnetic properties of sol-gel synthesized novel BaZrO <sub>3</sub> – CoFe <sub>2</sub> O <sub>4</sub> nanocomposite	Journal of Nanostructure in Chemistry – Springer,	2019	<a href="https://doi.org/10.1007/s40097-019-0307-8">https://doi.org/10.1007/s40097-019-0307-8</a>

