DAFTAR PUSTAKA

Abdel Maksoud, M. I. A., El-Sayyad, G. S., Abokhadra, A., Soliman, L. I., El-Bahnasawy, H. H., & Ashour, A. H. (2020). Influence of Mg^{2+} substitution on structural, optical, magnetic, and antimicrobial properties of Mn–Zn ferrite nanoparticles. *Journal of Materials Science: Materials in Electronics*, *31*(3), 2598–2616. https://doi.org/10.1007/s10854-019-02799-4

Abdo, M. A., Al-Wafi, R., & AlHammad, M. S. (2023). Highly efficient visible light driven photocatalytic activity of rare earth cerium doped zinc-manganese ferrite: Rhodamine B degradation and stability assessment. *Ceramics International*, *49*(17), 29245–29258. https://doi.org/10.1016/j.ceramint.2023.06.213

Abouhaswa, A. S., Badr, M. H., El komy, G. M., & Abomostafa, H. M. (2024). Influence of the Mn/Fe ratio on structural, optical, electrical and magnetic characteristics of MnFeMgNiO spinel ferrites. *Inorganic Chemistry Communications*, *166*(January). https://doi.org/10.1016/j.inoche.2024.112647

Altarawneh, A. M., Arrasheed, E. A., Ajlouni, A., Ghazy, R., Hemeda, O. M., Henaish, A. M. A., & Mostafa, M. (2023). Correlation between structural , cation distribution with dielectric spectra and magnetic properties for Co – Zn ferrite doped with La^{3+} ions. *Ceramics International*, *49*(9PA), 14215–14224. https://doi.org/10.1016/j.ceramint.2023.01.008

Ansari, M. R., Kem, A., Agrohi, P., Mallick, P. K., Rao, P., & Peta, K. R. (2023). Structural, optical, magnetic and anti-bacterial properties of green synthesized spinel zinc ferrite by microwave-assisted method. *Materials Chemistry and Physics*, *301*(August 2022), 127641. https://doi.org/10.1016/j.matchemphys.2023.127641

Arief, S., Wellia, D. V., & Ohya, Y. (2015). Hydrothermal synthesized Ag nanoparticles using bioreductor of gambier leaf extract (Uncaria gambier Roxb). *Journal of Chemical and Pharmaceutical Research*, *7*(9), 189–192. www.jocpr.com

Arshad, M., Khalid, M., Younas, M., Uddin, Z., Ullah, W., Boukhris, I., Ashiq, M. G. B., & Aziz, F. (2024). Physical properties of La^{3+} ion doped Ni-Zn based spinel ferrite nanomaterials for technological applications. *Materials Characterization*, *215*(May). https://doi.org/10.1016/j.matchar.2024.114210

Bahhar, S., Lemziouka, H., Boutahar, A., Bioud, H., Lassri, H., & Hlil, E. K. (2019). Influence of La^{3+} site substitution on the structural, magnetic and magnetocaloric properties of $ZnFe_{2-x}La_xO_4$ (x = 0.00, 0.001, 0.005 and 0.01) spinel zinc ferrites. *Chemical Physics Letters*, *716*(October 2018), 186–191. https://doi.org/10.1016/j.cplett.2018.12.025

Bakhshi, H., Vahdati, N., Sedghi, A., & Mozharivskyj, Y. (2019). Comparison of the effect of nickel and cobalt cations addition on the structural and magnetic properties of manganese-zinc ferrite nanoparticles. *Journal of Magnetism and Magnetic Materials*, *474*(November 2018), 56–62. https://doi.org/10.1016/j.jmmm.2018.10.146

Cahyana, A. H., Liandi, A. R., Yulizar, Y., Romdoni, Y., & Wendari, T. P. (2021). Green synthesis of $CuFe_2O_4$ nanoparticles mediated by Morus alba L. leaf extract: Crystal structure, grain morphology, particle size, magnetic and catalytic properties in Mannich reaction. *Ceramics International*, *47*(15),

21373–21380. https://doi.org/10.1016/j.ceramint.2021.04.146

Chen, T., Foo, C., & Tsang, S. C. E. (2021). Interstitial and substitutional light elements in transition metals for heterogeneous catalysis. *Chemical Science*, *12*(2), 517–532. https://doi.org/10.1039/d0sc06496c

Das, K. C., Das, B., & Dhar, S. S. (2020). Effective Catalytic Degradation of Organic Dyes by Nickel Supported on Hydroxyapatite-Encapsulated Cobalt Ferrite (Ni/HAP/$CoFe_2O_4$) Magnetic Novel Nanocomposite. *Water, Air, and Soil Pollution*, *231*(2), 1–13. https://doi.org/10.1007/s11270-020-4409-1

Das, K. C., & Dhar, S. S. (2020). Remarkable catalytic degradation of malachite green by zinc supported on hydroxyapatite encapsulated magnesium ferrite (Zn/HAP/$MgFe_2O_4$) magnetic novel nanocomposite. *Journal of Materials Science*, *55*(11), 4592–4606. https://doi.org/10.1007/s10853-019-04294-x

Ebrahimi, H. R., & Branch, M. (2015). Photodecomposition of direct red 81 (5-solamin) by using nano sized zinc oxide deposited on glass beads in neutral and alkaline pH and various atmospheres. *Iranian Journal of Environmental Technology*, *1*(1), 49–54.

Elsya, S. A. R., Zulhadjri, Z., & Arief, S. (2019). Pendekatan Green Synthesis Nanopartikel $CuFe_2O_4$ Dengan Bantuan Ekstrak Daun Gambir Dan Sifat Anti Bakterinya. *Jurnal Kimia Dan Kemasan*, *41*(2), 55. https://doi.org/10.24817/jkk.v41i2.5417

Falkowski, M., Künneth, C., Materlik, R., & Kersch, A. (2018). Unexpectedly large energy variations from dopant interactions in ferroelectric HfO_2 from high-throughput ab initio calculations. *Npj Computational Materials*, *4*(1), 1–9. https://doi.org/10.1038/s41524-018-0133-4

Gingasu, D., Culita, D. C., Calderon Moreno, J. M., Marinescu, G., Bartha, C., Oprea, O., Preda, S., Chifiriuc, M. C., & Popa, M. (2023). Synthesis of $CoFe_2O_4$ through Wet Ferritization Method Using an Aqueous Extract of Eucalyptus Leaves. *Coatings*, *13*(7), 1–15. https://doi.org/10.3390/coatings13071250

Gonçalves, J. M., de Faria, L. V., Nascimento, A. B., Germscheidt, R. L., Patra, S., Hernández-Saravia, L. P., Bonacin, J. A., Munoz, R. A. A., & Angnes, L. (2022). Sensing performances of spinel ferrites MFe_2O_4 (M = Mg, Ni, Co, Mn, Cu and Zn) based electrochemical sensors: A review. *Analytica Chimica Acta*, *1233*(September). https://doi.org/10.1016/j.aca.2022.340362

Han, L., Zhou, X., Wan, L., Deng, Y., & Zhan, S. (2014). Synthesis of $ZnFe_2O_4$ nanoplates by succinic acid-assisted hydrothermal route and their photocatalytic degradation of rhodamine B under visible light. *Journal of Environmental Chemical Engineering*, *2*(1), 123–130. https://doi.org/10.1016/j.jece.2013.11.031

Hirosawa, F., & Iwasaki, T. (2021). A comparative study of the magnetic induction heating properties of rare earth (RE = Y, La, Ce, Pr, Nd, Gd and Yb)-substituted magnesium–zinc ferrites. *Solid State Sciences*, *118*(May), 106655. https://doi.org/10.1016/j.solidstatesciences.2021.106655

Ibeniaich, M., Elansary, M., Minaoui, K., Mouhib, Y., Haj, Y. A. El, Belaiche, Y., Oulhakem, O., Iffer, E., Ferdi, C. A., Lemine, O. M., Salameh, B., Alsmadi, A. M., & Alaoui, K. B. (2024). Exploring the effect of Hf (IV) doping in spinel ferrite $CoHf_xFe_{2-x}O_4$ on magnetic properties, electrochemical impedance, and photocatalytic activity: In-depth structural study. *Journal of Molecular*

Structure, *1318*(April). https://doi.org/10.1016/j.molstruc.2024.139395

Ibrahim, M., Labaki, M., Giraudon, J. M., & Lamonier, J. F. (2020). Hydroxyapatite, a multifunctional material for air, water and soil pollution control: A review. *Journal of Hazardous Materials*, *383*(August 2019), 121139. https://doi.org/10.1016/j.jhazmat.2019.121139

Jadhav, S. A., Khedkar, M. V., Andhare, D. D., Gopale, S. B., & Jadhav, K. M. (2021). Visible light photocatalytic activity of magnetically diluted Ni–Zn spinel ferrite for active degradation of rhodamine B. *Ceramics International*, *47*(10), 13980–13993. https://doi.org/10.1016/j.ceramint.2021.01.267

Jadhav, S. A., Somvanshi, S. B., Khedkar, M. V., Patade, S. R., & Jadhav, K. M. (2020). Magneto-structural and photocatalytic behavior of mixed Ni–Zn nano-spinel ferrites: visible light-enabled active photodegradation of rhodamine B. *Journal of Materials Science: Materials in Electronics*, *31*(14), 11352–11365. https://doi.org/10.1007/s10854-020-03684-1

Jagadeesha Angadi, V., Manjunatha, K., Praveena, K., Pattar, V. K., Jeevan Fernandes, B., Manjunatha, S. O., Husain, J., Angadi, S. V., Horakeri, L. D., & Ramesh, K. P. (2021). Magnetic properties of larger ionic radii samarium and gadalonium doped manganese zinc ferrite nanoparticles prepared by solution combustion method. *Journal of Magnetism and Magnetic Materials*, *529*(February). https://doi.org/10.1016/j.jmmm.2021.167899

Jain, P., Shankar, S., & Thakur, O. P. (2024). Unveiling the structural, optical, electrical, and ferromagnetic properties of Ca^{2+} doped mixed spinel ferrites for switching field high-frequency device applications. *Ceramics International*, *50*(September), 48354–48372. https://doi.org/10.1016/j.ceramint.2024.09.185

Jangam, K., Balgude, S., Pawar, H., Patange, S., & More, P. (2022). Effect of cobalt substitution in $Zn_{1-x}Co_xFeCrO_4$ ferri-chromate : emerging light absorber for degradation of model textile dye. *Surfaces and Interfaces Journal*, *33*, 102189 Contents.

Jun, B. M., Elanchezhiyan, S. S., Yoon, Y., Wang, D., Kim, S., Muthu Prabhu, S., & Park, C. M. (2020). Accelerated photocatalytic degradation of organic pollutants over carbonate-rich lanthanum-substituted zinc spinel ferrite assembled reduced graphene oxide by ultraviolet (UV)-activated persulfate. *Chemical Engineering Journal*, *393*(January), 124733. https://doi.org/10.1016/j.cej.2020.124733

Kamal, S., Susanti, M., Febriyenti, Zaini, E., & Hamidi, D. (2022). Simultaneous TLC-densitometric analysis of catechin, pyrocatechol and quercetine in gambir block from Pesisir Selatan. *Heliyon*, *8*(3), e08985. https://doi.org/10.1016/j.heliyon.2022.e08985

Kasim, A., Malrianti, Y., Derosya, V., & Syukri, D. (2019). Gc-ms screening of valuable volatile compounds in the waste of uncaria gambir. *Annals of Biology*, *35*(2), 242–245.

Keerthana, S. P., Yuvakkumar, R., Ravi, G., Pavithra, S., Thambidurai, M., Dang, C., & Velauthapillai, D. (2021). Pure and Ce-doped spinel $CuFe_2O_4$ photocatalysts for efficient rhodamine B degradation. *Environmental Research*, *200*(June), 111528. https://doi.org/10.1016/j.envres.2021.111528

Kuppusamy, P., Ichwan, S. J. A., Parine, N. R., Yusoff, M. M., Maniam, G. P., & Govindan, N. (2015). Intracellular biosynthesis of Au and Ag nanoparticles using ethanolic extract of Brassica oleracea L. and studies on their

physicochemical and biological properties. *JES*, *06*(June), 1–7. https://doi.org/10.1016/j.jes.2014.06.050

Labanni, A., Zulhadjri, Handayani, D., Ohya, Y., & Arief, S. (2020). Size controlled synthesis of well-distributed nano-silver on hydroxyapatite using alkanolamine compounds. *Ceramics International*, *46*(5), 5850–5855. https://doi.org/10.1016/j.ceramint.2019.11.035

Latif, S., Liaqat, A., Imran, M., Javaid, A., Hussain, N., Jesionowski, T., & Bilal, M. (2023). Development of zinc ferrite nanoparticles with enhanced photocatalytic performance for remediation of environmentally toxic pharmaceutical waste diclofenac sodium from wastewater. *Environmental Research*, *216*(P2), 114500. https://doi.org/10.1016/j.envres.2022.114500

Li, B., Li, X., Gao, W., & Jiang, Q. (2021). An effective scheme to determine surface energy and its relation with adsorption energy. *Acta Materialia*, *212*. https://doi.org/10.1016/j.actamat.2021.116895

Madhukara Naik, M., Bhojya Naik, H. S., Nagaraju, G., Vinuth, M., Raja Naika, H., & Vinu, K. (2019). Green synthesis of zinc ferrite nanoparticles in Limonia acidissima juice: Characterization and their application as photocatalytic and antibacterial activities. *Microchemical Journal*, *146*(February), 1227–1235. https://doi.org/10.1016/j.microc.2019.02.059

Malrianti, Y., Kasim, A., & a, N. (2018). Tannins and Catechins Content of Gambier (Uncaria Gambier Roxb) in Relation With Adhesive Qualities and Bonding Strength of Cold Setting Glue. *International Journal of Advanced Research*, *6*(12), 622–627. https://doi.org/10.21474/ijar01/8181

Manohar, A., Vijayakanth, V., Vattikuti, S. V. P., & Kim, K. H. (2023). Structural, BET and EPR properties of mixed zinc-manganese spinel ferrites nanoparticles for energy storage applications. *Ceramics International*, *49*(12), 19717–19727. https://doi.org/10.1016/j.ceramint.2023.03.089

Mariosi, F. R., Venturini, J., da Cas Viegas, A., & Bergmann, C. P. (2020). Lanthanum-doped spinel cobalt ferrite ($CoFe_2O_4$) nanoparticles for environmental applications. *Ceramics International*, *46*(3), 2772–2779. https://doi.org/10.1016/j.ceramint.2019.09.266

Masoudpanah, S. M., Hasheminisari, M., & Ghasemi, A. (2016). Magnetic properties and photocatalytic activity of $ZnFe_{2-x}La_xO_4$ nanoparticles synthesized by sol–gel autocombustion method. *Journal of Sol-Gel Science and Technology*, *80*(2), 487–494. https://doi.org/10.1007/s10971-016-4101-5

Masuku, M., Nure, J. F., Atagana, H. I., Hlongwa, N., & Nkambule, T. T. I. (2024). Advancing the development of nanocomposite adsorbent through zinc-doped nickel ferrite-pinecone biochar for removal of chromium (VI) from wastewater. *Science of the Total Environment*, *908*(November 2023), 168136. https://doi.org/10.1016/j.scitotenv.2023.168136

Masuku, S. J. C., Msomi, J. Z., Nhlapo, T. A., & Moyo, T. (2024). The effect of particle size on structural and magnetic properties of $Zn_{0.5}Co_{0.5}Fe_2O_4$ prepared by glycol-thermal technique. *Solid State Sciences*, *148*(October 2023), 107424. https://doi.org/10.1016/j.solidstatesciences.2023.107424

Meena, S., Renuka, L., Anantharaju, K. S., Vidya, Y. S., Nagaswarupa, H. P., Prashantha, S. C., & Nagabhushana, H. (2017). Optical, Electrochemical and Photocatalytic Properties of Sunlight Driven Cu doped Manganese Ferrite Synthesized by Solution Combustion Synthesis. *Materials Today:*

Proceedings, *4*(11), 11773–11781. https://doi.org/10.1016/j.matpr.2017.09.094

Mishra, B., Munisha, B., Nanda, J., Sankaran, K. J., & Suman, S. (2022). Hydrothermally Synthesized Magnesium doped Zinc Ferrite Nanoparticles: An extensive study on structural, optical, magnetic, and dielectric properties. *Materials Chemistry and Physics*, *292*(August). https://doi.org/10.1016/j.matchemphys.2022.126791

Mohsin, M., Ansari, N., Quddus, A., & Khan, S. (2023). Structural, optical, and electrical properties of $Mn_{0.9}La_{0.1}Fe_2O_4$ nanocrystalline ferrites and its synthesis through sol-gel method. *Materials Today: Proceedings Journal*, *xxxx*, 9–12.

Monica, S., & Husna, Z. (2022). Antibacterial activity test of (+)-katekin and gambir (uncaria gambier roxb.) against some types of grambled bacteries negative bacteria and their mechanism. *International Journal on Health and Medical Sciences*, *1*(1), 29–37.

Monisha, P., & Gomathi, S. S. (2024). Materials Science in Semiconductor Processing Improved photocatalytic performance in Ce^{3+} doped $CoFe_2O_4$ nanoparticles by modifying structural , optical , and magnetic properties. *Materials Science in Semiconductor Processing*, *176*(December 2023), 108328. https://doi.org/10.1016/j.mssp.2024.108328

Mugutkar, A. B., Gore, S. K., Tumberphale, U. B., Jadhav, V. V., Mane, R. S., Patange, S. M., Shaikh, S. F., Ubaidullah, M., Al-Enizi, A. M., & Jadhav, S. S. (2020). The role of La^{3+} substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites. *Journal of Magnetism and Magnetic Materials*, *502*(June 2019). https://doi.org/10.1016/j.jmmm.2020.166490

Mulyawan, A., Dewi, S. H., Yunasfi, Winatapura, D. S., Mashadi, & Adi, W. A. (2023). The effects of lanthanum ions substitution on properties and effective absorption bandwidth (EAB) of zinc ferrite. *Journal of Solid State Chemistry*, *327*(February), 124275. https://doi.org/10.1016/j.jssc.2023.124275

Munggari, I. P., Kurnia, D., Deawati, Y., & Julaeha, E. (2022). Current Research of Phytochemical, Medicinal and Non-Medicinal Uses of Uncaria gambir Roxb.: A Review. *Molecules*, *27*(19). https://doi.org/10.3390/molecules27196551

Naik, P. P., Hasolkar, S. S., Kothawale, M. M., & Keluskar, S. H. P. (2020). Altering saturation magnetization of manganese zinc ferrite nanoparticles by doping with rare earth Nd^{3+} ions. *Physica B: Condensed Matter*, *584*(February). https://doi.org/10.1016/j.physb.2020.412111

Othman Ali, I., & Mostafa, A. G. (2015). Photocatalytic reduction of chromate oxyanions on $MMnFe_2O_4$ (M=Zn, Cd) nanoparticles. *Materials Science in Semiconductor Processing*, *33*, 189–198. https://doi.org/10.1016/j.mssp.2015.01.030

Palacio Gómez, C. A., Barrero Meneses, C. A., & Jaén, J. A. (2020). Raman, infrared and Mössbauer spectroscopic studies of solid-state synthesized Ni-Zn ferrites. *Journal of Magnetism and Magnetic Materials*, *505*(April 2019), 166710. https://doi.org/10.1016/j.jmmm.2020.166710

Patil, B. B. (2023). A review: Influence of divalent, trivalent, rare earth and additives ions on Ni–Cu–Zn ferrites. *Journal of the Indian Chemical Society*,

100(1). https://doi.org/10.1016/j.jics.2022.100811

Putri, Y. E., Andriani, N., Wendari, T. P., Said, S. M., Wellia, D. V., Refinel, Hidayat, A., & Sofyan, N. (2023). Tunable morphology of strontium titanate nanocubes controlled by tert-butylamine-assisted solvothermal method and their enhanced electrical conductivity. *Ceramics International*, *49*(6), 9909–9915. https://doi.org/10.1016/j.ceramint.2022.11.166

Qin, H., He, Y., Xu, P., Huang, D., Wang, Z., & Wang, H. (2021). Spinel ferrites (MFe_2O_4): Synthesis , improvement and catalytic application in environment and energy field. *Advances in Colloid and Interface Science*, *294*(July), 102486.

Rafiquea, T., Atifa, M., Rehmana, A. U., Wahabb, H., Khalida, W., Alia, Z., & M. Nadeem. (2022). Colossal permittivity, resistive and magnetic properties of zinc substituted manganese ferrites. *Journal of Alloys and Compounds*, *404–406*(SPEC. ISS.), 1. https://doi.org/10.1016/j.jallcom.2005.05.002

Rahmayeni, Azizah, N., Stiadi, Y., Putri, Y. E., & Zulhadjri. (2022). Magnetic Particles Nanorod of $ZnO/CuFe_2O_4$ Prepared by Green Synthesized Approach: Structural, Optical and Magnetic Properties, and Photocatalytic Activity. *Materials Research*, *25*. https://doi.org/10.1590/1980-5373-MR-2021-0164

Rahmayeni, Febrialita, R., Stiadi, Y., Putri, Y. E., Sofyan, N., & Zulhadjri. (2021). Simbang Darah (Iresine herbstii) extract mediated hydrothermal method in the synthesis of zinc ferrite spinel nanoparticles used for photocatalysis and antibacterial applications. *Journal of Environmental Chemical Engineering*, *9*(2). https://doi.org/10.1016/j.jece.2021.105140

Rahmayeni, Putri, J., Stiadi, Y., Zilfa, & Zulhadjri. (2019). Green synthesis of $NiFe_2O_4$ spinel ferrites magnetic in the presence of Hibiscus rosa-sinensis leaves extract: Morphology, structure and activity. *Rasayan Journal of Chemistry*, *12*(4), 1942–1949. https://doi.org/10.31788/RJC.2019.1245304

Rahmayeni, Wendari, T. P., Atmoko, H. M., Stiadi, Y., Putri, Y. E., & Zulhadjri. (2023). $CuFe_2O_4$/activated carbon nanocomposite for efficient photocatalytic degradation of dye: Green synthesis approaches using the waste of oil palm empty bunches and bio-capping agent. *Case Studies in Chemical and Environmental Engineering*, *7*(January), 100305. https://doi.org/10.1016/j.cscee.2023.100305

Rosales-González, O., Bolarín-Miró, A. M., Cortés-Escobedo, C. A., Pedro-García, F., Patiño-Pineda, J. A., & Sánchez-De Jesús, F. (2023). Synthesis of a magnetically removable visible-light photocatalyst based on nickel-doped zinc ferrite. *Ceramics International*, *49*(4), 6006–6014. https://doi.org/10.1016/j.ceramint.2022.10.101

S. G, D., & B, M. (2024). A comprehensive review on current trends in greener and sustainable synthesis of ferrite nanoparticles and their promising applications. *Results in Engineering*, *21*(December 2023). https://doi.org/10.1016/j.rineng.2023.101702

Sakthipandi, K., Venkatesan, K., Sivakumar, R., Rajkumar, G., Ganesh Babu, B., Arunmetha, S., Hossain, A., Srinidhi Raghavan, M., & Rajendran, V. (2024). Exploring the impact of rare-earth (La^{3+}) ions doping on structural, magnetic, and dielectric properties of Co0.50Ni0.50LaxFe2-xO4 nano-spinel ferrite. *Journal of Alloys and Compounds*, *981*(February), 1–9. https://doi.org/10.1016/j.jallcom.2024.173708

Shakil, M., Inayat, U., Ashraf, M., Tanveer, M., Gillani, S. S. A., & Dahshan, A. (2023). Photocatalytic performance of novel zinc ferrite/copper sulfide composites for the degradation of Rhodamine B dye from wastewater using visible spectrum. *Optik*, *272*(October 2022), 170353. https://doi.org/10.1016/j.ijleo.2022.170353

Sharma, M., Ahmed, A., Singh, A., Lalotra, N., Dubey, A., Arya, S., & Kamni. (2024). Combustion synthesis, structural and electrochemical studies on the dysprosium-doped cobalt ferrite nanoparticles to investigate its performance as a supercapacitor electrode. *Materials Chemistry and Physics*, *324*(June). https://doi.org/10.1016/j.matchemphys.2024.129676

Sumalatha, E., Hari kumar, N., Edukondalu, A., & Ravinder, D. (2022). Effect of La^{3+} ion doped Co-Zn nano ferrites: Structural, optical, electrical and magnetic properties. *Inorganic Chemistry Communications*, *146*(August), 110200. https://doi.org/10.1016/j.inoche.2022.110200

Suvaci, E., & Özel, E. (2021). Hydrothermal synthesis. *Encyclopedia of Materials: Technical Ceramics and Glasses*, *1–3*, 59–68. https://doi.org/10.1016/B978-0-12-803581-8.12096-X

Tangcharoen, T., Ruangphanit, A., & Pecharapa, W. (2013). Structural and magnetic properties of nanocrystalline zinc-doped metal ferrites (metal=Ni; Mn; Cu) prepared by sol-gel combustion method. *Ceramics International*, *39*(SUPPL.1). https://doi.org/10.1016/j.ceramint.2012.10.069

Thakur, P., Chahar, D., Taneja, S., Bhalla, N., & Thakur, A. (2020). A review on MnZn ferrites: Synthesis, characterization and applications. *Ceramics International*, *46*(10), 15740–15763. https://doi.org/10.1016/j.ceramint.2020.03.287

Thakur, P., Sharma, R., Kumar, M., Katyal, S. C., Negi, N. S., Thakur, N., Sharma, V., & Sharma, P. (2016). Super paramagnetic la doped Mn-Zn nano ferrites: Dependence on dopant content and crystallite size. *Materials Research Express*, *3*(7), 1–14. https://doi.org/10.1088/2053-1591/3/7/075001

Thomas, B., & Alexander, L. K. (2018). Enhanced synergetic effect of Cr(VI) ion removal and anionic dye degradation with superparamagnetic cobalt ferrite meso–macroporous nanospheres. *Applied Nanoscience (Switzerland)*, *8*(1–2), 125–135. https://doi.org/10.1007/s13204-018-0655-6

Verma, R., Mishra, S. R., Gadore, V., & Ahmaruzzaman, M. (2023). Hydroxyapatite-based composites: Excellent materials for environmental remediation and biomedical applications. *Advances in Colloid and Interface Science*, *315*(March), 102890. https://doi.org/10.1016/j.cis.2023.102890

Wahyuni, S., Syukri, S., & Arief, S. (2019). Green synthesis of Ag/TiO_2 Nanocomposite Assisted by Gambier Leaf (Uncaria gambir Roxb) Extract. *Jurnal Kimia Sains Dan Aplikasi*, *22*(6), 250–255. https://doi.org/10.14710/jksa.22.6.250-255

Walger, E., Marlin, N., Molton, F., & Mortha, G. (2018). Study of the direct red 81 dye/copper(II)-phenanthroline system. *Molecules*, *23*(2), 1–23. https://doi.org/10.3390/molecules23020242

Yonatan Mulushoa, S., & Murali, N. (2022). Comparison of Structural, dielectric and magnetic investigation of Cr3+ substituted Mg-Cu, Mg-Zn, and Mg-Ni ferrites system. *Inorganic Chemistry Communications*, *145*(October), 110033. https://doi.org/10.1016/j.inoche.2022.110033

Yusefi, M., Su Yee, O., & Shameli, K. (2021). Bio-Mediated Production and Characterisation of Magnetic Nanoparticles Using Fruit Peel Extract. *Journal of Research in Nanoscience and Nanotechnology*, *1*(1), 53–61. https://doi.org/10.37934/jrnn.1.1.5361

Yusmar, A., Armitasari, L., & Suharyadi, E. (2018). Effect of Zn on dielectric properties of Mn-Zn spinel ferrite synthesized by coprecipitation. *Materials Today: Proceedings*, *5*(7), 14955–14959. https://doi.org/10.1016/j.matpr.2018.04.037

Yusuf, T. L., Orimolade, B. O., Masekela, D., Mamba, B., & Mabuba, N. (2022). The application of photoelectrocatalysis in the degradation of rhodamine B in aqueous solutions: a review. *RSC Advances*, *12*(40), 26176–26191. https://doi.org/10.1039/d2ra04236c

Yuvaraj, S., Manikandan, N., & Vinitha, G. (2021). Effect of Zn^{2+} ions on third order nonlinear optical behavior and power limiting properties of manganese ferrite nanoparticles. *Photonics and Nanostructures - Fundamentals and Applications*, *45*(March). https://doi.org/10.1016/j.photonics.2021.100922

Zhou, X., Zhou, Y., Zhou, L., Wei, J., Wu, J., & Yao, D. (2019). Effect of Gd and La doping on the structure, optical and magnetic properties of NiZnCo ferrites. *Ceramics International*, *45*(5), 6236–6242. https://doi.org/10.1016/j.ceramint.2018.12.102