

## DAFTAR PUSTAKA

- Abdulkadhim, W. K., & Mohammed, M. A. (2022). Preparation of Fe<sub>3</sub>O<sub>4</sub>-Au@Fe<sub>3</sub>O<sub>4</sub>-Ag composite nanoparticles and cytotoxicity study of kidney parameters in mice. *Nanomedicine Research Journal*, 7(3), 227–234.
- Adeyeye, A. O., & Shimon, G. (2015). Growth and characterization of magnetic thin film and nanostructures. In *Handbook of surface science* (Vol. 5, pp. 1–41). North-Holland.
- Ahmed, M. M., & Abu-Elsaad, N. (2024). Exploring the Magnetic Behavior of Ferrites: From Diamagnetism to Superparamagnetism. *arXiv preprint arXiv:2406.10599*.
- Aisida, S. O., Madubuonu, N., Alnasir, M. H., Ahmad, I., Botha, S., Maaza, M., & Ezema, F. I. (2020). Biogenic synthesis of iron oxide nanorods using Moringa oleifera leaf extract for antibacterial applications. *Applied Nanoscience*, 10(1), 305–315.
- Ali, A., Chiang, Y. W., & Santos, R. M. (2022). X-ray diffraction techniques for mineral characterization: A review for engineers of the fundamentals, applications, and research directions. *Minerals*, 12(2), 205.
- Alterary, S. S., & AlKhamees, A. (2021). Synthesis, surface modification, and characterization of Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> core-shell nanostructure. *Green Processing and Synthesis*, 10(1), 384–391. <https://doi.org/10.1515/gps-2021-0031>
- Alzoubi, F., BaniHani, W., BaniHani, R., et al. (2024). Synthesis and characterization of silver nanoparticles (Ag), magnetite nanoparticles (Fe<sub>3</sub>O<sub>4</sub>), and magnetite/silver core shell (Fe<sub>3</sub>O<sub>4</sub>/Ag) nanoparticles, and their application against drug resistant bacteria. *Journal of Cluster Science*, 35, 2979–2989. <https://doi.org/10.1007/s10876-024-02708-8>
- Ansari, F., & Singh, J. (2025). Bioheat transfer analysis inside multi layered breast tissue during magnetic hyperthermia: Incorporating sweating and surface heat sources. *International Communications in Heat and Mass Transfer*, 168, 109365. <https://doi.org/10.1016/j.icheatmasstransfer.2025.109365>
- Buch, S., Chen, Y., & Haacke, E. M. (2021). Principles of susceptibility-weighted MRI. In I.-Y. Choi & P. Jezzard (Eds.), *Advances in magnetic resonance technology and applications* (Vol. 4, pp. 341–357). Academic Press. <https://doi.org/10.1016/B978-0-12-822479-3.00036-1>
- Bunaciu, A. A., UdrişTioiu, E. G., & Aboul-Enein, H. Y. (2015). X-ray diffraction: instrumentation and applications. *Critical reviews in analytical chemistry*, 45(4), 289–299.
- Chen, Y., Sun, H., Li, Y., Han, X., Yang, Y., Chen, Z., Zhao, X., Qian, Y., Liu, X., Zhou, F., Bai, J., & Qiao, Y. (2025). Magnetic nanomaterials for hyperthermia based therapy and controlled drug delivery. *Bioactive Materials*, 53, 591–629. <https://doi.org/10.1016/j.bioactmat.2025.07.033>
- Chen, Y., Zou, C., Mastalerz, M., Hu, S., Gasaway, C., & Tao, X. (2015). Applications of micro-fourier transform infrared spectroscopy (FTIR) in the geological sciences—a review. *International journal of molecular sciences*, 16(12), 30223–30250.

- Chenthamara, D., Subramaniam, S., Ramakrishnan, S. G., Krishnaswamy, S., Essa, M. M., Lin, F. H., & Qoronfleh, M. W. (2019). Therapeutic efficacy of nanoparticles and routes of administration. *Biomaterials research*, 23, 20. <https://doi.org/10.1186/s40824-019-0166-x>
- Coelho, N., Jacinto, J. P., Silva, R., Soares, J. C., Pereira, A. S., & Tavares, P. (2023). Green synthesis and antibacterial activity of silver nanoparticles obtained from Moringa oleifera seed cake. *Coatings*, 13(8), 1439. <https://doi.org/10.3390/coatings13081439>
- Costa, B., Pereira, E., Ferreira-Filho, V. C., Pires, A. S., Pereira, L. C. J., Soares, P. I. P., Botelho, M. F., Mendes, F., Graça, M. P. F., & Teixeira, S. S. (2025). Influence of the pH Synthesis of Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles on Their Applicability for Magnetic Hyperthermia: An In Vitro Analysis. *Pharmaceutics*, 17(7), 844. <https://doi.org/10.3390/pharmaceutics17070844>
- Cuana, R., Panre, A. M., Istiqomah, N. I., Tumbelaka, R. M., Wicaksono, S. T., & Suharyadi, E. (2022). Green synthesis of Fe<sub>3</sub>O<sub>4</sub>/chitosan nanoparticles utilizing moringa oleifera extracts and their surface plasmon resonance properties. *ECS Journal of Solid State Science and Technology*, 11(8), 083015.
- Darmawan, M. Y., Istiqomah, N. I., Adrianto, N., Tumbelaka, R. M., Nugraheni, A. D., & Suharyadi, E. (2023). Green synthesis of Fe<sub>3</sub>O<sub>4</sub>/Ag composite nanoparticles using Moringa oleifera: Exploring microstructure, optical, and magnetic properties for magnetic hyperthermia applications. *Results in Chemistry*, 6, 100999. <https://doi.org/10.1016/j.rechem.2023.100999>
- Dat, L. T., Nguyen, L. H., Nam, N. H., & others. (2022). Dependence of specific absorption rate on concentration of Fe<sub>3</sub>O<sub>4</sub> nanoparticles: From the prediction of Monte Carlo simulations to experimental results. *Journal of Nanoparticle Research*, 24(214). <https://doi.org/10.1007/s11051-022-05596-z>
- Diantoro, M., Pradhana, D., Mustikasari, A. A., Kusumawati, A. D., Taufiq, A., Mufti, N., & Nur, H. (2017, May). Effect of Fe<sub>3</sub>O<sub>4</sub> on the electro-optic and magneto-electric characteristics of (PANI/Fe<sub>3</sub>O<sub>4</sub>)-Ag film. *In IOP Conference Series: Materials Science and Engineering* (Vol. 202, No. 1, p. 012062). IOP Publishing.
- Ding, Q., Liu, D., Guo, D., Yang, F., Pang, X., Che, R., ... & Gu, N. (2017). Shape-controlled fabrication of magnetite silver hybrid nanoparticles with high performance magnetic hyperthermia. *Biomaterials*, 124, 35-46.
- Dizajyekan, S. B., Jafari, A., Vafaie Sefti, M., et al. (2024). Preparation of stable colloidal dispersion of surface modified Fe<sub>3</sub>O<sub>4</sub> nanoparticles for magnetic heating applications. *Scientific Reports*, 14, 1296. <https://doi.org/10.1038/s41598-024-51801-5>
- Faramarzi, B., Moggio, M., Diano, N., Portaccio, M., & Lepore, M. (2023). A Brief Review of FT-IR Spectroscopy Studies of Sphingolipids in Human Cells. *Biophysica*, 3(1), 158-180. <https://doi.org/10.3390/biophysica3010011>
- Firdaus, F., Tabrani, R. A. H., Prayoga, G. A., Zurnansyah, Ardiyanti, H., Sari, E. K., Istiqomah, N. I., Antarnusa, G., & Suharyadi, E. (2025). Green-synthesized Fe<sub>3</sub>O<sub>4</sub> magnetic labels for rapid and sensitive GMR chip-based

- biosensing. *Sensors and Actuators A: Physical*, 396, 117138. <https://doi.org/10.1016/j.sna.2025.117138>
- Gan, Z., Zhao, A., Zhang, M., Wang, D., Guo, H., Tao, W., ... & Liu, E. (2013). Fabrication and magnetic-induced aggregation of Fe<sub>3</sub>O<sub>4</sub>-noble metal composites for superior SERS performances. *Journal of nanoparticle research*, 15(11), 1954.
- Garcia, S., Mabarroh, N., Darmawan, M. Y., Wibowo, N. A., Ardiyanti, H., Tumbelaka, R. M., Istiqomah, N. I., & Suharyadi, E. (2023). Two spin-valve GMR thin films on half wheatstone bridge circuit for detecting green-synthesized Fe<sub>3</sub>O<sub>4</sub>@Ag nanoparticles-labeled biomolecule. *Materialia*, 32, 101930. <https://doi.org/10.1016/j.mtla.2023.101930>
- Ghazanfari, M., & JOHARI, F. (2014). Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub>@Ag core-shell: structural, morphological, and magnetic properties.
- Gorylewski, D., & Tyszczyk-Rotko, K. (2025). From Synthesis to Sensing: The Insight into the Properties of Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles and Their Surface Modification Strategies in Voltammetric Trace Determination of Heavy Metal Ions. *Molecules*, 30(18), 3796. <https://doi.org/10.3390/molecules30183796>
- Hajalilou, A., Ferreira, L. P., Melo Jorge, M. E., Reis, C. P., & Cruz, M. M. (2021). Superparamagnetic Ag Fe<sub>3</sub>O<sub>4</sub> composite nanoparticles for magnetic fluid hyperthermia. *Journal of Magnetism and Magnetic Materials*, 537, 168242. <https://doi.org/10.1016/j.jmmm.2021.168242>
- Hosny, A. A., El-Deeb, B., Mohamed, Z. A., Hassan, A., Kamel, M., Elbeltagi, S., ... & Ibrahim, E. M. M. (2025). Green synthesis of Mn-doped iron oxide nanoparticles using sugarcane juice for magnetic hyperthermia applications. *Scientific Reports*, 15(1), 28686.
- Ingham, B. (2015). X-ray scattering characterisation of nanoparticles. *Crystallography Reviews*, 21(4), 229-303.
- Jafari, A., Farjami Shayesteh, S., Salouti, M., & Boustani, K. (2015). Dependence of structural phase transition and lattice strain of Fe<sub>3</sub>O<sub>4</sub> nanoparticles on calcination temperature. *Indian Journal of Physics*, 89(6), 551-560.
- Jiananda, A., E. K. Sari, D. A. Larasati, R. M. Tumbelaka, H. Ardiyanti, M. Y. Darmawan, N. I. Istiqomah, Sunaryono, S. T. Wicaksono, & E. Suharyadi. (2023). Optical, microstructural, and magnetic hyperthermia properties of green synthesized Fe<sub>3</sub>O<sub>4</sub>/carbon dots nanocomposites utilizing Moringa oleifera extract and watermelon rinds. *Carbon Trends*, 13, 100305. <https://doi.org/10.1016/j.cartre.2023.100305>
- Juharni, J., Maulana, I., Suharyadi, E., Kato, T., & Iwata, S. (2021). The effect of Ag concentration of core-shell Fe<sub>3</sub>O<sub>4</sub>@Ag nanoparticles for sensitivity enhancement of surface plasmon resonance (SPR)-based biosensor. *Key Engineering Materials*, 884, 337-341.
- Juwita, E., Sulistiani, F. A., Darmawan, M. Y., Istiqomah, N. I., & Suharyadi, E. (2022). Microstructural, optical, and magnetic properties and specific absorption rate of bismuth ferrite/SiO<sub>2</sub> nanoparticles. *Materials Research Express*, 9(7). <https://doi.org/10.1088/2053-1591/ac804e>

- Keat, C. L., Aziz, A., Eid, A. M., & Elmarzugi, N. A. (2015). Biosynthesis of nanoparticles and silver nanoparticles. *Bioresources and Bioprocessing*, 2(1), 47.
- Kim, S. K., Beach, G. S., Lee, K. J., Ono, T., Rasing, T., & Yang, H. (2021). Ferrimagnetic spintronics. *Nature materials*, 21(1), 24-34.
- Kirupakar, B. R., Vishwanath, B. A., Sree, M. P., & Deenadayalan, D. (2016). Vibrating sample magnetometer and its application in characterisation of magnetic property of the anti cancer drug magnetic microspheres. *International Journal of Pharmaceutics and Drug Analysis*, 4(5), 227-233.
- Kiwumulo, H. F., Muwonge, H., Ibingira, C., Lubwama, M., Kirabira, J. B., & Ssekitoleko, R. T. (2022). Green synthesis and characterization of iron-oxide nanoparticles using Moringa oleifera: a potential protocol for use in low and middle income countries. *BMC research notes*, 15(1), 149.
- Kovács, D., Igaz, N., Gopisetty, M. K., & Kiricsi, M. (2022). Cancer therapy by silver nanoparticles: fiction or reality?. *International journal of molecular sciences*, 23(2), 839.
- Kumar, S., Kumar, M., & Singh, A. (2021). Synthesis and characterization of iron oxide nanoparticles (Fe<sub>2</sub>O<sub>3</sub>, Fe<sub>3</sub>O<sub>4</sub>): a brief review. *Contemporary Physics*, 62(3), 144–164. <https://doi.org/10.1080/00107514.2022.2080910>
- Larasati, D. A., Puspitarum, D. L., Darmawan, M. Y., Istiqomah, N. I., Partini, J., Aliah, H., & Suharyadi, E. (2023). Green synthesis of CoFe<sub>2</sub>O<sub>4</sub>/ZnS composite nanoparticles utilizing Moringa Oleifera for magnetic hyperthermia applications. *Results in Materials*, 19, 100431.
- Lemine, O. M., Algessair, S., Madkhali, N., Al-Najar, B., & El-Boubbou, K. (2023). Assessing the Heat Generation and Self-Heating Mechanism of Superparamagnetic Fe<sub>3</sub>O<sub>4</sub> Nanoparticles for Magnetic Hyperthermia Application: The Effects of Concentration, Frequency, and Magnetic Field. *Nanomaterials*, 13(3), 453. <https://doi.org/10.3390/nano13030453>
- Liu, X., Zhang, Y., Wang, Y., Zhu, W., Li, G., Ma, X., ... & Liang, X. J. (2020). Comprehensive understanding of magnetic hyperthermia for improving antitumor therapeutic efficacy. *Theranostics*, 10(8), 3793.
- Mabarroh, N. M., Alfansuri, T., Wibowo, N. A., Istiqomah, N. I., Tumbelaka, R. M., & Suharyadi, E. (2022). Detection of green-synthesized magnetite nanoparticles using spin-valve GMR-based sensor and their potential as magnetic labels. *Journal of Magnetism and Magnetic Materials*, 560, 169645.
- Madhubala, V., Nagarajan, C., Baskaran, P., Raguraman, V., & Kalaivani, T. (2023). Influences of superparamagnetic Fe<sub>3</sub>O<sub>4</sub>@Ag core shell nanoparticles on the growth inhibition of Huh 7 cells. *Materials Today Communications*, 35, 106139. <https://doi.org/10.1016/j.mtcomm.2023.106139>
- Maleki, S. T., & Sadati, S. J. (2022). Synthesis and investigation of hyperthermia properties of Fe<sub>3</sub>O<sub>4</sub>/HNTs magnetic nanocomposite. *Inorganic Chemistry Communications*, 145, 110000. <https://doi.org/10.1016/j.inoche.2022.110000>
- Martinez-Boubeta C, Simeonidis K, Makridis A, Angelakeris M, Iglesias O, Guardia P, Cabot A, Yedra L, Estradé S, Peiró F (2013) Learning from nature

- to improve the heat generation of iron-oxide nanoparticles for magnetic hyperthermia applications. *Sci Rep* 3:1–8. <https://doi.org/10.1038/srep01652>
- Mistral, J., Ve Koon, K. T., Fernando Cotica, L., Sanguino Dias, G., Aparecido Santos, I., Alcouffe, P., ... & David, L. (2024). Chitosan-coated superparamagnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles for magnetic resonance imaging, magnetic hyperthermia, and drug delivery. *ACS Applied Nano Materials*, 7(7), 7097-7110.
- Mol, B., Beeran, A. E., Jayaram, P. S., Prakash, P., Jayasree, R. S., Thomas, S., ... & Bushiri, M. J. (2021). Radio frequency plasma assisted surface modification of Fe<sub>3</sub>O<sub>4</sub> nanoparticles using polyaniline/polypyrrole for bioimaging and magnetic hyperthermia applications. *Journal of Materials Science: Materials in Medicine*, 32(9), 108.
- Molaei, M. J. (2024). Magnetic hyperthermia in cancer therapy, mechanisms, and recent advances: A review. *Journal of Biomaterials Applications*, 39(1), 3–23. <https://doi.org/10.1177/08853282241244707>
- Mondal, D. K., Phukan, G., Paul, N., & Borah, J. P. (2021). Improved self heating and optical properties of bifunctional Fe<sub>3</sub>O<sub>4</sub>/ZnS nanocomposites for magnetic hyperthermia application. *Journal of Magnetism and Magnetic Materials*, 528, 167809. <https://doi.org/10.1016/j.jmmm.2021.167809>
- Mondal, R., Ghanta, R., & Chattopadhyay, T. (2025). Applications of surface modified Fe<sub>3</sub>O<sub>4</sub> based nanoparticles for the oxidation of various alcohols: a review. *Journal of Coordination Chemistry*, 78(9), 841–936. <https://doi.org/10.1080/00958972.2025.2475022>
- Moodley, J. S., Krishna, S. B. N., Pillay, K., Serphen, F., & Govender, P. (2018). Green synthesis of silver nanoparticles from Moringa oleifera leaf extracts and its antimicrobial potential. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 9(1), 015011.
- Mukherjee, S., Liang, L., & Veiseh, O. (2020). Recent Advancements of Magnetic Nanomaterials in Cancer Therapy. *Pharmaceutics*, 12(2), 147. <https://doi.org/10.3390/pharmaceutics12020147>
- Mustafa, A., Ali, U., Mukarama, M., Iqbal, A., Qayyum, M., Ul Haq, I., & Islam, F. (2025). Synthesis and characterization of Fe<sub>3</sub>O<sub>4</sub> nanoparticles by sol–gel method using water as a solvent. *Advances in Nanoparticles*, 14(1), 1–11.
- Nelson, J., & Sanvito, S. (2019). Predicting the Curie temperature of ferromagnets using machine learning. *Physical Review Materials*, 3(10), 104405.
- Nisticò, R., Cesano, F., & Garello, F. (2020). Magnetic materials and systems: Domain structure visualization and other characterization techniques for the application in the materials science and biomedicine. *Inorganics*, 8(1), 6.
- Obaidat, I. M., Issa, B., & Haik, Y. (2015). Magnetic properties of magnetic nanoparticles for efficient hyperthermia. *Nanomaterials*, 5(1), 63-89.
- Ogbezode, J. E., Ezealigo, U. S., Bello, A., Anye, V. C., & Onwualu, A. P. (2023). A narrative review of the synthesis, characterization, and applications of iron oxide nanoparticles. *Discover Nano*, 18(1), 125.
- Pachla, A., Lenzion-Bieluń, Z., Moszyński, D., Markowska-Szczupak, A., Narkiewicz, U., Wróbel, R. J., ... & Żolnierkiewicz, G. (2016). Synthesis and

- antibacterial properties of Fe<sub>3</sub>O<sub>4</sub>-Ag nanostructures. *Polish Journal of Chemical Technology*, 18(4), 110-116.
- Penny, C., Muxworthy, A. R., & Fabian, K. (2019). Mean-field modelling of magnetic nanoparticles: The effect of particle size and shape on the Curie temperature. *Physical Review B*, 99(17), 174414.
- Pereira, G. F. L., Costa, F. N., Souza, J. A., Haddad, P. S., & Ferreira, F. F. (2018). Parametric Rietveld refinement and magnetic characterization of superparamagnetic iron oxide nanoparticles. *Journal of Magnetism and Magnetic Materials*, 456, 108-117.
- Perumalsamy, H., Balusamy, S. R., Sukweenadhi, J., Nag, S., MubarakAli, D., El-Agamy Farh, M., ... & Rahimi, S. (2024). A comprehensive review on Moringa oleifera nanoparticles: importance of polyphenols in nanoparticle synthesis, nanoparticle efficacy and their applications. *Journal of nanobiotechnology*, 22(1), 71.
- Qureshi, A. A., Javed, S., Javed, H. M. A., Jamshaid, M., Ali, U., & Akram, M. A. (2022). Systematic investigation of structural, morphological, thermal, optoelectronic, and magnetic properties of high-purity hematite/magnetite nanoparticles for optoelectronics. *Nanomaterials*, 12(10), 1635.
- Quynh, L. M., Dung, C. T., Mai, B. T., Huy, H. V., Loc, N. Q., Hoa, N. Q., ... & Vu, L. V. (2018). Development of Fe<sub>3</sub>O<sub>4</sub>/Ag core/shell-based multifunctional immunomagnetic nanoparticles for isolation and detection of CD34+ stem cells. *Journal of immunoassay and immunochemistry*, 39(3), 308-322.
- Rukhsar, M., Ahmad, Z., Rauf, A., Zeb, H., Ur-Rehman, M., & Hemeg, H. A. (2022). An overview of iron oxide (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles: From synthetic strategies, characterization to antibacterial and anticancer applications. *Crystals*, 12(12), 1809. <https://doi.org/10.3390/cryst12121809>
- Sahayaraj, R., Enoch, K., Pati, S. S., & Somasundaram, A. A. (2025). Cobalt doped Fe<sub>3</sub>O<sub>4</sub> nanoparticles with improved magnetic anisotropy and enhanced hyperthermic efficiency. *Ceramics International*, 51(15), 20786–20797. <https://doi.org/10.1016/j.ceramint.2025.02.245>
- Sari, E. K., Tumbelaka, R. M., Ardiyanti, H., Istiqomah, N. I., Chotimah, & Suharyadi, E. (2023). Green synthesis of magnetically separable and reusable Fe<sub>3</sub>O<sub>4</sub>/Cdots nanocomposites photocatalyst utilizing Moringa oleifera extract and watermelon peel for rapid dye degradation. *Carbon Resources Conversion*, 6(4), 274–286. <https://doi.org/10.1016/j.crcon.2023.04.003>
- Seal, P., Alam, A., & Borah, J. P. (2025). Tailoring magnetic properties of Fe<sub>3</sub>O<sub>4</sub> nanocomposites with amine-functionalized MWCNT for optimal hyperthermia performance. *Materials Chemistry and Physics*, 331, 130169.
- Serantes, D., & Baldomir, D. (2021). Nanoparticle Size Threshold for Magnetic Agglomeration and Associated Hyperthermia Performance. *Nanomaterials*, 11(11), 2786. <https://doi.org/10.3390/nano11112786>
- Shende, P., & Agrawal, S. (2018). Integration of 3D printing with dosage forms: A new perspective for modern healthcare. *Biomedicine & Pharmacotherapy*, 107, 146–154. <https://doi.org/10.1016/j.biopha.2018.07.167>

- Shivare, P., & Shrivastava, R. (2025). Integrated FTIR and DFT study of the molecular structure and reactivity of 3-Aminopropyltrimethoxysilane (APTMS). *Journal of Chemical Health Risks*, 15(4), 376–384.
- Singh, A., Gautam, P. K., Verma, A., Singh, V., Shivapriya, P. M., Shivalkar, S., ... & Samanta, S. K. (2020). Green synthesis of metallic nanoparticles as effective alternatives to treat antibiotics resistant bacterial infections: A review. *Biotechnology Reports*, 25, e00427.
- Singh, J., Dutta, T., Kim, K. H., et al. (2018). ‘Green’ synthesis of metals and their oxide nanoparticles: applications for environmental remediation. *Journal of Nanobiotechnology*, 16(84). <https://doi.org/10.1186/s12951-018-0408-4>
- Spirou, S. V., Basini, M., Lascialfari, A., Sangregorio, C., & Innocenti, C. (2018). Magnetic hyperthermia and radiation therapy: radiobiological principles and current practice. *Nanomaterials*, 8(6), 401.
- Sung, H., Ferlay, J., Siegel, R. L., Laversanne, M., Soerjomataram, I., Jemal, A., & Bray, F. (2021). Global cancer statistics 2020: Globocan estimates of incidence and mortality worldwide for 36 cancers in 185 countries. *CA: A Cancer Journal for Clinicians*, 71(3), 209–249. <https://doi.org/10.3322/caac.21660>
- Tabrani, R. A. M. H., Antarnusa, G., & Firdaus, F. (2025). Facile synthesis of Fe<sub>3</sub>O<sub>4</sub> via co-precipitation method: The role of Moringa oleifera in substituting chemical reducing agents. *Next Materials*, 8, 100927.
- Tan R. P., Carrey J., and Respaud M. (2014) Magnetic hyperthermia properties of nanoparticles inside lysosomes using kinetic Monte Carlo simulations: influence of key parameters and dipolar interactions, and evidence for strong spatial variation of heating power. *Phys. Rev. B* 90:214421–1–214421–1–12. <https://doi.org/10.1103/PhysRevB.90.214421>.
- Tayal, D. C. 2009. *Electricity and Magnetism*. Edisi Revisi. Mumbai: Himalaya Publishing House
- Tiloke, C., Anand, K., Gengan, R. M., & Chuturgoon, A. A. (2018). Moringa oleifera and their phytonanoparticles: Potential antiproliferative agents against cancer. *Biomedicine & Pharmacotherapy*, 108, 457-466.
- Tumbelaka, R. M., Istiqomah, N. I., Kato, T., Oshima, D., & Suharyadi, E. (2022). High reusability of green synthesized Fe<sub>3</sub>O<sub>4</sub>/TiO<sub>2</sub> photocatalyst nanoparticles for efficient degradation of methylene blue dye. *Materials Today Communications*, 33. <https://doi.org/10.1016/j.mtcomm.2022.104450>
- Vedrtnam, A., Kalauni, K., Dubey, S., & Kumar, A. (2020). A comprehensive study on structure, properties, synthesis and characterization of ferrites. *AIMS Materials Science*, 7(6), 800–835. <https://doi.org/10.3934/materci.2020.6.800>
- Virk, P., Awad, M. A., Alsaif, S. S. A., Hendi, A. A., Elobeid, M., Ortashi, K., Qindeel, R., El Khadragey, M. F., Yehia, H. M., Serag EL DIN, M. F., & Salama, H. A. (2023). Green synthesis of Moringa oleifera leaf nanoparticles and an assessment of their therapeutic potential. *Journal of King Saud University – Science*, 35(3). <https://doi.org/10.1016/j.jksus.2023.102576>
- Wang, M., Chen, H., Sun, R., Zeng, T., Lu, C., Yoshitomi, T., ... & Chen, G. (2025). Impact of the Intracellular Mechanical Microenvironment of Breast Cancer

- and Normal Mammary Epithelial Cells on Magnetic Hyperthermia of Fe<sub>3</sub>O<sub>4</sub> Nanoparticles. *Acta Biomaterialia*.
- Xiong, X., Zheng, L. W., Ding, Y., Chen, Y. F., Cai, Y. W., Wang, L. P., Huang, L., Liu, C. C., Shao, Z. M., & Yu, K. D. (2025). Breast cancer: pathogenesis and treatments. *Signal transduction and targeted therapy*, 10(1), 49. <https://doi.org/10.1038/s41392-024-02108-4>
- Yahya, S., Pushpanathan, S., Jan, S., Chaudhary, N., Parray, R., Gandhi, K. A., Thangavel, K., Krishnan, K., & Sudhandiran, G. (2025). Development and characterization of pegylated Fe<sub>3</sub>O<sub>4</sub> CAPE magnetic nanoparticles for targeted therapy and hyperthermia treatment of colorectal cancer. *Scientific Reports*, 15. <https://doi.org/10.1038/s41598-025-11927-6>
- Yasemian, A. R., Kashi, M. A., & Ramazani, A. (2019). Surfactant-free synthesis and magnetic hyperthermia investigation of iron oxide (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles at different reaction temperatures. *Materials Chemistry and Physics*, 230, 9-16.
- Yusefi, M., Shamel, K., Ali, R. R., Pang, S. W., & Teow, S. Y. (2020). Evaluating anticancer activity of plant-mediated synthesized iron oxide nanoparticles using Punica granatum fruit peel extract. *Journal of Molecular Structure*, 1204, 127539.
- Zhang, L., Li, Q., Liu, J., Deng, Z., Zhang, X., Wang, K., He, Q., Liu, R., Sun, Q., Yu, Z., Lan, Z., Wen, T., & Sun, K. (2025). Precise size control of superparamagnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles for liver cancer diagnosis and magnetic hyperthermia therapy. *Colloids and surfaces. B, Biointerfaces*, 253, 114763. <https://doi.org/10.1016/j.colsurfb.2025.114763>
- Zhou, G., You, Y., Wang, B., Wang, S., & Liu, J. (2024). Green synthesis of magnetic Fe<sub>3</sub>O<sub>4</sub>/Ag nanocomposite using pomegranate peel extract for the treatment of ovarian cancer. *Arabian Journal of Chemistry*, 17(1). <https://doi.org/10.1016/j.arabjc.2023.105394>