



## DAFTAR PUSTAKA

- Ahmed, H., Gomte, S. S., Prathyusha, E., A, P., Agrawal, M. and Alexander, A. (2022). Biomedical Applications of Mesoporous Silica Nanoparticles as A Drug Delivery Carrier. *Journal of Drug Delivery Science and Technology*, 76, 103729.
- Alotaibi, K. M., Almethen, A. A., Beagan, A. M., Al-Swaidan, H. M., Ahmad, A., Bhawani, S. A., & Alswileh, A. M. (2021). Quaternization of poly (2-diethyl aminoethyl methacrylate) brush-grafted magnetic mesoporous nanoparticles using 2-iodoethanol for removing anionic dyes. *Applied Sciences (Switzerland)*, 11(21), 10451.
- Anam, C., Firdausi, K. S., & Sirojudin, S. (2007). Analisis gugus fungsi pada sampel uji, bensin dan spiritus menggunakan metode spektroskopi FTIR. *Berkala Fisika*, 10(1), 79-85.
- Andra, W., Hafeli, U., Herdt, R., dan Misri, R. (2007). Application of Magnetic Particles in Medicine and Biology. Kronmuller, H. & Parkin, S.(Ed.). *Handbook of Magnetism and Advanced Magnetic Materials*. John Wiley & Sons.
- Baykal, A., Güner, S. and Demir, A. (2015) ‘Synthesis And Magneto-Optical Properties of Triethylene Glycol Stabilized Mn<sub>1-x</sub>Zn<sub>x</sub>Fe<sub>2</sub>O<sub>4</sub> Nanoparticles’, *Journal of Alloys and Compounds*, 619, 5–11.
- Bahadur, A., Saeed, A., Shoaib, M., Iqbal, S., Imran, M., Waqas, M. and Nasir, M. (2017) ‘Eco-friendly Synthesis of Magnetite (Fe<sub>3</sub>O<sub>4</sub>) Nanoparticles with Tunable Size: Dielectric, magnetic, thermal and optical studies’, *Materials Chemistry and Physics*, 198, pp. 229–235.
- Bharti, C., Gulati, N., Nagaich, U. and Pal, A. (2015) ‘Mesoporous Silica Nanoparticles In Target Drug Delivery System: A review’, *International Journal of Pharmaceutical Investigation*, 5(3), 124.
- Callister, J. W. D., & Rethwisch, D. G. (2013). *Materials Science and Engineering*. Wiley.



- Cai, D., Liu, L., Han, C., Ma, X., Qian, J., Zhou, J., & Zhu, W. (2019). Cancer cell membrane-coated mesoporous silica loaded with superparamagnetic ferroferric oxide and Paclitaxel for the combination of Chemo/Magnetocaloric therapy on MDA-MB-231 cells. *Scientific Reports*, 9(1).
- Chiang, Y. D., Lian, H. Y., Leo, S. Y., Wang, S. G., Yamauchi, Y., & Wu, K. C. W. (2011). Controlling particle size and structural properties of mesoporous silica nanoparticles using the taguchi method. *Journal of Physical Chemistry C*, 115(27), 13158–13165.
- 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(1), 1-29.
- Coey, J. M. (2009). *Magnetism and Magnetic Materials*. Cambridge: Cambridge University Press.
- Chakkareddy, R. and Redhi, G. G. (2018) ‘Green Synthesis of Metal Nanoparticles and Its Reaction Mechanisms’, pp. 113–139.
- Cuana, R., Panre, A. M., Istiqomah, N. I., Tumbelaka, R. M., Sunaryono, Wicaksono, S. T. and 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), p. 083015.
- Coïsson, M., Barrera, G., Celegato, F., Martino, L., Vinai, F., Martino, P., Ferraro, G., & Tiberto, P. (2016). Specific absorption rate determination of magnetic nanoparticles through hyperthermia measurements in non-adiabatic conditions. *Journal of Magnetism and Magnetic Materials*, 415, 2–7.
- Colombo, M., Carregal-Romero, S., Casula, M. F., Gutiérrez, L., Morales, M. P., Böhm, I. B., ... & Parak, W. J. (2012). Biological applications of magnetic nanoparticles. *Chemical Society Reviews*, 41(11), 4306-4334.



- Cendrowski, K., Sikora, P., Zielinska, B., Horszczaruk, E. and Mijowska, E. (2017) ‘Chemical and Thermal Stability of Core-Shelled Magnetite Nanoparticles and Solid Silica’, *Applied Surface Science*, 407, pp. 391–397.
- Deatsch, A. E. and Evans, B. A. (2014). Heating Efficiency In Magnetic Nanoparticle Hyperthermia. *Journal of Magnetism and Magnetic Materials*. 354, 163–172.
- Darmawan, M.Y., Imani Istiqomah, N., Adrianto, N., Marsel Tumbelaka, R., Dwi Nugraheni, A., & 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.
- Dachriyanus. (2004). Analisis Struktur Senyawa Organik Secara Spektroskopi. *Padang: Lembaga Pengembangan Teknologi Informasi dan Komunikasi (LPTIK) Universitas Andalas.*
- Dayana, I., Sembiring, T., Tetuko, A. P., Sembiring, K., Maulida, N., Cahyarani, Z., Setiadi, E. A., Asri, N. S., Ginting, M., & Sebayang, P. (2019). The effect of tetraethyl orthosilicate (TEOS) additions as silica precursors on the magnetite nano-particles (Fe<sub>3</sub>O<sub>4</sub>) properties for the application of ferro-lubricant. *Journal of Molecular Liquids*, 294, 111557.
- Ebrahimisadr, S., Aslibeiki, B., & Asadi, R. (2018). Magnetic hyperthermia properties of iron oxide nanoparticles: The effect of concentration. *Physica C: Superconductivity and Its Applications*, 549, 119–121.
- Elyamany, A. (2016). Superparamagnetic Nanoparticles for Cancer Theranostics the challenges and the hope. *Journal of Bionanotechnology*.
- Escudero, M., Strmcnik, D., Zoloff, M. E., Leiva, E. P., Markovic, N. M. and Cuesta, A. (2010) ‘Electrocatalysis and Surface Nanostructuring : Atomic Ensemble Effects and Non-Covalent Interactions’, *Materials Science*, (July), pp. 13332–13332.
- Etemadi, H. dan Plieger, P., (2020). ‘Magnetic Fluid Hyperthermia Based on Magnetic Nanoparticles: Physical Characteristics, Historical Perspective,



Clinical Trials, Technological Challenges, and Recent Advances', *Advanced Therapeutics*, 3 (11).

Favela-Camacho, S.E. *et al.* (2019). 'How to decrease the agglomeration of magnetite nanoparticles and increase their stability using surface properties'. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 574(April), pp. 29–35.

Fernández-Ramos, M., Isasi, J., Alcolea, M., Muñoz-Ortiz, T. and Ortiz-Rivero, E. (2022) 'New magnetic-fluorescent bifunctional (Y<sub>0.9</sub>Ln<sub>0.1</sub>VO<sub>4</sub>/Fe<sub>3</sub>O<sub>4</sub>)@SiO<sub>2</sub> and [(Y<sub>0.9</sub>Ln<sub>0.1</sub>VO<sub>4</sub>@SiO<sub>2</sub>)/Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>] Materials', *Ceramics International*, 48(15), pp. 22047–22058.

Fouad, D., Bachra, Y., Ayoub, G., Ouaket, A., Bennamara, A., Knouzi, N., & Berrada, M. (2020). A Novel Drug Delivery System Based on Nanoparticles of Magnetite Fe<sub>3</sub>O<sub>4</sub> Embedded in an Auto Cross-Linked Chitosan. In *Chitin and Chitosan-Physicochemical Properties and Industrial Applications*. IntechOpen.

Gupta, J., Quadros, M., & Momin, M. (2023). Mesoporous silica nanoparticles: Synthesis and multifaceted functionalization for controlled drug delivery. *Journal of Drug Delivery Science and Technology*, 81, 104305.

Guo, F., Li, G., Zhou, H., Ma, S., Guo, L. and Liu, X. (2020) 'Temperature and H<sub>2</sub>O<sub>2</sub>-operated Nano-valves on Mesoporous Silica Nanoparticles for Controlled Drug Release and Kinetics', *Colloids and Surfaces B: Biointerfaces*, 187(November 2019), p. 110643.

Halliday, D., Resnick, R., Walker, J. (2011). *Fundamental of Physics*, 9th ed. John Wiley & Sons, Inc.

Heydari, R., Koudehi, M. F., & Pourmortazavi, S. M. (2019). Antibacterial Activity of Fe<sub>3</sub>O<sub>4</sub>/Cu Nanocomposite: Green Synthesis Using Carum carvi L. Seeds Aqueous Extract. *Chemistry Select*, 4(2), 531–535.

Huang, S., Li, C., Cheng, Z., Fan, Y., Yang, P., Zhang, C., Yang, K., & Lin, J. (2012). Magnetic Fe<sub>3</sub>O<sub>4</sub> mesoporous silica composites for drug delivery and bioadsorption. *Journal of Colloid and Interface Science*, 376(1), 312–321.



- Jones, N. J. (2011) ‘A Study of the Oxidation of Fe<sub>1-x</sub>Cox Alloys and Their Resulting Magnetic Properties’, M.S., *Materials Science and Engineering, Carnegie Mellon University*.
- Jiananda, A., Sari, E. K., Larasati, D. A., Tumbelaka, R. M., Ardiyanti, H., Darmawan, M. Y., Istiqomah, N. I., Sunaryono, Wicaksono, S. T., & Suharyadi, E. (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.
- Jesus, A. C. B., Jesus, J. R., Lima, R. J. S., Moura, K. O., Almeida, J. M. A., Duque, J. G. S. and Meneses, C. T. (2020) ‘Synthesis and Magnetic Interaction on Concentrated Fe<sub>3</sub>O<sub>4</sub> Nanoparticles Obtained by The Co-Precipitation and Hydrothermal Chemical Methods’, *Ceramics International*, 46(8), pp. 11149–11153.
- Jain, S., & Mehata, M. S. (2017). Medicinal Plant Leaf Extract and Pure Flavonoid Mediated Green Synthesis of Silver Nanoparticles and their Enhanced Antibacterial Property. *Scientific Reports*, 7(1), 1–14.
- 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), 076101.
- Khanna, L., Verma, N. K., & Tripathi, S. K. (2018). Burgeoning tool of biomedical applications - Superparamagnetic nanoparticles. In *Journal of Alloys and Compounds* (Vol. 752, pp. 332–353). Elsevier Ltd.
- Kondrashova, N. B., Valtsifer, V. A. and Strelnikov, V. N. (2015) *Magnetic Properties of Silica with Mesopores Structured as MCM-48*.
- Kalubowilage, M., Janik, K. and Bossmann, S. H. (2019) ‘Magnetic Nanomaterials for Magnetically aided Drug Delivery and Hyperthermia’, *Applied Sciences (Switzerland)*, 9(14).
- Kotnala, R. K., & Shah, J. (2015). Ferrite Materials: Nano to Spintronics Regime. In *Handbook of Magnetic Materials* (Vol. 23, pp. 291–379). Elsevier B.V.



- Lara-Velazquez, M., Shireman, J. M., Lehrer, E. J., Bowman, K. M., Ruiz-Garcia, H., Paukner, M. J., Chappell, R. J., & Dey, M. (2021). A Comparison Between Chemo-Radiotherapy Combined With Immunotherapy and Chemo-Radiotherapy Alone for the Treatment of Newly Diagnosed Glioblastoma: A Systematic Review and Meta-Analysis. *Frontiers in Oncology*, 11, 662302.
- Larasati, A. D., Lismawenning Puspitarum, D., Yoga Darmawan, M., Imani Istiqomah, N., 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.
- Lak, A., Disch, S. and Bender, P. (2021) 'Embracing Defects and Disorder in Magnetic Nanoparticles', *Advanced Science*, 8(7), pp. 1–14.
- Li, N., Zhao, P., & Astruc, D. (2014). Anisotropic gold nanoparticles: synthesis, properties, applications, and toxicity. *Angewandte Chemie International Edition*, 53(7), 1756-1789.
- Liu, L., Li, Y., AL-Huqail, A. A., Ali, E., Alkhalfah, T., Alturise, F., & Ali, H. E. (2023). Green synthesis of Fe<sub>3</sub>O<sub>4</sub> nanoparticles using Alliaceae waste (*Allium sativum*) for a sustainable landscape enhancement using support vector regression. *Chemosphere*, 334, 138638.
- Liu, X., Zhang, Yifan, Wang, Y., Zhu, W., Li, G., Ma, X., Zhang, Yihan, Chen, S., Tiwari, S., Shi, K., Zhang, S., Fan, H. M., Zhao, Y. X. and Liang, X. J. (2020). 'Comprehensive Understanding of Magnetic Hyperthermia For Improving Antitumor Therapeutic Efficacy'. *Theranostics*, 10(8), pp. 3793–3815.
- Liu, S., Yu, B., Wang, S., Shen, Y., & Cong, H. (2020). Preparation, surface functionalization and application of Fe<sub>3</sub>O<sub>4</sub> magnetic nanoparticles. In *Advances in Colloid and Interface Science* (Vol. 281). Elsevier B.V.
- Leng, Y. (2008). *Materials Characterization: Introduction to Microscopic and Spectroscopic Methods*. Singapore: John Wiley & Sons.
- Mateus, G. A. P., Paludo, M. P., Dos Santos, T. R. T., Silva, M. F., Nishi, L., Fagundes-Klen, M. R., Gomes, R. G., & Bergamasco, R. (2018). Obtaining



drinking water using a magnetic coagulant composed of magnetite nanoparticles functionalized with Moringa oleifera seed extract. *Journal of Environmental Chemical Engineering*, 6(4), 4084–4092.

Monazam, E. R., Breault, R. W. and Siriwardane, R. (2014) ‘Kinetics of magnetite (Fe<sub>3</sub>O<sub>4</sub>) Oxidation to Hematite (Fe<sub>2</sub>O<sub>3</sub>) in Air for Chemical Looping Combustion’, *Industrial and Engineering Chemistry Research*, 53(34), pp. 13320–13328.

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.

Martinkova, P., Brtnicky, M., Kynicky, J. and Pohanka, M. (2018) ‘Iron Oxide Nanoparticles: Innovative Tool in Cancer Diagnosis and Therapy’, *Advanced Healthcare Materials*, 7(5).

Malega, F., Indrayana, I. P. T. and Suharyadi, E. (2018). ‘Synthesis and Characterization of the Microstructure and Functional Group Bond of Fe<sub>3</sub>O<sub>4</sub> Nanoparticles from Natural Iron Sand in Tobelo North Halmahera’, *Jurnal Ilmiah Pendidikan Fisika Al-Biruni*, 7(2), pp. 129–138.

Mamaeva, V., Sahlgren, C. and Lindén, M. (2013) ‘Mesoporous Silica Nanoparticles In Medicine-Recent Advances’, *Advanced Drug Delivery Reviews*, 65(5), pp. 689–702.

Mukherjee, S., Liang, L., & Veiseh, O. (2020). Recent advancements of magnetic nanomaterials in cancer therapy. *Pharmaceutics*, 12(2), 147.

Moodley, J. S., Krishna, S. B. N., Pillay, K., Sershen and 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).

Marslin, G., Siram, K., Maqbool, Q., Selvakesavan, R. K., Kruszka, D., Kachlicki, P. and Franklin, G. (2018) ‘Secondary metabolites in The Green Synthesis of Metallic Nanoparticles’, *Materials*, 11(6), pp. 1–25.



- Mabarroh, N., Alfansuri, T., Aji Wibowo, N., Imani Istiqomah, N., Marsel Tumbelaka, R. and 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(June), p. 169645.
- Munasir, Setyaningsih, N., Yanasin, S., Supardi, Z. A. I., Taufiq, A. and Sunaryono (2019) 'Phase and Magnetic Properties of Fe<sub>3</sub>O<sub>4</sub>/SiO<sub>2</sub> Natural Materials-Based Using Polyethylene Glycol Media', *IOP Conference Series: Materials Science and Engineering*, 515(1).
- 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(July), p. 110000.
- Nee Koo, K., Fauzi Ismail, A., Hafiz Dzarfan Othman, M., Rahman, M. A., & Zhong Sheng, T. (2019). Preparation and characterization of superparamagnetic magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles: A short review. *In Malaysian Journal of Fundamental and Applied Sciences* (Vol. 15, Issue 1).
- Narayanaswamy, V., Al-Omari, I. A., Kamzin, A. S., Issa, B., Tekin, H. O., Khourshid,
- H., Kumar, H., Mallya, A., Sambasivam, S., & Obaidat, I. M. (2021). Specific Absorption Rate Dependency on The CO<sup>2+</sup> Distribution and Magnetic Properties In Co<sub>x</sub>Mn<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> Nanoparticles. *Nanomaterials*, 11.
- Nurhasanah, I. (2017). *Dasar-Dasar Nanomaterial; Sintesis dan Aplikasi*. Innosain.
- Obaidat, I. M., Narayanaswamy, V., Alaabed, S., Sambasivam, S., & Muralee Gopi, C. V. V. (2019). Principles of Magnetic Hyperthermia: A Focus on Using Multifunctional Hybrid Magnetic Nanoparticles. *Magnetochemistry*, 5.
- Purohit, M., & Kumar, M. (2022). Boron neutron capture therapy: History and recent advances. *Materials Today: Proceedings*.
- Pal, N., Lee, J. H. and Cho, E. B. (2020) 'Recent Trends In Morphology-Controlled Synthesis And Application of Mesoporous Silica Nanoparticles', *Nanomaterials*, 10(11), pp. 1–38.



- Reddy, L.H. *et al.* (2012) ‘Magnetic Nanoparticles: Design and Characterization, Toxicity and Biocompatibility, Pharmaceutical and Biomedical Applications’, *Chemical Reviews*, 112, pp. 5818–5878.
- Rojas, J. M., Gavilán, H., del Dedo, V., Lorente-Sorolla, E., Sanz-Ortega, L., da Silva, G. B., Costo, R., Perez-Yagüe, S., Talelli, M., Marciello, M., Morales, M. P., Barber, D. F. and Gutiérrez, L. (2017) ‘Time-Course Assessment of The Aggregation And Metabolization of Magnetic Nanoparticles’, *Acta Biomaterialia*, 58, pp. 181–195
- Rahban, D., Doostan, M., dan Salimi, A., (2020). Cancer Therapy; Prospects for Application of Nanoparticles for Magnetic-Based Hyperthermia. *Cancer Investigation*. 38 (8-9), 507-521.
- Rajan, A., Kaczmarek-Szczepański, B., & Sahu, N. K. (2021). Magneto-thermal response of Fe<sub>3</sub>O<sub>4</sub>@CTAB nanoparticles for cancer hyperthermia applications. *Materials Today Communications*, 28, 102583.
- Rascol, E., Daurat, M., da Silva, A., Maynadier, M., Dorandeu, C., Charnay, C., Garcia, M., Lai-Kee-Him, J., Bron, P., Auffan, M., Bi, al, Da Silva, A., Lai-Kee-Him, J., Auffan, M., Liu, W., Angeletti, B., Devoisselle, J.-M., Guari, Y., Gary-Bobo, M., & Chopineau, J. (2017). Biological Fate of Fe<sub>3</sub>O<sub>4</sub> Core-Shell Mesoporous Silica Nanoparticles Depending on Particle Surface Chemistry Biological Fate of Fe<sub>3</sub>O<sub>4</sub> Core-Shell Mesoporous Silica Nanoparticles Depending on Particle Surface Chemistry. *Nanomaterials*, MDPI. 7 (7), 10.3390/nano7070162 . hal-01765587.
- Roy, S. D., Das, K. C., & Dhar, S. S. (2021). Conventional to green synthesis of magnetic iron oxide nanoparticles; its application as catalyst, photocatalyst and toxicity: A short review. *Inorganic Chemistry Communications*, 134(November), 109050.
- Saleh, T. A., & Fadillah, G. (2023). Green synthesis protocols, toxicity, and recent progress in nanomaterial-based for environmental chemical sensors applications. In *Trends in Environmental Analytical Chemistry* (Vol. 39). Elsevier B.V.



- Sodipo, B. K., Noqta, O. A., Aziz, A. A., Katsikini, M., Pinakidou, F., & Paloura, E. C. (2023). Influence of capping agents on fraction of Fe atoms occupying octahedral site and magnetic property of magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles by one-pot co-precipitation method. *Journal of Alloys and Compounds*, 938.
- Selvarajan, V., Obuobi, S. and Ee, P. L. R. (2020) 'Silica Nanoparticles—A Versatile Tool for the Treatment of Bacterial Infections', *Frontiers in Chemistry*, 8(July), pp. 1–16.
- Sani, R., A. (2019). *Karakterisasi Material*. Bumi Aksara.
- Santoso, H., Chalid yanto, D., & Laksono, A. D. (2021). The Prevalence of Cancer in Indonesia: An Ecological Analysis. *Indian Journal of Forensic Medicine & Toxicology*.
- 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.
- Sharma, S. K. (2017). Complex Magnetic Nanostructures. *Complex Magnetic Nanostructures*. Springer Nature.
- Sezer, N., Ari, İ., Biçer, Y., & Koç, M. (2021). Superparamagnetic nanoarchitectures: Multimodal functionalities and applications. In *Journal of Magnetism and Magnetic Materials* (Vol. 538). Elsevier B.V.
- Sajjad, S., Leghari, S. A. K., Ryma, N. U. A., & Farooqi, S. A. (2018). Green synthesis of metal-based nanoparticles and their applications. In *The Macabresque: Human Violation and Hate in Genocide, Mass Atrocity and Enemy-Making* (Issue November).
- Shaterabadi, Z., Nabiyouni, G., & Soleymani, M. (2018). Physics responsible for heating efficiency and self-controlled temperature rise of magnetic nanoparticles in magnetic hyperthermia therapy. In *Progress in Biophysics and Molecular Biology* (Vol. 133, pp. 9–19). Elsevier Ltd.
- Shaw, S. K., Sharma, A., Kailashiya, J., Gupta, S. K., Meena, S. S., Dash, D., Maiti, P., & Prasad, N. K. (2023). Mesoporous Fe<sub>3</sub>O<sub>4</sub> nanoparticle: A prospective



- nano heat generator for thermo-therapeutic cancer treatment modality. *Journal of Magnetism and Magnetic Materials*, 578.
- Singh, J., Dutta, T., Kim, K. H., Rawat, M., Samddar, P., & Kumar, P. (2018). “Green synthesis of metals and their oxide nanoparticles: Applications for environmental remediation”. In *Journal of Nanobiotechnology* (Vol. 16, Issue 1). BioMed Central Ltd.
- Spaldin, N. A. (2010). *Magnetic Materials Fundamentals and Applications*. Cambridge: Cambridge University Press.
- Serantes, D. and Baldomir, D. (2021) ‘Nanoparticle Size Threshold For Magnetic Agglomeration and Associated Hyperthermia Performance’. *Nanomaterials*. 11(11), pp. 1–13.
- Salunkhe, A. B., Khot, V. M. and Pawar, S. H. (2014) ‘Magnetic Hyperthermia with Magnetic Nanoparticles: A Status Review’, *Current Topics in Medicinal Chemistry*, 14(5), pp. 572–594.
- 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.
- Tao, C., & Zhu, Y. (2014). Magnetic mesoporous silica nanoparticles for potential delivery of chemotherapeutic drugs and hyperthermia. *Dalton Transactions*, 43(41), 15482–15490.
- Teo, M. Y., Rathkopf, D. E., & Kantoff, P. (2018). *Treatment of Advanced Prostate Cancer*. Annu. Rev. Med. 2019, 70, 479–499.
- 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(September), p. 104450.
- Veisi, H., Zohrabi, A., Kamangar, S. A., Karmakar, B., Saremi, S. G., Varmira, K., & Hamelian, M. (2021). Green synthesis of Pd/Fe<sub>3</sub>O<sub>4</sub> nanoparticles using Chamomile extract as highly active and recyclable catalyst for Suzuki coupling reaction. *Journal of Organometallic Chemistry*, 951.



- Virk, P., Awad, M. A., Saleh Abdu-llah Alsaif, S., Hendi, A. A., Elobeid, M., Ortashi, K., Qindeel, R., El-Khadragy, M. F., Yehia, H. M., Ferkry Serag EL-DIN, M., & Ali Salama, H. (2023). Green synthesis of Moringa oleifera leaf nanoparticles and an assessment of their therapeutic potential. *Journal of King Saud University - Science*, 35(3).
- Wallyn, J., Anton, N., & Vandamme, T. F. (2019). Synthesis, principles, and properties of magnetite nanoparticles for in vivo imaging applications—A review. *In Pharmaceutics* (Vol. 11, Issue 11). MDPI AG.
- Wang, L., Karmakar, B., Al-Saeed, F. A., Shati, A. A., Bani-Fwaz, M. Z., & Elkott, A. F. (2022). Green synthesis of Ag/Fe<sub>3</sub>O<sub>4</sub> nanoparticles using Mentha longifolia flower extract: evaluation of its antioxidant and anti-lung cancer effects. *Helijon*, 8(12).
- Widakdo, J. (2017) Nanopartikel Zink Nickel Ferrite (Zn<sub>0,5</sub>Ni<sub>0,5</sub>Fe<sub>2</sub>O<sub>4</sub>) Yang Dienkapsulasi dengan Polyethylene Glycol (PEG-4000) dan Silica (SiO<sub>2</sub>). Universitas Gadjah Mada. Yogyakarta.
- Yasemian, A. R., Almasi Kashi, M., & 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.
- Yi, Z., Dumée, L. F., Garvey, C. J., Feng, C., She, F., Rookes, J. E., Mudie, S., Cahill, D. M. and Kong, L. (2015) ‘A New Insight into Growth Mechanism and Kinetics of Mesoporous Silica Nanoparticles by in Situ Small Angle X-ray Scattering’, *Langmuir*, 31(30), pp. 8478–8487.
- Yew, Y.P. et al. (2016). ‘Green Synthesis of Magnetite (Fe<sub>3</sub>O<sub>4</sub>) Nanoparticles Using Seaweed (*Kappaphycus alvarezii*) Extract’, *Nanoscale Research Letters*, 11(1). Yang, M., Tao, L., Kang, X.-R., Wang, Z.-L., Su, L.-Y., Li, L.-F., Gu, F., Zhao, C.-C., Sheng, J., & Tian, Y. (2023). Moringa oleifera Lam. leaves as new raw food material: A review of its nutritional composition, functional properties, and comprehensive application. *Trends in Food Science & Technology*, 138, 399–416.



- Yusefi, M., Shameli, K., Yee, O. S., Teow, S. Y., Hedayatnasab, Z., Jahangirian, H., Webster, T. J., & Kuča, K. (2021). Green synthesis of Fe<sub>3</sub>O<sub>4</sub> nanoparticles stabilized by a garcinia mangostana fruit peel extract for hyperthermia and anticancer activities. *International Journal of Nanomedicine*, 16, 2515–2532.
- Yuliana, F., Sunaryono, S. and Zulaikah, S. (2023) ‘The Effect of PVP on Structural of Fe<sub>3</sub>O<sub>4</sub>@TiO<sub>2</sub> Nanocomposite’, *AIP Conference Proceedings*, 060013(May 2016).
- Zhu, Y., & Tao, C. (2015). DNA-capped Fe<sub>3</sub>O<sub>4</sub>/SiO<sub>2</sub> magnetic mesoporous silica nanoparticles for potential controlled drug release and hyperthermia. *RSC Advances*, 5(29), 22365–22372.
- Zulaicha, A. S., Saputra, I. S., Sari, I. P. and Annas, D. (2020) ‘Sintesis dan Kararkterisasi Modifikasi Mikropartikel Magnetit (Fe<sub>3</sub>O<sub>4</sub>) Dalam Pemanfaatan Karat dengan Ekstrak Daun Ilalang (Imperata cylindrica L)’, *Jurnal Jejaring Matematika dan Sains*, 2(2), pp. 51–55.