

## DAFTAR PUSTAKA

- Abedin, M. I., Islam, A., & Hossain, Q. D. (2015, December). A self-adjusting Lin-Log active pixel for wide dynamic range CMOS image sensor. In *2015 IEEE International Conference on Telecommunications and Photonics (ICTP)* (pp. 1-4). IEEE.
- Ahmed, A., Singh, A., Young, S. J., Gupta, V., Singh, M., & Arya, S. (2023). Synthesis techniques and advances in sensing applications of reduced graphene oxide (rGO) Composites: A review. *Composites Part A: Applied Science and Manufacturing*, *165*, 107373.
- Anand, S., Amaliya, A. P., Asisi, M., & Pauline, J. S. (2021). Structural, morphological, and dielectric studies of zirconium substituted CoFe<sub>2</sub>O<sub>4</sub> nanoparticles. *Materials of Electronics Engineering*, *21*(4), 207-215.
- Anju, M., & Renuka, N. K. (2019). Graphene–dye hybrid optical sensors. *Nano-Structures & Nano-Objects*, *17*, 194-217.
- Bera, M., Gupta, P., & Maji, P. K. (2018). Facile one-pot synthesis of graphene oxide by sonication assisted mechanochemical approach and its surface chemistry. *Journal of nanoscience and nanotechnology*, *18*(2), 902-912.
- Bishop, J. L., King, S. J., Lane, M. D., Brown, A. J., Lafuente, B., Hiroi, T., ... & Sánchez Román, M. (2021). Spectral properties of anhydrous carbonates and nitrates. *Earth and Space Science*, *8*(10), e2021EA001844.
- Callister Jr, W. D., & Rethwisch, D. G. (2020). *Materials science and engineering: an introduction*. John wiley & sons.
- Dedi, D., Idayanti, N., Kristiantoro, T., Alam, G. F. N., & Sudrajat, N. (2018, May). Magnetic properties of cobalt ferrite synthesized by mechanical alloying. In *AIP Conference Proceedings* (Vol. 1964, No. 1). AIP Publishing.
- Devi, L. G., & Srinivas, M. (2017). Hydrothermal synthesis of reduced graphene oxide- CoFe<sub>2</sub>O<sub>4</sub> heteroarchitecture for high visible light photocatalytic activity: Exploration of efficiency, stability and mechanistic pathways. *Journal of environmental chemical engineering*, *5*(4), 3243-3255.

- Divya, S., Sivaprakash, P., Raja, S., Muthu, S. E., Kim, I., Renuka, N., ... & Oh, T. H. (2022). Impact of Zn doping on the dielectric and magnetic properties of CoFe<sub>2</sub>O<sub>4</sub> nanoparticles. *Ceramics International*, 48(22), 33208-33218.
- Fajri, N., Putri, L. F. A., Prasetio, M. R., Azizah, N., Pratama, Y., & Susanto, N. C. A. (2022). Potensi Batang Pisang (*Musa paradisiaca* L) sebagai bioreduktor dalam Green Sintesis Ag nanopartikel. *Jurnal Penelitian Sains*, 24(1), 33- 37.
- Ganesan, M., Ganapathi, B., Govindasamy, P., Parasuraman, B., Shanmugam, P., Boddula, R., ... & Thangavelu, P. (2024). CoFe<sub>2</sub>O<sub>4</sub>/rGO nanocomposite: Synthesis and enhanced ammonia gas sensing properties at room temperature. *Results in Chemistry*, 7, 101342.
- Halvorsen, A. M. (2014). *Hydrophobic coatings for anti-icing applications* (Master's thesis, Institutt for materialteknologi).
- Indiarto, R., Indriana, L. P. A., Andoyo, R., Subroto, E., & Nurhadi, B. (2022). Bottom-up nanoparticle synthesis: a review of techniques, polyphenol-based core materials, and their properties. *European Food Research and Technology*, 248(1), 1-24.
- Jayanti, P. D., Kusumah, H. P., Mahardhika, L. J., Riswan, M., Wahyuni, S., Adrianto, N., ... & Suharyadi, E. (2024). Localized surface plasmon resonance properties of green synthesized Ag/rGO composite nanoparticles utilizing *Amaranthus viridis* extract for biosensor applications. *Journal of Science: Advanced Materials and Devices*, 9(3), 100747.
- Kalam, A., Al-Sehemi, A. G., Assiri, M., Du, G., Ahmad, T., Ahmad, I., & Pannipara, M. (2018). Modified solvothermal synthesis of cobalt ferrite (CoFe<sub>2</sub>O<sub>4</sub>) magnetic nanoparticles photocatalysts for degradation of methylene blue with H<sub>2</sub>O<sub>2</sub>/visible light. *Results in physics*, 8, 1046-1053.
- Karaca, M., Karaca, C., Eroğlu, Z., Sevim, M., & Karaca, S. (2023). Usage of MnFe<sub>2</sub>O<sub>4</sub>-rGO Nanocomposite as efficient Fenton catalyst for Tetracycline removal by heterogeneous sono Fenton process: Characterizations, catalytic performance assessment, and mechanism. *Materials Chemistry and Physics*, 309, 128379.

- Khan, J., & Jaafar, M. (2021). Reduction efficiencies of natural substances for reduced graphene oxide synthesis. *Journal of Materials Science*, *56*, 18477-18492.
- Kooti, M., Saiahi, S., & Motamedi, H. (2013). Fabrication of silver-coated cobalt ferrite nanocomposite and the study of its antibacterial activity. *Journal of magnetism and magnetic materials*, *333*, 138-143.
- Kotutha, I., Duangchuen, T., Swatsitang, E., Meewasana, W., Khajonrit, J., & Maensiri, S. (2019). Electrochemical properties of rGO/CoFe<sub>2</sub>O<sub>4</sub> nanocomposites for energy storage application. *Ionics*, *25*, 5401-5409.
- Kushwaha, P., & Chauhan, P. (2021). Facile green synthesis of CoFe<sub>2</sub>O<sub>4</sub> nanoparticles using hibiscus extract and their application in humidity sensing properties. *Inorganic and Nano-Metal Chemistry*, *53*(7), 664–671. <https://doi.org/10.1080/24701556.2021.1992432>
- Liu, L., Zhang, Y., Li, C., Cao, J., He, E., Wu, X., ... & Wang, L. (2020). Facile preparation PCL/modified nano ZnO organic-inorganic composite and its application in antibacterial materials. *Journal of Polymer Research*, *27*, 1-11.
- Mahardhika, L. J., Kusumah, H. P., Jayanti, P. D., Tumbelaka, R. M., Ardiyanti, H., Istiqomah, N. I., ... & Suharyadi, E. (2024). Photodegradation enhancement of organic dyes using magnetically separable and reusable Fe<sub>3</sub>O<sub>4</sub>/rGO nanocomposites green-synthesized utilizing plant leaves extract. *Case Studies in Chemical and Environmental Engineering*, *10*, 100915.
- Mahdikah, V., Saadatkia, S., Sheibani, S., & Ataie, A. (2020). Outstanding photocatalytic activity of CoFe<sub>2</sub>O<sub>4</sub>/rGO nanocomposite in degradation of organic dyes. *Optical Materials*, *108*, 110193.
- Mallenakuppe, R., Homabalegowda, H., Gouri, M. D., Basavaraju, P. S., & Chandrashekharaiah, U. B. (2015). History, taxonomy and propagation of *Moringa oleifera*—a review. *crops*, *3*(3.28), 3-15.
- McNeil, S. E. (2005). Nanotechnology for the biologist. *Journal of leukocyte biology*, *78*(3), 585-594.

- Mudzakir, A. (2008). Metode Spektroskopi Inframerah untuk Analisis Material. *Bandung: Universitas Pendidikan Indonesia*.
- Nicolet, T., & All, C. (2001). Introduction to fourier transform infrared spectrometry. *Thermo Nicolet Corporation*.
- Nova, E., Redondo-Useros, N., Martínez-García, R. M., Gómez-Martínez, S., Díaz-Prieto, L. E., & Marcos, A. (2020). Potential of Moringa oleifera to improve glucose control for the prevention of diabetes and related metabolic alterations: a systematic review of animal and human studies. *Nutrients, 12*(7), 2050.
- Obodo, R. M., Ahmad, I., & Ezema, F. I. (2019). Introductory chapter: graphene and its applications. In *Graphene and Its Derivatives-Synthesis and Applications*. Intechopen.
- Oh, Y., Sahu, M., Hajra, S., Padhan, A. M., Panda, S., & Kim, H. J. (2022). Spinel ferrites (CoFe<sub>2</sub>O<sub>4</sub>): synthesis, magnetic properties, and electromagnetic generator for vibration energy harvesting. *Journal of Electronic Materials, 51*(5), 1933-1939.
- Omiddezyani, S., Gharekhani, S., Yousefi-Asli, V., Khazaei, I., Ashjaee, M., Nayebi, R., ... & Houshfar, E. (2021). Experimental investigation on thermo-physical properties and heat transfer characteristics of green synthesized highly stable CoFe<sub>2</sub>O<sub>4</sub>/rGO nanofluid. *Colloids and Surfaces A: Physicochemical and Engineering Aspects, 610*, 125923.
- Pratama, A., Destiarti, L., & Adhitiyawarman, A. (2021). *Sintesis Titanium Oksida/Reduced Graphene Oxide (TiO<sub>2</sub>/rGO) untuk Fotokatalisis Bahan Pewarna Metilen Biru*. *Positron, 11* (1), 31–37.
- Rani, N. Z. A., Husain, K., & Kumolosasi, E. (2018). Moringa genus: a review of phytochemistry and pharmacology. *Frontiers in pharmacology, 9*, 108.
- Saha, A., Basiruddin, S. K., Ray, S. C., Roy, S. S., & Jana, N. R. (2010). Functionalized graphene and graphene oxide solution via polyacrylate coating. *Nanoscale, 2*(12), 2777-2782.
- Saini, R.K., Sivanesan, I. & Keum, YS. Phytochemicals of *Moringa oleifera*: a review of their nutritional, therapeutic and industrial significance. 3

- Biotech* **6**, 203 (2016). <https://doi.org/10.1007/s13205-016-0526-3>
- Senapati, K. K., Borgohain, C., & Phukan, P. (2011). Synthesis of highly stable CoFe<sub>2</sub>O<sub>4</sub> nanoparticles and their use as magnetically separable catalyst for Knoevenagel reaction in aqueous medium. *Journal of Molecular Catalysis A: Chemical*, *339*(1-2), 24-31.
- Setiadi, E. A., Shabrina, N., Utami, H. R. B., Fahmi, N. F., Kato, T., Iwata, S., & Suharyadi, E. (2013). Sintesis nanopartikel cobalt ferrite (CoFe<sub>2</sub>O<sub>4</sub>) dengan metode kopresipitasi dan karakterisasi sifat kemagnetannya. *Indonesian Journal of Applied Physics*, *3*(1), 55-62.
- Souza Simões, L., Madalena, D. A., Pinheiro, A. C., Teixeira, J. A., Vicente, A. A., & Ramos, Ó. L. (2017). Micro-and nano bio-based delivery systems for food applications. *Vitro. Behavior. Adv. Colloid Interface Sci*, *243*, 23-45.
- Tamhankar, P. M., Kulkarni, A. M., & Watawe, S. C. (2011). Functionalization of cobalt ferrite nanoparticles with alginate coating for biocompatible applications. *Mater. Sci. Appl*, *2*(9), 1317-1321.
- Yalcin, B. *et al.* (2021) 'Structural, optical, magnetic, photocatalytic activity and related biological effects of CoFe<sub>2</sub>O<sub>4</sub> ferrite nanoparticles', *Journal of Materials Science: Materials in Electronics*, *32*(10), pp. 13068–13080. Available at: <https://doi.org/10.1007/s10854-021-05752-6>.
- Zheng, J., Song, X., Liu, X., Chen, W., Li, Y., & Guo, J. (2012). Synthesis of hexagonal CoFe<sub>2</sub>O<sub>4</sub>/ZnO nanoparticles and their electromagnetic properties. *Materials Letters*, *73*, 143-146.
- Zurnansyah, Jayanti, P. D., Mahardhika, L. J., Kusumah, H. P., Ardiyanti, H., Wibowo, N. A., Istiqomah, N. I., ... & Suharyadi, E. (2024). Real-time biomolecule detection using GMR chip-based sensor with green-synthesized Fe<sub>3</sub>O<sub>4</sub>/rGO nanocomposites as magnetic labels. *Sensors and Actuators A: Physical*, *375*, 115493.