

DAFTAR PUSTAKA

- Adhim, M. S. (2018). Sintesis nanopartikel Fe_3O_4 (magnetit) dari batu besi menggunakan metode kopresipitasi dengan variasi pH. *Skripsi*, 4, 1-59.
- Ansori, C., Raharjo, P. D., Setianto, A., Warmada, I. W., & Setiawan, N. I. (2020). *Geomorphology and iron sand potential at coastal sediment morphology, Kebumen Regency. E3S Web of Conferences*, 200.
- Bajaj & Joshi. (2021). Metode kopresipitasi.
- Blaney, L. (2007). *Magnetite (Fe_3O_4): properties, synthesis, and applications. magnetite (Fe_3O_4): Properties, Synthesis, and Applications*, 15.
- Callister, W. D. J., & Rethwisch, D. G. (2017). *Materials science and engineering an introduction*. United States of America.
- Darminto, D., Baqiya, M., Cahyono, Y., Triwikantoro, T. (2011). *Preparing Fe_3O_4 nanoparticles from Fe^{2+} ions source by coprecipitation process in various pH. AIP Conference Proceedings*, 234-237.
- Darminto, Cholishoh, M.N., Perdana, F.A., Baqiya, M.A., Mashuri, Cahyono, Y., Triwikantoro, dkk. (2011). *Preparing Fe_3O_4 nanoparticles from Fe^{2+} ions source by co-precipitation process in various pH*. 234-237.
- Febryanti, P. V., Mardana, I. B. P., Budiarta, I. N. E. (2026). Sintesis Dan Karakterisasi Magnetit (Fe_3O_4) Dari Pasir Besi Melalui Metode Kopresipitasi: Sebuah Tinjauan Literatur. 6(3), 2359–2375.
- Febriliani, A., Rama Denny, Y., & Antarnusa, G. (2025). Analisis XRD nanopartikel Fe_3O_4 dengan variasi suhu sintesis. 6(1), 14-18.
- Elsafitri, O., MZ², N., Deswardani, F. 2020. Sintesis dan karakterisasi nanopartikel Fe_3O_4 (magnetit) dari pasir besi Sungai Batanghari Jambi yang dienkapsulasi dengan *polyethylene glycol* (peg-4000). 8(3). 97-103.
- Goiti et al. (2007). *Effect of magnetic nanoparticles on the thermal properties of some hydrogels. Polymer Degradation and Stability*, 92(12), 2198-2205.
- Gong dan Lin. (2003). *Facilitated electron transfer of hemoglobin embedded in nanosized Fe_3O_4 matrix based on paraffin impregnated graphite electrode and electrochemical catalysis for trichloroacetic acid. Microchemical Journal*, 75(1), 51-57.

- Hariani, P., Faizal, M., Ridwan, R. (2013). *Synthesis and properties of Fe₃O₄ nanoparticles by co-precipitation method to removal procion dye. International Journal of Environmental Science and Development*, 4(3), 336-340.
- Hasan, S. (2015). *A review on nanoparticles: Their Synthesis and Types. Research Journal of Recent Sciences*, 1-3.
- Hashimoto, Y., Taguchi, M., Fukami, S., Momono, H., Matsushita, T., Matsuda, H., Matsui, F., & Daimon, H. (2019). *Site-sensitive X-ray photoelectron spectroscopy of Fe₃O₄ by photoelectron diffraction. Surface and Interface Analysis*, 51(1), 115-119.
- Huang, J., Bu, L., Xie, J., Chen, K., Dong, X., Ding, Y., & Xing, C. (2015). *Advances in magnetic nanoparticles for biotechnology applications. Current Medicinal Chemistry*, 22(10), 1350-1369.
- Hu, P., Zhang, S., Wang, H., Pan, D., Tian, J., Tang, Z., & Volinsky, A. A. (2011). *Heat treatment effects on Fe₃O₄ nanoparticles structure and magnetic properties prepared by carbothermal reduction. Journal of Alloys and Compounds*, 509(5), 2316-2319.
- Jeevanandam, J., Barhoum, A., Chan, Y. S., Dufresne, A., & Danquah, M. K. (2018). *Review on nanoparticles and nanostructured materials: history, sources, toxicity and regulations. Beilstein Journal of Nanotechnology*, 9(1), 1050-1074.
- Khan, U. S., Khattak, N. S., Rahman, A., & Khan, F. (2011). *Historical development of magnetite nanoparticles synthesis. Journal of the Chemical Society of Pakistan*, 33(6), 793-804.
- Khedr, M. Z., Zaghloul, H., Takazawa, E., El-Nahas, H., Azer, M. K., & El-Shafei, S. A. (2023). *Genesis and evaluation of heavy minerals in black sands: a case study from the southern Eastern Desert of Egypt. Geochemistry*, 83(1), 125945.
- Kodama. (1997). *Magnetic studies of fine particles and their mineralogical applications. Earth-Science Reviews*, 42(4), 261-286.
- Kristina, N. P. D., Arjana, I. G., Yasa, P. (2024). *Synthesis and characterization of magnetite nanomaterials in Tianyar iron sand using co-precipitation method. Indonesian Physical Review*, 07(03), 398-413.
- Kurnio. (2007). *Coastal characteristics of iron sand deposits in Indonesia. Indonesian Mining Journal*, 10(9), 27-38.
- Li, L., Yang, Y., Ding, J., & Xue, J. (2010). *Synthesis of magnetite nanooctahedra*

and their magnetic field-induced two-/three-dimensional superstructure. *Chemistry of Materials*, 22(10), 3183-3191.

- Mardana, I. B. P., Lutfiyah, Y. N., Yasa. P., & Widiantera, G. K. A. (2024). Synthesis and characterization of magnetite Fe_3O_4 nanoparticles from natural iron sand in Gelar River. *Indonesian Physical Review*, 07(01), 166-173.
- Maity, D., Kale, S. N., Kaul-Ghanekar, R., Xue, J. M., & Ding, J. (2009). *Studies of magnetite nanoparticles synthesized by thermal decomposition of iron (III) acetylacetonate in tri(ethylene glycol)*. *Journal of Magnetism and Magnetic Materials*, 321(19), 3093-3098.
- Mangalampalli, K., Korimilli, E. P., Ramasubramanian, L. N. (2022). Metode kopresipitasi. *Ceramics International*.
- Maylani, A. S., Sulistyaningsih, T., & Kusumastuti, E. (2016). Sebagai adsorben ion logam kadmium. *Indonesian Journal of Chemical Science*, 5(2), 130-135.
- Meng, J., Yang, G., Yan, L. da. W., & X. (2005). *Synthesis and characterization of magnetic nanometer pigment Fe_3O_4* . *Dyes and Pigments*, 66(2), 109-13.
- Muttaqin, R. (2023). Pengembangan buku panduan teknik karakterisasi material : *X-ray Diffractometer (XRD) Panalytical Xpert3 Powder*. *Indonesian Journal of Laboratory*, 1(1), 9.
- Nejabat, S., Siadat, S. O. R., Tahmasian, Z., Mirzajani, F., Fatemi, F., Hosseinkhani, S., & Abedi, M. R. (2021). *How co-precipitation reaction parameters control the characteristics and features of iron oxide nanoparticles*. *Physical Chemistry Research*, 9(2), 242-252.
- Ningsih, S. 2021. Sintesis pasir besi menjadi nanopartikel magnetit melalui penerapan metode kopresipitasi. *Review Literatur*. 3(3). 112-122.
- Permana, P., Saragi, T., Saputri, M., Safriani, L., Rahayu, I., & Risidiana. (2017). Sintesis nanopartikel magnetik dengan metode kopresipitasi. *Jurnal Material dan Energi Indonesia*, 07(02), 17-20.
- Poole, C. P., & Owens, F. J. (2003). *Introduction to nanotechnology*. Wiley, 565, 65-20.
- Prasetyowati, R., Widiawati, D., Swastika, P. E., & Ariswan., W. (2021). Sintesis dan karakterisasi nanopartikel magnetit (Fe_3O_4) berbasis pasir besi Pantai Glagah Kulon Progo dengan metode kopresipitasi pada berbagai variasi konsentrasi NH_4OH . *Jurnal Sains Dasar*, 10(2), 57-61.
- Prater. (1957). *Black sand*. *Idaho Bureau of Mines and Geology*.
- Prayoga, A. (2022). Sintesis dan karakterisasi nanopartikel magnetit (Fe_3O_4) dari

ekstraksi pasir besi Pantai Yeh Gangga. *Skripsi* (tidak diterbitkan). Prodi Pendidikan Fisika, Jurusan Fisika dan Pengajaran IPA, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Pendidikan Ganesha.

Preston, J. W., & Craw, D. (1992). *Magnetite mineralogy, morphology and geochemistry in granitic rocks and soils*. *New Zealand Journal of Geology and Geophysics*, 35(1), 77-91.

Putri, C. A. (2022). Sintesis dan karakterisasi nanopartikel magnetit (Fe_3O_4) berbahan baku pasir besi muara Pantai Sanur Pariaman. *Skripsi Sarjana, Universitas Negeri Padang*.

Rachmawati, D. W., Risha, N., Suswandi, I. (2023). Kelimpahan material magnetik di pasir hitam. *JST (Jurnal Sains Dan Teknologi)*, 12(1), 200-209.

Rahmayanti, M., Santosa, S. J., Sutarno, S., Hamidi, H., & Binagara, L. (2021). *Synthesis, characterization, and application of magnetite (Fe_3O_4) particles as gold adsorbent from simulation waste*. *CHEMICA: Jurnal Teknik Kimia*, 7(2), 151.

Rahmayuni, R., Rifai, H., Dwiridal, L., Yuwanda, A. N., Visgun, D. A., Rahmi, A. (2021). *Distribution pattern of magnetic susceptibility value of iron sand on the surface of Pasia Jambak Beach Pasia Nan Tigo Padang*. *Eksakta : Berkala Ilmiah Bidang MIPA*. 22(04). 302-310

Sartika, D., Malis, E., Subama, E. (2019). Analisis distribusi nanopartikel Fe_3O_4 terhadap penyerapan logam berat Pb. *Jurnal Teknologi Technoscientia*, 12, 8-11.

Sudarningsih, S., Ibrahim, I., & Manik, T. N. (2024). Kajian morfologi mineral magnetik tanah permukaan dari daerah industri di Banjarmasin. *Jurnal Pendidikan, Sains, Geologi, Dan Geofisika (GeoScienceEd Journal)*, 6(1), 70-74.

Triarso *et al.* (2018). Pasir besi.

Tyl, C., & Sadler, G. D. (2017). *pH and titratable acidity* (S. S. Nielsen (ed.)). *Springer*.

Wahyuni dan Hastuti. (2010). *X-ray Diffractometer (XRD)*.

Widiantara, G. K. A., Mardana, I. B. P., Arjana, I. G. (2024). *Synthesis of magnetite nanoparticles (Fe_3O_4) based on Taman River sand magnetic minerals*. *Indonesian Physical Review (IPR)*, 7(3), 327-337.

Widiantara, G. K. A. (2024). Sintesis nanopartikel magnetit (Fe_3O_4) berbahan dasar pasir Sungai Taman. *Skripsi* (tidak diterbitkan). Prodi Pendidikan Fisika, Jurusan Fisika dan Pengajaran IPA, Fakultas Matematika dan Ilmu

Pengetahuan Alam, Universitas Pendidikan Ganesha.

Williams. (2015). *The geology of iron deposits*. In *Developments in Economic Geology* (Vol. 11, pp. 1-35). Elsevier.

Yilmaz, A., & Yavuz, H. (2006). *Investigation of radiation shielding properties of magnetite concrete*. *Applied Radiation and Isotopes*, 64(7), 793-796.

Yuwanda, A. N., Rahmayuni, R., Visgun, D. A., Rahmi, A., Rifai, H., & Dwiridal, L. (2022). *Characterization of magnetic minerals of iron sand Pasia Nan Tigo Padang Beach using X-Ray Diffraction (XRD)*. *Indonesian Journal of Applied Physics*, 12(1), 35.

