DAFTAR PUSTAKA

Academic press. (2022). *Microscope image processing* (F. Merchant & K. Castelman, Ed.; Second Edition).

Akman, O., Kavas, H., Baykal, A., Toprak, M. S., Çoruh, A., & Aktaş, B. (2013). Magnetic Metal Nanoparticles Coated Polyacrylonitrile Textiles as Microwave Absorber. *Journal of Magnetism and Magnetic Materials*, *327*, 151–158. https://doi.org/10.1016/j.jmmm.2012.09.032

Anand, S., Pauline, S., & Prabagar, C. J. (2020). Zr Doped Barium Hexaferrite Nanoplatelets and RGO Fillers Embedded Polyvinylidenefluoride Composite Films for Electromagnetic Interference Shielding Applications. *Polymer Testing*, *86*. https://doi.org/10.1016/j.polymertesting.2020.106504

Ates, B., Koytepe, S., Ulu, A., Gurses, C., & Thakur, V. K. (2020). Chemistry, Structures, and Advanced Applications of Nanocomposites from Biorenewable Resources. Dalam *Chemical Reviews* (Vol. 120, Nomor 17, hlm. 9304–9362). American Chemical Society. https://doi.org/10.1021/acs.chemrev.9b00553

Beheshti, K. A., & Yousefi, M. (2021). Magnetic and Microwave Absorption of BaMgxZrxFe12-2xO19 Polyaniline Nanocomposites. *Journal of Alloys and Compounds*, *859*. https://doi.org/10.1016/j.jallcom.2020.157861

Birajdar, A. A. (2023). *A Study of Initinal Permeability and Magnetic Properties of Ferrit Material*.

Bonaguide, G., & Jarvis, N. (2019). *The VNA Applications Handbook. Artech House*. Artech House.

Chen, Y., Pötschke, P., Pionteck, J., Voit, B., & Qi, H. (2020). *Multifunctional Cellulose/rGO/Fe3O4 Composite Aerogels for Electromagnetic Interference Shielding*.

Chung, D. D. L. (2020). Materials for Electromagnetic Interference Shielding. Dalam *Materials Chemistry and Physics* (Vol. 255). Elsevier Ltd. https://doi.org/10.1016/j.matchemphys.2020.123587

Durmus, Z., Durmus, A., & Kavas, H. (2015). Synthesis and Characterization of Structural and Magnetic Properties of Graphene/Hard Ferrite Nanocomposites as Microwave-Absorbing Material. *Journal of Materials Science*, *50*(3), 1201–1213. https://doi.org/10.1007/s10853-014-8676-3

Elmahaishi, M. F., Azis, R. S., Ismail, I., & Muhammad, F. D. (2022). A Review on Electromagnetic Microwave Absorption Properties: Their Materials and Performance. *Journal of Materials Research and Technology*, *20*, 2188–2220. https://doi.org/https://doi.org/10.1016/j.jmrt.2022.07.140

Fauzi, A. (2016). PENGARUH WAKTU MILLING TERHADAP DAN UKURAN BUTIR FORSTERITE (Mg 2 SiO 4) MINERAL SERPENTIN DARI KABUPATEN SOLOK SELATAN. Dalam *PILLAR OF PHYSICS* (Vol. 8).

Gaeta, M., Cavallaro, M., Vinci, S. L., Mormina, E., Blandino, A., Marino, M. A., Granata, F., Tessitore, A., Galletta, K., D'Angelo, T., & Visalli, C. (2021). Magnetism of Materials: Theory and Practice in Magnetic Resonance Imaging. Dalam *Insights into Imaging* (Vol. 12, Nomor 1). Springer Science and Business Media Deutschland GmbH. https://doi.org/10.1186/s13244-021-01125-z

Gairola, P., Gairola, S. P., Kumar, V., Singh, K., & Dhawan, S. K. (2016). Barium Ferrite and Graphite Integrated with Polyaniline as Effective Shield against Electromagnetic Interference. *Synthetic Metals*, *221*, 326–331. https://doi.org/10.1016/j.synthmet.2016.09.023

Ganapathe, L. S., Mohamed, M. A., Yunus, R. M., & Berhanuddin, D. D. (2020). Magnetite (Fe3O4) Nanoparticles in Biomedical Application: From Synthesis to Surface Functionalisation. Dalam *Magnetochemistry* (Vol. 6, Nomor 4, hlm. 1–35). MDPI AG. https://doi.org/10.3390/magnetochemistry6040068

Gao, Z., Dong, X., Li, N., & Ren, J. (2017). Novel Two-Dimensional Silicon Dioxide with in-Plane Negative Poisson's Ratio. *Nano Letters*, *17*(2), 772–777. https://doi.org/10.1021/acs.nanolett.6b03921

Godara, S. K., Dhaka, R. K., Kaur, N., Malhi, P. S., Kaur, V., Sood, A. K., Bahel, S., Bhadu, G. R., Chaudhari, J. C., Pushkarna, I., & Singh, M. (2021). Synthesis and Characterization of Jamun Pulp Based M-type Barium

Hexaferrite via Sol–Gel Auto-Combustion. *Results in Physics*, *22*. https://doi.org/10.1016/j.rinp.2021.103903

Gorrasi, G., & Sorrentino, A. (2015). Mechanical milling as a technology to produce structural and functional bio-nanocomposites. Dalam *Green Chemistry* (Vol. 17, Nomor 5, hlm. 2610–2625). Royal Society of Chemistry. https://doi.org/10.1039/c5gc00029g

Gunanto, Y. E., Izaak, M. P., Silaban, S. S., & Adi, W. A. (2018). Effect of milling time on microwave absorption ability on barium-hexaferrite nanoparticles. *Journal of Physics: Conference Series*, *1011*(1). https://doi.org/10.1088/1742-6596/1011/1/012058

Haiqal, A., Pamungkas Priambodo, D., & Faddakiri, F. A. (2024). Development of Perovskite Manganate-Based Materials as Microwave Absorbers (A Literature Study). *Geophysics, Instrumentation and Theoretical Physics-fiziya*, *6*(2023), 63–79. https://doi.org/10.15408/fiziya.v6i2.36991

Handoko, E., Budi, S., Sugihartono, I., Marpaung, M. A., Jalil, Z., Taufiq, A., & Alaydrus, M. (2020). Microwave Absorption Performance of Barium Hexaferrite Multi-Nanolayers. *Materials Express*, *10*(8), 1328–1336. https://doi.org/10.1166/mex.2020.1811

Handoko, E., Iwan, S., Budi, S., Anggoro, B. S., Mangasi, A. M., Randa, M., Zulkarnain, J., Kurniawan, C., Sofyan, N., & Alaydrus, M. (2018). Magnetic and Microwave Absorbing Properties of BaFe12-2xCoxZnxO19 (x = 0.0; 0.2; 0.4; 0.6) Nanocrystalline. *Materials Research Express*, *5*(6). https://doi.org/10.1088/2053-1591/aac4d7

Hodaei, A., Ataie, A., & Mostafavi, E. (2015). Intermediate Milling Energy Optimization to Enhance The Characteristics of Barium Hexaferrite Magnetic Nanoparticles. *Journal of Alloys and Compounds*, *640*, 162–168. https://doi.org/10.1016/j.jallcom.2015.03.230

Idayanti, N., Kristiantoro, T., Septiani, A., & Kartika, I. (2017). Magnetic Properties of Barium Ferrite after Milling by High Energy Milling (HEM). *MATEC Web of Conferences*, *101*. https://doi.org/10.1051/matecconf/201710101011

Jacobo, S. E., Bercoff, P. G., Herme, C. A., & Vives, L. A. (2015). Sr Hexaferrite/Ni Ferrite Nanocomposites: Magnetic Behavior and Microwave Absorbing Properties in the X-band. *Materials Chemistry and Physics*, *157*, 124–129. https://doi.org/10.1016/j.matchemphys.2015.03.026

Jiang, D., Murugadoss, V., Wang, Y., Lin, J., Ding, T., Wang, Z., Shao, Q., Wang, C., Liu, H., Lu, N., Wei, R., Subramania, A., & Guo, Z. (2019). Electromagnetic Interference Shielding Polymers and Nanocomposites - A Review. Dalam *Polymer Reviews* (Vol. 59, Nomor 2, hlm. 280–337). Taylor and Francis Inc. https://doi.org/10.1080/15583724.2018.1546737

Kaur, T., Kumar, S., Bhat, B. H., & Srivastava, A. K. (2015). *Enhancement in Physical Properties of Barium Hexaferrite with Substitution*. https://doi.org/10.1557/jmr

Kumar, S., Supriya, S., Pandey, R., Pradhan, L. K., Singh, R. K., & Kar, M. (2018). Effect of Lattice Strain on Structural and Magnetic Properties of Ca Substituted Barium Hexaferrite. *Journal of Magnetism and Magnetic Materials*, *458*, 30–38. https://doi.org/10.1016/j.jmmm.2018.02.093

Li, J., Zhou, D., Wang, P. J., Du, C., Liu, W. F., Su, J. Z., Pang, L. X., Cao, M. S., & Kong, L. B. (2021). Recent Progress in Two-Dimensional Materials for Microwave Absorption Applications. Dalam *Chemical Engineering Journal* (Vol. 425). Elsevier B.V. https://doi.org/10.1016/j.cej.2021.131558

Majumder, D. D., Majumder, D. D., & Karan, S. (2013). Magnetic Properties of Ceramic Nanocomposites. Dalam *Ceramic Nanocomposites*. Elsevier Inc. https://doi.org/10.1533/9780857093493.1.51

Marpaung, M. A., Sulaiman, F. H., & Jalil, Z. (2022). Influence of Ti-Al Substitution on Structure, Magnetic and Microwave Absorption Properties in Barium Hexaferrite. *Journal of Physics: Conference Series*, *2377*(1). https://doi.org/10.1088/1742-6596/2377/1/012007

Mathauer, K. (2020). *Diplomarbeit 3D Printing and in Situ Aligning of Anisotropic Polymer-Bonded Magnets*.

Mathews, S. A., & Babu, D. R. (2021). Analysis of the Role of M-type Hexaferrite-Based Materials in Electromagnetic Interference Shielding. Dalam *Current*

Applied Physics (Vol. 29, hlm. 39–53). Elsevier B.V. https://doi.org/10.1016/j.cap.2021.06.001

Mullick, S., Rana, G., Kumar, A., Sharma, G., & Mu. Naushad. (2021). *Mullick, Shanta, et al. "'Ferrites': Synthesis, Structure, Properties and Applications." Ferrite: Nanostructures with Tunable Properties and Diverse Applications 112 (2021): 1-61.* (Vol. 112). https://doi.org/https://doi.org/10.21741/9781644901595-1

Munasir, Triwikantoro, Zainuri, M., & Darminto. (2015). Synthesis of SiO2 Nanopowders Containing Quartz and Cristobalite Phases from Silica Sands. *Materials Science- Poland*, *33*(1), 47–55. https://doi.org/10.1515/msp-2015-0008

Muqoddam, M., Kartika, W., & Wibowo, S. A. (2020). Modul Digitalisasi Mikroskop. *Medika Teknika : Jurnal Teknik Elektromedik Indonesia*, *2*(1). https://doi.org/10.18196/mt.020113

Nguyen, T. X., Vuong, O. K. T., Nguyen, H. T., & Nguyen, V. Van. (2017). Preparation and Magnetic Properties of MnBi/Co Nanocomposite Magnets. *Journal of Electronic Materials*, *46*(6), 3359–3366. https://doi.org/10.1007/s11664-017-5345-8

Nikmah, A., Taufiq, A., & Hidayat, A. (2019). Synthesis and Characterization of Fe3O4/SiO2 Nanocomposites. *IOP Conference Series: Earth and Environmental Science*, *276*(1). https://doi.org/10.1088/1755-1315/276/1/012046

Nikmanesh, H., Hoghoghifard, S., & Hadi-Sichani, B. (2019). Study of the Structural, Magnetic, and Microwave Absorption Properties of the Simultaneous Substitution of Several Cations in the Barium Hexaferrite Structure. *Journal of Alloys and Compounds*, *775*, 1101–1108. https://doi.org/10.1016/j.jallcom.2018.10.051

Prasongko, W. G., & Priyono, P. (2014). Pembuatan Material Magnetik Komposit BaFe9Mn0, 75Co0, 75Ti1, 5O19/Elastomer untuk Aplikasi Penyerap Gelombang Elektromagnetik. *Youngster Physics Journal*, *3*(1), 71–76.

Pullar, R. C. (2012). Hexagonal Ferrites: A Review of the Synthesis, Properties and Applications of Hexaferrite Ceramics. Dalam *Progress in Materials Science* (Vol. 57, Nomor 7, hlm. 1191–1334). https://doi.org/10.1016/j.pmatsci.2012.04.001

Russell, C. L. (2018). 5 G wireless telecommunications expansion: Public health and environmental implications. *Environmental Research*, *165*, 484–495. https://doi.org/10.1016/j.envres.2018.01.016

Salem, M. M., Darwish, K. A., Hemeda, O. M., Abdel Ati, M. I., Abd El-Hameed, A. S., Zhou, D., & Darwish, M. A. (2023). Exploring the Promising Frontiers of Barium Hexaferrite and Barium Titanate Composites for Electromagnetic Shielding Applications. *Applied Physics A: Materials Science and Processing*, *129*(9). https://doi.org/10.1007/s00339-023-06916-3

Sandoval, S. S., & Silva, N. (2023). Review on Generation and Characterization of Copper Particles and Copper Composites Prepared by Mechanical Milling on a Lab-Scale. Dalam *International Journal of Molecular Sciences* (Vol. 24, Nomor 9). Multidisciplinary Digital Publishing Institute (MDPI). https://doi.org/10.3390/ijms24097933

Sari, N., & Andi Fadlly, T. (2021). Pengaruh Waktu Milling Terhadap Sifat Desorpsi Material Penyimpan Hidrogen MgH2-Ni Melalui Teknik Mechanical Alloying. *Serambi Engineering*, *VI*(3).

Sembiring, T., & Susantika Perangin-angin, E. (2023). Fabrication and Characterization of SiO 2-Fe 3 O 4 Using Co-Precipitation Method. *Journal of Technomaterial Physics Journal homepage*, *05*(01), 1–007. https://doi.org/10.32734/jotp.v5i1.9887

Shinde, V. S., & Dahotre, S. G. (2021). Comparative Study of Structural and Magnetic Properties of Ni and La Substituted Calcium Hexaferrite. *Ceramica*, *67*(383), 301–307. https://doi.org/10.1590/0366-69132021673833111

Shoaib, N. (2016). *Vector Network Analyzer (VNA) Measurements and Uncertainty Assessment*. PoliTO Springer Series. https://doi.org/10.1007/978-3-319-44772-8

Tong, X. C. (2016). *Advanced materials and design for electromagnetic interference shielding*. CRC Press. http://www.crcpress.com

Vaz, M. G. F., & Andruh, M. (2021). Molecule-Based Magnetic Materials Constructed from Paramagnetic Organic Ligands and Two Different Metal Ions. Dalam *Coordination Chemistry Reviews* (Vol. 427). Elsevier B.V. https://doi.org/10.1016/j.ccr.2020.213611

Wanasinghe, D., & Aslani, F. (2019). A Review on Recent Advancement of Electromagnetic Interference Shielding Novel Metallic Materials and Processes. Dalam *Composites Part B: Engineering* (Vol. 176). Elsevier Ltd. https://doi.org/10.1016/j.compositesb.2019.107207

Wang, X. X., Cao, W. Q., Cao, M. S., & Yuan, J. (2020). Assembling Nano–Microarchitecture for Electromagnetic Absorbers and Smart Devices. Dalam *Advanced Materials* (Vol. 32, Nomor 36). Wiley-VCH Verlag. https://doi.org/10.1002/adma.202002112

William, W., Simbolon, T. R., Ginting, H., Sardjono, P., & Muljadi, M. (2016). PENGARUH WAKTU DRY MILLING TERHADAP KARAKTERISTIK DAN SIFAT MAGNET PERMANEN ND-FE-B. *Spektra: Jurnal Fisika dan Aplikasinya*, *1*(1), 17–22. https://doi.org/10.21009/SPEKTRA.011.03

Yao, G., Duan, M. C., Liu, N., Wu, Y., Guan, D. D., Wang, S., Zheng, H., Li, Y. Y., Liu, C., & Jia, J. F. (2019). Diamagnetic Response of Potassium-Adsorbed Multilayer FeSe Film. *Physical Review Letters*, *123*(25). https://doi.org/10.1103/PhysRevLett.123.257001

Yusmaniar, Erdawati, Sosiati, H., Budi, S., Alaydrus, M., & Handoko, E. (2021). Microwave Absorbing Characteristics of Fe3O4@SiO2 Core-Shell Polyaniline-Based Composites. *Materials Research Express*, *8*(4). https://doi.org/10.1088/2053-1591/abf52a

Zeng, X., Cheng, X., Yu, R., & Stucky, G. D. (2020). Electromagnetic Microwave Absorption Theory and Recent Achievements in Microwave Absorbers. Dalam *Journal Pre-proof* (Vol. 168, hlm. 606–623). Elsevier Ltd. https://doi.org/10.1016/j.carbon.2020.07.028

Zhu, J., Wei, S., Chen, M., Gu, H., Rapole, S. B., Pallavkar, S., Ho, T. C., Hopper, J., & Guo, Z. (2013). Magnetic Nanocomposites for Environmental Remediation. *Advanced Powder Technology*, *24*(2), 459–467. https://doi.org/10.1016/j.apt.2012.10.012