

DAFTAR PUSTAKA

- [1] Y. Taryana, A. Manaf, N. Sudrajat, and Y. Wahyu, “Electromagnetic Wave Absorbing Materials on Radar Frequency Range,” *Jurnal Keramik dan Gelas Indonesia*, vol. 28, no. 1, p. 1, Jun. 2019, doi: 10.32537/jkgi.v28i1.5197.
- [2] A. Ghasemi, A. Hossienpour, A. Morisako, A. Saatchi, and M. Salehi, “Electromagnetic properties and microwave absorbing characteristics of doped barium hexaferrite,” *J Magn Magn Mater*, vol. 302, no. 2, pp. 429–435, Jul. 2006, doi: 10.1016/j.jmmm.2005.10.006.
- [3] W. Widanarto, M. Jandra, S. K. Ghoshal, M. Effendi, and W. T. Cahyanto, “BaCO₃ mediated modifications in structural and magnetic properties of natural nanoferrites,” *Journal of Physics and Chemistry of Solids*, vol. 79, pp. 78–81, Apr. 2015, doi: 10.1016/j.jpcs.2014.12.011.
- [4] A. Cheenmatchaya and S. Kungwankunakorn, “Preparation of Activated Carbon Derived from Rice Husk by Simple Carbonization and Chemical Activation for Using as Gasoline Adsorbent,” *International Journal of Environmental Science and Development*, pp. 171–175, 2014, doi: 10.7763/IJESD.2014.V5.472.
- [5] G. F. Agung M, M. R. Hanafie Sy, and P. Mardina, “EKSTRAKSI SILIKA DARI ABU SEKAM PADI DENGAN PELARUT KOH,” *Konversi*, vol. 2, no. 1, p. 28, Apr. 2013, doi: 10.20527/k.v2i1.125.
- [6] M. Malahayati, E. Yufita, I. Ismail, M. Mursal, R. Idroes, and Z. Jalil, “Hydrogen desorption properties of MgH₂ + 10 wt% SiO₂ + 5 wt% Ni prepared by planetary ball milling,” *Bulletin of Chemical Reaction Engineering & Catalysis*, vol. 16, no. 2, pp. 280–285, 2021, doi: 10.9767/bcrec.16.2.10220.280-285.
- [7] W. Widanarto, M. Effendi, S. K. Ghoshal, C. Kurniawan, E. Handoko, and M. Alaydrus, “Bio-silica incorporated barium ferrite composites: Evaluation of structure, morphology, magnetic and microwave absorption traits,” *Current Applied Physics*, vol. 20, no. 5, pp. 638–642, May 2020, doi: 10.1016/j.cap.2020.02.019.
- [8] S. Pamungkas, “Pengaruh Konsentrasi Biosilika Terhadap Struktur dan Sifat Magnetik Barium Ferit Sebagai Penyerap Gelombang Mikro,” Universitas Jenderal Soedirman, Purwokerto, 2022.
- [9] L. A. Taylor and T. T. Meek, “Microwave Sintering of Lunar Soil: Properties, Theory, and Practice,” *J Aerosp Eng*, pp. 188–196, Jul. 2005, doi: 10.1061/ASCE0893-1321200518:3188.

- [10] X. Huang, Y. J. Guo, and J. A. Zhang, “Multi-Gigabit Microwave and Millimeter-Wave Communications Research at CSIRO,” in *2014 14th International Symposium on Communications and Information Technologies (ISCIT)*, 2014, pp. 542–546. doi: 10.1109/ISCIT.2014.7011973.
- [11] F. Thiel, M. Hein, U. Schwarz, J. Sachs, and F. Seifert, “Combining magnetic resonance imaging and ultrawideband radar: A new concept for multimodal biomedical imaging,” *Review of Scientific Instruments*, vol. 80, no. 1, 2009, doi: 10.1063/1.3065095.
- [12] J. D. Williams, “Advanced technologies for perimeter intrusion detection sensors,” in *European Convention on Security and Detection*, IEE, 1995, pp. 133–137. doi: 10.1049/cp:19950484.
- [13] Y. and S. R. and S. D. J. Liu W. and Liu, “Nanostructured Exchange-Coupled Magnets,” in *Handbook of Advanced Magnetic Materials*, D. J. and S. D. Liu Yi and Sellmyer, Ed., Boston, MA: Springer US, 2006, pp. 182–266. doi: 10.1007/1-4020-7984-2_6.
- [14] F. Ruiz-Perez, S. M. López-Estrada, R. V. Tolentino-Hernández, and F. Caballero-Briones, “Carbon-based radar absorbing materials: A critical review,” *Journal of Science: Advanced Materials and Devices*, vol. 7, no. 3, p. 100454, Sep. 2022, doi: 10.1016/j.jsamd.2022.100454.
- [15] T. Xia, C. Zhang, N. A. Oyler, and X. Chen, “Hydrogenated TiO_x Nanocrystals: A Novel Microwave Absorbing Material,” *Advanced Materials*, vol. 25, no. 47, pp. 6905–6910, Dec. 2013, doi: 10.1002/adma.201303088.
- [16] L. Trivana, S. Sugiarti, and E. Rohaeti, “Sintesis Dan Karakterisasi Natrium Silikat (Na₂SiO₃)”, 2015.
- [17] S. Kurama and H. Kurama, “The reaction kinetics of rice husk based cordierite ceramics,” *Ceram Int*, vol. 34, no. 2, pp. 269–272, 2008, doi: 10.1016/j.ceramint.2006.09.017.
- [18] W. D. Callister, *Materials science and engineering : an introduction*. New York: John Wiley, 2003.
- [19] B. Adjiantoro, M. Y. Hasbi, E. Mabruri, S. D. Yudanto, N. I. Ciptasari, and S. A. Chandra, “OPTIMALISASI PROSES PEMURNIAN SILIKON TINGKAT METALURGI MENGGUNAKAN CAMPURAN LARUTAN ASAM HCl DAN HF,” *Jurnal Teknologi Mineral dan Batubara*, vol. 14, no. 1, p. 47, Jan. 2018, doi: 10.30556/jtmb.Vol14.No1.2018.148.
- [20] R. E. Smallman and R. J. Bishop, *Modern Physical Metallurgy and Materials Engineering*, 7th ed. 2000.

- [21] D. Setyaningrum, E. B. Susatyo, and M. Alauhdin, “SINTESIS MEMBRAN KITOSAN-SILIKA ABU SEKAM PADI UNTUK FILTRASI ION Cd²⁺ DAN Cu²⁺,” *Indonesian Journal of Chemical Science*, vol. 3, pp. 75–80, May 2014.
- [22] Darminto, M. Zainuri, and E. I. Kamariyah, “Sintesis Serbuk Barium Heksaferrit dengan Metode Kopresipitasi,” *Seminar Nasional Pascasarjana XI - ITS*, Jul. 2011.
- [23] Yuliasetyawati and Lilis, “Penelitian Bahan High Permanen Magnet dengan Proses Nano Teknologi,” *Metal Indonesia*, vol. XXXV, pp. 62–70, 2013.
- [24] D. P. Efhana, D. E. S. Arifin, D. Viantyas, F. Fitriana, S. Abdillah, and M. Zainuri, “Pembuatan Pelapis Penyerap Gelombang Mikro Berbasis M-hexaferrite BaFe_{12-2x}Zn_xO₁₉ dari Pasir Alam pada Kabin Pesawat,” *Pekan Ilmiah Mahasiswa Nasional Program Kreativitas Mahasiswa - Penelitian 2013*, 2013.
- [25] Ü. Özgür, Y. Alivov, and H. Morkoç, “Microwave ferrites, part 1: fundamental properties,” *Journal of Materials Science: Materials in Electronics*, vol. 20, no. 9, pp. 789–834, Sep. 2009, doi: 10.1007/s10854-009-9923-2.
- [26] W.-K. Chen, *The electrical engineering handbook*. Boston: Elsevier Academic Press, 2005.
- [27] W. D. Callister and D. G. Rethwisch, *Materials science and engineering an introduction*, 10th edition. Hoboken, NJ: John Wiley & Sons, Inc., 2018.
- [28] L. Ren, K. Yu, and Y. Tan, “Applications and Advances of Magnetoelastic Sensors in Biomedical Engineering: A Review,” *Materials*, vol. 12, p. 1135, Apr. 2019, doi: 10.3390/ma12071135.
- [29] R. K. Kotnala and J. Shah, “Ferrite Materials,” 2015, pp. 291–379. doi: 10.1016/B978-0-444-63528-0.00004-8.
- [30] M. E. Lines and A. M. Glass, *Principles and applications of ferroelectrics and related materials*. Oxford university press, 2001.
- [31] D. Halliday, R. Resnick, and J. Walker, *Fundamentals of Physics: Extended*. Wiley-Blackwell, 2018.
- [32] P. A. Tipler, *Physics volume 1 : for scientists and engineers*. New York: Worth Publisher, 2001.
- [33] R. R. Astari, “Pengaruh Variasi Komposisi dan Proses Pendinginan Terhadap Karakteristik Magnet Barrium Ferrite,” *Surabaya: Institut Teknologi Sepuluh Nopember*, 2010.

- [34] D. Mardiansyah, “ANALISA SIFAT FERROMAGNETIK MATERIAL MENGGUNAKAN METODE MONTE CARLO,” 2013.
- [35] E. A. Setiadi *et al.*, “Sintesis Nanopartikel Cobalt Ferrite (CoFe_2O_4) dengan Metode Kopresipitasi dan Karakterisasi Sifat Kemagnetannya,” 2013.
- [36] D. Alcantara and L. Josephson, “Magnetic Nanoparticles for Application in Biomedical Sensing,” 2012, pp. 269–289. doi: 10.1016/B978-0-12-415769-9.00011-X.
- [37] T. Hasegawa *et al.*, “Determination of the crystal structure and photoluminescence properties of $\text{NaEu}_{1-x}\text{Gd}_x(\text{MoO}_4)_2$ phosphor synthesized by a water-assisted low-temperature synthesis technique,” *RSC Adv*, vol. 7, no. 40, pp. 25089–25094, 2017, doi: 10.1039/C7RA01832K.
- [38] M. WATANABE *et al.*, “Synthesis of Li_2SiO_3 using novel water-assisted solid state reaction method,” *Journal of the Ceramic Society of Japan*, vol. 125, pp. 472–475, Jun. 2017, doi: 10.2109/jcersj2.16325.
- [39] Ismunandar, *Padatan Oksida Logam : Struktur, Sintesis, dan Sifat-Sifatnya.. Bandung: Institut Teknologi Bandung.,* Printing 1. Kota Batu: Bandung ITB, 2006.
- [40] R. Khadka, B. V. Batlajery, A. M. Saeidi, S. Jansen, and J. Hage, “How do professionals perceive legacy systems and software modernization?,” in *Proceedings of the 36th International Conference on Software Engineering*, New York, NY, USA: ACM, May 2014, pp. 36–47. doi: 10.1145/2568225.2568318.
- [41] P. Khadka *et al.*, “Pharmaceutical Particle Technologies: An Approach to Improve Drug Solubility, Dissolution and Bioavailability,” *Asian J Pharm Sci*, vol. 9, Jun. 2014, doi: 10.1016/j.japs.2014.05.005.
- [42] Y. Li *et al.*, “Structure, ferromagnetism and microwave absorption properties of La substituted BiFeO_3 nanoparticles,” *Mater Lett*, vol. 111, pp. 130–133, 2013, doi: <https://doi.org/10.1016/j.matlet.2013.08.061>.
- [43] S. Febriani, T. Yolanda, V. Arianti, and R. Zainul, *A Review Solid Stated : Principles and Methode.* 2018. doi: 10.31227/osf.io/7us4x.
- [44] F. Sholihah and M. Zainuri, “Pengaruh Holding Time Kalsinasi Terhadap Sifat Kemagnetan Barium M-Hexaferrite ($\text{BaFe}_{12-x}\text{ZnxO}_{19}$) dengan Ion Doping Zn,” vol. 1, Sep. 2012.
- [45] Y. Waseda, E. Matsubara, and K. Shinoda, *X-Ray Diffraction Crystallography.* 2011. doi: 10.1007/978-3-642-16635-8.

- [46] R. E. Smallman and R. J. Bishop, “Chapter 5 - The characterization of materials,” in *Modern Physical Metallurgy and Materials Engineering (Sixth Edition)*, R. E. Smallman and R. J. Bishop, Eds., Oxford: Butterworth-Heinemann, 1999, pp. 125–167. doi: 10.1016/B978-075064564-5/50005-7.
- [47] M. Rafique, “Study of the Magnetoelectric Properties of Multiferroic Thin Films and Composites for Device Applications,” 2015. doi: 10.13140/RG.2.2.23827.94245.
- [48] S. Tebriani, “Analisis Vibrating Sample Magnetometer (VSM) Pada Hasil Elektrodeposisi Lapisan Tipis Magnetite Menggunakan Aruscontinue Direct Current,” *NATURAL SCIENCE JOURNAL*, vol. 5, pp. 722–730, Mar. 2019.
- [49] F. Caspers, “RF engineering basic concepts: the Smith chart,” Jan. 2012.
- [50] W. Perangin-Angin and S. Agmal, *PENGUKURAN KOEFISIEN REFLEKSI PADA SINYAL FREKUENSI RADIO*. 2017.
- [51] A. Jafari, S. Farjami Shayesteh, M. Salouti, and K. Boustani, “Effect of annealing temperature on magnetic phase transition in Fe₃O₄ nanoparticles,” *J Magn Magn Mater*, vol. 379, pp. 305–312, Apr. 2015, doi: 10.1016/j.jmmm.2014.12.050.
- [52] A. YONATHAN, “ANALISIS FRAKSI RASIO MOLAR BAHAN PENYUSUN PADUAN OKSIDA Nd₁+XBa₂-XCu₃O_{7-δ},” *JSPF*, vol. Vol. 7 No.1, pp. 39–45, Apr. 2011.
- [53] R. A. Nisa, “Sintering Material Zn_{0,9}Mg_{0,1}TiO₃ Variasi Penambahan V₂O₅ Dengan Metode Reaksi Padat,” Institute of Technology Sepuluh Nopember Surabaya, Surabaya, 2015.
- [54] Moh. S. Yafiedan and Widyaastuti, “Pengaruh Variasi Temperatur Sintering dan Waktu Tahan Sintering Terhadap Densitas dan Kekerasan pada MMC W-Cu Melalui Proses Metalurgi Serbuk,” *JURNAL TEKNIK POMITS*, vol. Vol. 3 No. 1, pp. 44–49, 2014.
- [55] S.-J. Kang, *Sintering: Densification, Grain Growth and Microstructure*. Butterworth-Heinemann, 2004.
- [56] J. Kruželák, R. Sýkora, R. Dosoudil, and I. Hudec, “Influence of peroxide curing systems on the performance of natural rubber-based magnetic composites,” *Compos Interfaces*, vol. 22, no. 6, pp. 473–488, Jul. 2015, doi: 10.1080/09276440.2015.1048658.
- [57] P. Neugebauer *et al.*, “Crystal Shape Modification via Cycles of Growth and Dissolution in a Tubular Crystallizer,” *Cryst Growth Des*, vol. 18, no. 8, pp. 4403–4415, Aug. 2018, doi: 10.1021/acs.cgd.8b00371.

- [58] A. Hussein, “Principles of Flow Assurance Solids Formation Mechanisms,” in *Essentials of Flow Assurance Solids in Oil and Gas Operations*, Elsevier, 2023, pp. 143–197. doi: 10.1016/B978-0-323-99118-6.00017-4.
- [59] B. D. Cullity and C. D. graham, *Introduction to Magnetic Materials*, 2nd Edition covers. 2009.

