

DAFTAR PUSTAKA

- Abdullah, M. 2009. *Pengantar Nanosains*. ITB Press. Bandung.
- Ahn, T., Kim, J.H., Yang, H.M., Lee, J.W. dan Kim, J.D. 2012. Formation Pathways of Magnetite Nanoparticles by Coprecipitation Method. *The Journal of Physical Chemistry C*. 116 : 6069-6076.
- Beiser, A. 1987. *Concepts of Modern Physics*. Edisi ke-4. Erlangga, Jakarta.
- Bhagyaraj, S.M., Oluwafemi, O.S., Kalarikkal, N. dan Thomas, S. 2018. *Synthesis of Inorganic Nanomaterials: Advances and Key Technology*. Elsevier Ltd. United Kingdom.
- Bochare, M.D. dan Degani, M.S. 2017. Polyethylene Glycol Nitrite (PEG-ONO) as a Novel Diazotizing Agent. *ACS Sustainable Chemistry & Engineering*. 5 : 3716-3720.
- Buschow, K.H.J. 2015. *Handbook of Magnetic Materials Volume 23 Chapter 3-4*. Elsevier B.V. Netherlands.
- Callister, W.D. dan Rethwisch, D.G. 2011. *Materials Science and Engineering*. John Wiley & Sons.
- Carranza-Celis, D., Cardona-Rodriguez, A., Narvaez, J., Moscoso-Londono, O., Muraca, D., Knobel, M., Ornelas-Soto, N., Reiber, A. dan Ramirez, J.G. 2019. Control of Multiferroic Properties in BiFeO₃ Nanoparticles. *Scientific Reports*. 9 (1) : 3182.
- Catalan, G. dan Scott, J.F. 2009. Physics and Applications of Bismuth Ferrite. *Advanced Materials*. 21 (24) : 2463-2485.
- Chakraborty, S. dan Pal, M. 2019. Highly Selective and Stable Acetone Sensor Based on Chemically Prepared Bismuth Ferrite Nanoparticles. *Journal of Alloys and Compounds*. 787 : 1204-1211.
- Chaturvedi, S., Shirolkar, M.M., Rajendra, R., Singh, S., Ballav, N. dan Kulkarni, S. 2014. Coercivity and Exchange Bias of Bismuth Ferrite Nanoparticles Isolated by Polymer Coating. *Journal of Applied Physics*. 115.
- Chen, G., Chen, J., Pei, W., Lu, Y., Zhang, Q., Zhang, Q. dan He, Y. 2019. Bismuth Ferrite Materials for Solar Cells: Current Status and Prospects. *Material*

Research Bulletin. 110 : 39-49.

- Chen, C., Tu, C., Chen, P., Schmidt, V.H., Xu, Z. dan Ting, Y. 2016. Spin-lattice Coupling Phase Transition and Phonon Anomalies in Bismuth Ferrite BiFeO_3 . *Journal of Alloys and Compounds.* 687 : 442-450.
- Chybczynska, K., Markiewicz, E., Blaszyk, M., Hilczer, B. dan Andrzejewski. 2016. Dielectric Response and Electric Conductivity of Ceramics Obtained from BiFeO_3 Synthesized by Microwave Hydrothermal Method. *Journal of Alloys and Compounds.* 671 : 493-501.
- Coey, J.M.D. 2010. *Magnetism and Magnetic Materials*. Cambridge University Press.
- Cohen, M.L. dan Louie, S.G. 2016. *Fundamentals of Condensed Matter Physics*. Cambridge University Press.
- Covaliu, C.I., Jitaru, I., Paraschiv, G., Vasile, E., Biris, S.S., Diamandescu, L., Ionita, V. dan Iovu, H. 2013 Core-shell Hybrid Nanomaterials Based on CoFe_2O_4 Particles Coated with PVP or PEG Biopolymers for Applications in Biomedicine. *Powder Technology.* 273 : 415-426.
- Cullity, B.D. dan Graham, C.D. 2009. *Introduction to Magnetic Materials*. Edisi ke-2. John Wiley & Sons. New Jersey.
- Dao, N.N., Luu, M.D., Pham, N.C., Doan, T.D., Nguyen, T.H.C., Nguyen, Q.B. dan Duong, T.L. 2016. Low-temperature Synthesis and Investigations on Photocatalytic Activity of Nanoparticles BiFeO_3 for Methylene Blue and Methylene Orange Degradation and Some Toxic Organic Compounds. *Advances in Natural Sciences: Nanoscience and Nanotechnology.* 7 : 045003.
- El-Desoky, M.M., Ayoua, M.S., Mostafa, M.M. dan Ahmed, M.A. 2016. Multiferroic Properties of Nanostructured Barium Doped Bismuth Ferrite. *Journal of Magnetism and Magnetic Materials.* 404 : 68-73.
- Ehi-Eromosele, C.O., Ita, B.I. dan Iweala, E.E.J. 2016. The Effect of Polyethylene Glycol (PEG) Coating on The Magneto-Structural Properties and Colloidal Stability of $\text{Co}_{0.8}\text{Mg}_{0.2}\text{Fe}_2\text{O}_4$ Nanoparticles for Potential Biomedical Applications. *Digest Journal of Nanomaterials and Biostructures.* 11 : 7-14.
- Gawande, M.B., Monga, Y., Zboril, R. dan Sharma, R.K. 2015. Silica-decorated

- Magnetic Nanocomposites for Catalytic Applications. *Coordination Chemistry Reviews*. 288 : 118-143.
- Ghasemi, A., Ekhlasi, S. dan Mousavinia, M. 2014. Effect of Cr and Al Substitution Cations on the Structural and Magnetic Properties of $\text{Ni}_{0.6}\text{Zn}_{0.4}\text{Fe}_{2-x}\text{Cr}_x/2\text{Al}_x/2\text{O}_4$ Nanoparticles Synthesized Using the Sol-Gel Auto-Combustion Method. *Journal of Magnetism and Magnetic Materials*. 354 : 136-145.
- Gubin, S.P. 2009. *Magnetic Nanoparticles*. Wiley-VCH Verlag GmbH & Co. KgaA. Weinheim.
- He, H.Y. 2012. Comparison Study on Magnetic Property of $\text{Co}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$ Powders by Template-Assisted Sol-Gel and Hydrothermal Methods. *Journal of Materials Science : Materials in Electronic*. 23 : 995-1000.
- Hofmann-Antenbrink, M., Von Rechenberg, B. dan Hofmann, H. 2009. *Superparamagnetic Nanoparticles for Biomedical Applications*. 119-149.
- Holscher, J., Petrecca, M., Albino, M., Garbus, P.G., Saura-Muzquiz, M., Sangregorio, C. dan Christensen, M. 2020. Magnetic Property Enhancement of Spinel Mn-Zn Ferrite through Atomic Structure Control. *Inorganic Chemistry*. 59 : 11184-11192.
- Hosokawa, M., Nogi, K., Naito, M. dan Yokoyama, T. 2007. *Nanoparticle Technology Handbook*. Elsevier. Netherland.
- Iorgu, A.I., Maxim, F., Matei, C., Ferreira, L.P., Ferreira, P., Cruz, M.M. dan Berger D. 2015. Fast Synthesis of Rare-earth (Pr^{3+} , Sm^{3+} , Eu^{3+} and Gd^{3+}) Doped Bismuth Ferrite Powders with Enhanced Magnetic Properties. *Journal of Alloys and Compounds*. 629 : 62-68.
- Kotnala, R.K. dan Shah, J. 2015. Chapter 4 - Ferrite Materials: Nano to Spintronics Regime. *Handbook of Magnetic Materials*. 23 : 291-379
- Lu, A.H., Salabas, E.L. dan Schuth, F. 2007. Magnetic Nanoparticles; Synthesis, Protection, Functionalization, and Application. *Angewandte Chemie International Edition*. 46 (8) : 1222-1244.
- Marcon, P. dan Ostanina, K. 2012. Overview of Methods for Magnetic Susceptibility Measurement. *PIERS Proceedings*. 27-30 Maret 2012, Kuala

Lumpur, Malaysia.

- Nikghalb, L.A., Singh, G., Singh, G. dan Kahkeshan, K.K. 2012. Solid Dispersion: Methods and Polymers to Increase the Solubility of Poorly Soluble Drugs. *Journal of Applied Pharmaceutical Science*. 2 (10) : 170-175.
- Pavia, D.L., Lampman, G.M., Kriz, G.S. dan Vyvyan, J.R. 2009. *Introduction to Spectroscopy*. Western Washington University. Washington.
- Pacakova, B., Kubickova, S., Reznickova, A., Niznansky, D. dan Vejpravova, J. 2017. Spinel Ferrite Nanoparticles: Correlation of Structure and Magnetism, in *Magnetic Spinel-Synthesis, Properties and Applications*. InTechOpen.
- Puri, R.K. dan Babbar, V.K. 1997. *Solid State Physics and Electronics*. S. Chand Publishing. New Delhi.
- Raghavan, V. 2011. *Materials Science and Engineering: A First Course*. Edisi ke-5. PHI Learning Private limited. New Delhi.
- Sagar, V.T., Rao, S.T. dan Naidu, C.B.K. 2021. AC-electrical Conductivity, Magnetic Susceptibility, Dielectric Modulus and Impedance Studies of Sol-Gel Processed Nano-NiMgZn Ferrites. *Materials Chemistry and Physics*. 258.
- Salunkhe, A.B., Khot, V.M., Thorat, N.D., Phadatare, M.R., Sathish, C.I., Dhawale, D.S. dan Pawar, S.H. 2013. Polyvinyl Alcohol Functionalized Cobalt Ferrite Nanoparticles For Biomedical Applications. *Applied Surface Science*. 264 : 598-604.
- Sangian, H., Mirzaee, O., Tajally, M. dan Lavasani, S.A.N.H. 2018. Monitoring the Bi/Fe Ratio at Different pH Values in BiFeO₃ Nanoparticles Derived by Normal and Reverse Chemical Co-precipitation: A Comparative Study on the Purity, Microstructure and Magnetic Properties. *Ceramics International*. 44 : 5109-5115.
- Setiadi, E.A., 2013, Fabrikasi dan Karakterisasi Struktur Kristal dan Sifat Kemagnetan Nanopartikel Cobalt Ferrite (CoFe₂O₄) Beserta Proses Fungsionalisasinya dengan PEG-4000. *Thesis*. Universitas Gadjah Mada, Yogyakarta.
- Shvartsman, V.V. dan Kleemann V. 2007. Large Bulk Polarization and Regular

- Domain Structure in Ceramic BiFeO₃. *Applied Physics Letters*. 90 : 172115.
- Spaldin, N.A. 2010. *Magnetic Materials: Fundamentals and Applications*. Cambridge University Press.
- Sulistiani, F.A., Suharyadi, E., Kato, T. dan Iwata, S. 2020 Effects of NaOH Concentration and Temperature on Microstructures and Magnetic Properties of Bismuth Ferrite (BiFeO₃) Nanoparticles Synthesized by Coprecipitation Method. *Key Engineering Materials*. 855 : 9-15.
- Sundararajan, M., Sailaja, V., Kennedy, L.J. dan Vijaya, J.J. 2017. Photocatalytic Degradation of Rhodamine B Under Visible Light Using Nanostructured Zinc Doped Cobalt Ferrite : Kinetics and Mechanism. *Ceramics International*. 43 (1) : 540-548.
- Tao, R., Li, X., Li, X., Liu, S., Shao, C. dan Liu, Y. 2020. Discrete Heterojunction Nanofibers of BiFeO₃/Bi₂WO₆: Novel Architecture for Effective Charge Separation and Enhanced Photocatalytic Performance. *Journal of Colloid and Interface Science*. 572 : 257-268.
- Tokunaga, K., Takahashi, Y., Tanaka, K. dan Kozai, N. 2021. Effective Removal of Iodate by Coprecipitation with Barite: Behavior and Mechanism. *Chemosphere*. 266 : 129104.
- Umut, E. 2013. Surface Modification of Nanoparticles Used in Biomedical Applications. *Modern Surface Engineering Treatments*. pp. 185-208.
- Wangsness, R.K. 1986. *Electromagnetic Fields*. John Wiley & Sons. New York.
- Yamamoto, K. 2018. Safety Assessment for the Nanoparticles. In *Nanoparticle Technology Handbook*.
- Zatsiupa, A.A., Bashkirov, L.A., Troyanchuk, I.O., Petrov, G.S., Galyas, A.I., Lobanovsky, L.S. dan Truhanov, S.V. 2014. Magnetization, Magnetic Susceptibility, Effective Magnetic Moment of Fe³⁺ Ions in Bi₂₅FeO₃₉ Ferrite. *Journal of Solid State Chemistry*. 212 : 147-150.
- Zhang, F., Su, Z., Wen, F. dan Li, F. 2008. Synthesis and Characterization of Polystyrene-grafted Magnetite Nanoparticles. *Colloid and Polymer Science*. 286 (6) : 837-841.
- Zhu, C., Chen, Z., Zhong, C. dan Lu, Z. 2017. Facile Synthesis of BiFeO₃

Nanosheets with Enhanced Visible-light Photocatalytic Activity. *Journal of Materials Science: Materials in Electronics*. 29 : 4817-4829.