

## DAFTAR PUSTAKA

- Cha, H. A., Kim, Y., & Jeon, J. (2016). Mechanism of  $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$  and  $\text{Bi}_{4.5}\text{Na}_{0.5}\text{Ti}_4\text{O}_{15}$  template synthesis during topochemical microcrystal conversion and texturing. *J Eur Ceram Soc.* 2016.10.106.
- Chalal, R., Adnan, A., and Reifsnyder, K. (2018). Molecular Dynamics for the Prediction of the Interfacial Shear Stress and Interface Dielectric Properties of Carbon Fiber Epoxy Composites. Thesis. Department of Mechanical & Aerospace Engineering. The University of Texas at Arlington. TX- 76019, U.S.A.
- Dahiya, R. S., and Valle, M. (2013). Fundamental of Piezoelectricity. *Springer Science+Business Media Dordrecht.* DOI 10.1007/978-94-007-0579-1.
- Delfia, U., Mahyudin, A., & Ahda, S. (2014). Pengaruh Penambahan  $\text{SrTiO}_3$  Pada Struktur Dan Sifat Listrik Bahan Piezoelektrik BNT-BT. *Jurnal Fisika Unand*, 3 (1), Januari 2014.
- Dunmin, L. & Kwok, K. W. (2010). Effect of Li-Substitution on Piezoelectric and Ferroelectric Properties of  $(\text{Bi}_{0.92}\text{Na}_{0.92-x}\text{Li}_x)_{0.5}\text{Ba}_{0.06}\text{Sr}_{0.02}\text{TiO}_3$  Lead-Free Ceramics. *Current Applied Physics*, 10 (2010):1196-1202.
- Ebrahimi, Farzad. 2013. *Piezoelectric Materials and Devices-Practice And Applications*. Rijeka, Croatia.
- Goldstein, Joseph., et al. (2007). Scanning Electron Microscopy and X-Ray Microanalysis: Third Edition. USA. Springer.
- Gu, X., Yue, J., Li, L., Xue, H., Yang, J., and Zhao, X. (2008). General Synthesis of  $\text{MnO}_x$  ( $\text{MnO}_2$ ,  $\text{Mn}_2\text{O}_3$ ,  $\text{Mn}_3\text{O}_4$ ,  $\text{MnO}$ ) Hierarchical Microspheres as Lithium-ion Battery Anodes. China University of Petroleum. China
- Haertling, G. (1999). Ferroelectric Ceramic: History and Technology. *J Am Ceram Soc.*, 82.
- Halliday, D., dan Resnick, R. (1984). *Fisika Jilid 1*. Erlangga : Jakarta.
- Havancsak, Kalory. (2016). High-Resolution Scanning Electron Microscopy <http://www.technoorg.hu/news-and-events/articles/high-resolution-scanning-electron-microscopy-1/diunduh> pada tanggal 20 November 2019.

- He, X., Lu, M., Li, Y., Wang, Z., Li, Z. Lu., and L. Lu.(2020). *J. Mater. Chem. C*, DOI: 10.1039/C9TC04864B
- Jasron, Jahirwan Ut. (2014). Analisa Laju Korosi Logam Tak Sejenis Pada Berbagai Jenis Logam. *Lontar Jurnal Teknik Mesin Undana*, Vol. 01, No. 02.
- Jiang, Z., Wang, P., Xing, J., Jiang, X., & Zhao, J. (2018). Screening and Design of Novel 2D Ferromagnetic Material with High Curie Temperature above Room Temperature. *ACS Apply Matter Interfaces*, 10(45): 39032-39039.
- Juansah, J., Budiastra, I., Dahlan, K., & Seminar, K. (2012). The Prospect of Electrical Impedance Spectroscopy as Nondestructive Evaluation of Citrus Fruits Acidity. *IJTAE*, 2, 58–64.
- Kong L.B., Li T., Hng H.H., Boey F., Zhang T., Li S. (2014) Waste Mechanical Energy Harvesting (I): Piezoelectric Effect. In: Waste Energy Harvesting. Lecture Notes in Energy, vol 24. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-54634-1\\_2](https://doi.org/10.1007/978-3-642-54634-1_2)
- Krisdianto, A., N. (2011). Studi karakterisasi energi yang dihasilkan mekanisme vibration energi harvesting dengan metode piezoelektrik untuk pembebanan frontal dan lateral. Skripsi. Institut Teknologi Sepuluh November : Surabaya.
- Lvovich, V., F. (2012). *Impedance spectroscopy with application to electrochemical and dielectric phenomena*. Wiley : USA.
- Maeda, T., Bornmann, P., Hemsel, T., & Morita, T. (2012). Piezoelectric Application of Hydrothermal Lead-Free ( $K_{0.48}Na_{0.52}$ )  $NbO_3$  Ceramics. *Ultrasonics IEEE Symposium*, 10. 1109.
- Moradkhani, D., Mahdieh, M., and Eltefat, A. (2012). Nanostructured  $MnO_2$  Synthesized Via Methane Gas Reduction Of Manganese Ore And Hydrothermal Precipitation Methods. *Transaction Of Nonferrous Metals Society Of China*, 134-139.
- Nurhakim, Lukman. (2014). Karakteristik Nanogenerator Piezoelektrik  $ZnO$  Doping  $Co_3O_4$ .
- Orazem, Mark E., dan Tribollet, Bernard. (2017). *Electrochemical Impedance Spectroscopy*. John Wiley & Sons. USA.

- Parija, B., Rout, S., K. Cavalcante, L., S. (2014). Structure, Microstructure, and Dielectric Properties of (100-x)BNT-xST Composite Ceramics. *Appl Phys A.* DOI 10.1007.
- Pattipaka, S., James, A. R., & Dobbidi, P. (2018). Enhanced Dielectric and Piezoelectric Properties of BNT-KNNG Piezoelectric Ceramics. *Journal of Alloys and Compounds.* 765: 1195-1208.
- Prodromakis, T., and Papavassiliou, C. (2009). Engineering the Maxwell-Wagner polarization effect. *Applied Surface Science* 255. doi:10.1016/j.apsusc. 2009.03.030
- Ramadhan, M.I., Widanarto, W., & Sunardi. (2018). Pengaruh Sintering terhadap Struktur dan Sifat Magnetik  $\text{Ni}^{2+}$ -Barium Ferit sebagai Penyerap Gelombang Mikro. *Jurnal Teras Fisika*, 1 (1).
- Rao, N., Datta, R.; Chandrashekaran, S.S., Mishra, D. K., Sathe, V., Senyshyn, A., Ranjan, R. (2013). Local structural disorder and its influence on the average global structure and polar properties in  $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ . *Phys. Rev. B.* 2013, 88, 224103.
- Romahdhona, T., Azam, M., dan Sofyan, K. (2005). Analysis Polarization Laser Ray at Sugar Sand Solution and Salt of England ( $\text{Mg}_2\text{SO}_4$ ) Solution. Undergraduate thesis, Diponegoro University. Semarang.
- Sarwono, E. (2004). ‘Perhitungan Polarisasi Spontan dan Momen Quadrupol Potensial Listrik Bahan PIZT ( $\text{PbIn}_x\text{Zr}_{1-x}\text{Ti}_{1-y}\text{O}_{3-\frac{x}{2}}$ )’. Tesis. Universitas Indonesia. Depok.
- Scientific Equipment and Services. (2010). *User's Manual; Study of Dielectric Constant Model: DEC-01.* Rorkee: UAIndia.
- Setyawan, H. (2012). ‘Pengaruh Doping Fe terhadap Perubahan Nilai Magnetisasi dan Rasio Magnetisasi pada Sampel  $\text{La}_{0.67}\text{Sr}_{0.33}\text{Mn}_{1-x}\text{Fe}_x\text{O}_3$ ( $x=0,0,05; 0,10; 0,15; 0,50$ )’. Tesis. Universitas Indonesia. Depok.
- Sobirin, M. (2016). ‘Pengaruh Lama Pergerusan terhadap Konstanta Dielektrik, Kekerasan, dan Mikrostruktur Keramik Oksida  $\text{SiO}_2\text{-MgO}$ ’. Skripsi. Universitas Negeri Semarang. Semarang.
- Sukesha. (2014). Variation of Piezoelectric Coefficient and Dielectric Constant with Electric Field a Temperature: A Review. *Proceedings of RAECS.*

- Thakur, S., Pandey, O.P., Singh, H. (2013). Structural and dielectric properties of  $\text{Bi}_{1-x}\text{Sr}_x\text{MnO}_3$  ( $0.40 \leq x \leq 0.55$ ). *Ceramic International*. 2013.01.035
- Thao, N. T., Alamdari, H., & Kaliaguine, S. (2008). Charaterization and Reactivity of Nano scale  $\text{La}(\text{Co,Cu})\text{O}_3$  Perovskite Catalyst Precusor for CO Hydrogenation. *Journal of Solid State Chemistry*, 181 (8):2006-2019.
- Tim Penyusun Pedoman. (2012). *General Purpose, Portable Impedance / LCR meter*. Geneva. Tegam Way.
- Triwahyuni, D. (2008). ‘Sintesis dan Karakterisasi Bahan Piezoelektrik  $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$  (BNT) dengan Metoda Molten Salt’. Tesis. Universitas Andalas. Padang.
- Wang, D. Y., Chan, N. Y., Choy, S., Tian, H. Y., Chan, H. L. W., & Li, S. (2010). Enhanced Ferroelectric and Piezoelectric Properties in Doped Lead-Free  $(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.94}\text{Ba}_{0.06}\text{TiO}_3$  Thin Films. *Applied Physics Letters*, 97 (21): pp. 212901-1-212901-3.
- Wangfeng, B., Wang, L., Zheng, P., & Wen, F. (2018). Pairing High Piezoelectric Properties and Enhanced Thermal Stability in Grain-Oriented BNT-Based Lead-Free Piezoceramics. *Ceramics International*. 44:11402-11409.
- Werner, K. (2009). *Piezoelectric Properties and Phase Transition Temperatures of The Solid Solution of  $(1-x)(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3-x\text{SrTiO}_3$* . Graz University of Technology, Christian Doppler Laboratory for Advance Ferroic Oxides, Stremayrgasse 16, 8010 Graz. Austria.
- Xu, Q., Chen, X., Chen, W., Chen, S., Kim, B., & Lee, J. (2005). Synthesis, Ferroelectric, and Piezoelectric Properties of Some  $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3$ . *Mater. Lett.* 2005. 59.2437–2441.
- Yao, Z., Xu, C., Hao, H., Xu, Q., Hu, W., Cao, M., & Liu, H. Manganese-Doped  $\text{BiFeO}_3-\text{BaTiO}_3$  High-Temperature Piezoelectric Ceramics: Phase Structures and Defect Mechanism. *Int. J. Appl. Ceram. Technol.* 2016. 13[3]. 549-553.
- Yang, Y., Lin, C. S., Chen, J. F., Hu, L., & Cheng, W. D. (2014). Magnetoelectric Effect at The Interfces Between Nonmagnetic Perovskites: AbInitio Prediction. *EPL (Europhysics Letters)*, 105 (2).

- Zamiri, R., Ahangar, H., A., Kaushal, A., Zakaria, A., Zamiri, G., and Tobaldi, D. (2015). Dielectrical Properties of CeO<sub>2</sub> Nanoparticles at Different Temperatures. PLoS ONE 10(4):e0122989. doi:10.1371/journal.pone.0122989
- Zeffry, R. (2015). 'Pengaruh Temperatur Kalsinasi terhadap Sifat Fisis Tembaga Oksida dari Daerah Pintu Kayu, Kec.Koto Parik Gadang Diateh, Kabupaten Solok Selatan'. Skripsi. Universitas Negeri Padang. Padang.
- Zhang, S., Xia, R., and Shrout, T., R. (2017). Lead-free piezoelectric ceramics vs. PZT?. Springer Science + Business Media, LLC 2007.

