

DAFTAR PUSTAKA

- (1) Bochenek, D.; Surowiak, Z. *Multiferroic Materials for Sensors, Transducers and Memory Devices. Arch. Acoust.* **2008**, *33* (2), 243–260. **2014**, No. January 2008.
- (2) Baldwin, M. P.; Lenton, T. M. Solving the Climate Crisis: Lessons from Ozone Depletion and COVID-19. *Glob. Sustain.* **2020**, *3*, 1–6. <https://doi.org/10.1017/sus.2020.25>.
- (3) Zulhadjri; Wendari, T. P.; Ramadhani, R.; Putri, Y. E.; *Imelda. La³⁺ Substitution Induced Structural Transformation in CaBi₄Ti₄O₁₅ Aurivillius Phases: Synthesis, Morphology, Dielectric and Optical Properties. Ceram. Int.* **2021**, *47* (16), 23549–23557. <https://doi.org/10.1016/j.ceramint.2021.05.072>.
- (4) Jie, S.; Jiang, X.; Chen, C.; Huang, X.; Nie, X.; Wang, H. *Structural and Electrical Properties of (LiCe) Co-Doped (NaBi)_{0.5-x}(LiCe)_xBi₂Nb_{1.99(Co_{1/3}W_{2/3})0.01}O₉ Piezoelectric Ceramics. Ceram. Int.* **2022**, *48* (9), 13032–13040. <https://doi.org/10.1016/j.ceramint.2022.01.177>.
- (5) Lu, C. H.; Wu, C. H. *Preparation, Sintering, and Ferroelectric Properties of Layer-Structured Strontium Bismuth Titanium Oxide Ceramics. J. Eur. Ceram. Soc.* **2002**, *22* (5), 707–714. [https://doi.org/10.1016/S0955-2219\(01\)00377-6](https://doi.org/10.1016/S0955-2219(01)00377-6).
- (6) Wendari, T. P.; Zulhadjri; Rizki, A.; Insani, A.; Emriadi; Arief, S. *Coexistence of Relaxor Ferroelectricity and Magnetism in Multi-Element Substituted Aurivillius Phases Pb_{1-2x}Bi_{1.5+2x}Nd_{0.5}Nb_{2-x}Mn_xO₉. J. Solid State Chem.* **2023**, *324* (May), 124083. <https://doi.org/10.1016/j.jssc.2023.124083>.
- (7) Banwal, A.; Bokolia, R. *Efficient Tunable Temperature Sensitivity in Thermally Coupled Levels of Er³⁺/Yb³⁺ Co-Doped BaBi₂Nb₂O₉ Ferroelectric Ceramic. J. Lumin.* **2023**, *263* (July), 120071. <https://doi.org/10.1016/j.jlumin.2023.120071>.
- (8) Adak, M. K.; Mondal, D.; Samanta, R.; Chakraborty, B.; Dhak, D. *Fatigue Free Relaxor Ferroelectric and Electrocatalytic Hydrogen Evolution of Yttrium Substituted BaBi₂Nb₂O₉ Layered Structured Nanoceramics for Energy Storage Application. Ceram. Int.* **2022**, *49* (1), 1020–1029. <https://doi.org/10.1016/j.ceramint.2022.09.077>.
- (9) Sun, L.; Feng, C.; Chen, L.; Huang, S. *Dielectric and Piezoelectric Properties of SrBi₂Nb₂O₉. 2007*, *3881*, 3875–3881. <https://doi.org/10.1111/j.1551-2916.2007.02064.x>.
- (10) Chen, X.; Lu, Z.; Huang, F.; Min, J.; Li, J.; Xiao, J.; Yang, F.; Zeng, X. *Molten Salt Synthesis and Magnetic Anisotropy of Multiferroic Bi₄NdTi₃Fe_{0.7}Ni_{0.3}O₁₅ Ceramics. J. Alloys Compd.* **2017**, *693*, 448–453. <https://doi.org/10.1016/j.jallcom.2016.09.214>.
- (11) Su, Y.; Wang, Y. *Synthesis and Dielectric Properties of Na_{0.5}Bi_{0.5}Cu₃Ti₄O₁₂ Ceramic by Molten Salt Method. Appl. Phys. A Mater. Sci. Process.* **2016**, *122* (3), 1–7. <https://doi.org/10.1007/s00339-016-9838-8>.
- (12) Zeng, X.; Cao, F.; Peng, Z.; Xing, X. *Crystal Structure and Electrical Properties of (Li, Ce, Nd)-Multidoped CaBi₂Nb₂O₉ High Temperature Ceramics. Ceram. Int.* **2018**, *44* (3), 3069–3076. <https://doi.org/10.1016/j.ceramint.2017.11.069>.
- (13) Wendari, T. P.; Arief, S.; Mufti, N.; Suendo, V.; Prasetyo, A.; Ismunandar; Baas, J.; Blake, G. R.; Zulhadjri. *Synthesis, Structural Analysis and Dielectric Properties of the Double-Layer Aurivillius Compound Pb_{1-2x}Bi_{1.5+2x}La_{0.5}Nb_{2-x}Mn_xO₉. Ceram. Int.* **2019**, *45* (14), 17276–17282. <https://doi.org/10.1016/j.ceramint.2019.05.285>.
- (14) Borg, S.; Svensson, G.; Bovin, J. O. *Structure Study of Bi_{2.5}Na_{0.5}Ta₂O₉ and Bi_{2.5}Na_{m-1.5}Nb_mO_{3m+3} (M=2-4) by Neutron Powder Diffraction and Electron Microscopy. J. Solid State Chem.* **2002**, *167* (1), 86–96. <https://doi.org/10.1006/jssc.2002.9623>.

- (15) Axelsson, A. K.; Le Goupil, F.; Valant, M.; Alford, N. M. N. *Optimisation of SrBi₂(Nb,Ta)₂O₉ Aurivillius Phase for Lead-Free Electrocaloric Cooling*. *J. Eur. Ceram. Soc.* **2018**, *38* (16), 5354–5358. <https://doi.org/10.1016/j.jeurceramsoc.2018.07.044>.
- (16) Fukunaga, M.; Takesada, M.; Onodera, A. *Ferroelectricity in Layered Perovskites as a Model of Ultra-Thin Films*. *World J. Condens. Matter Phys.* **2016**, *06* (03), 224–243. <https://doi.org/10.4236/wjcmp.2016.63022>.
- (17) Kannan, B. R.; Venkataraman, B. H. *Effect of Rare Earth Ion Doping on the Structural, Microstructural and Diffused Phase Transition Characteristics of BaBi₂Nb₂O₉ Relaxor Ferroelectrics*. *Ceram. Int.* **2014**, *40* (PB), 16365–16369. <https://doi.org/10.1016/j.ceramint.2014.07.076>.
- (18) Verma, M.; Sreenivas, K.; Gupta, V. *Influence of La Doping on Structural and Dielectric Properties of SrBi₂Nb₂O₉ Ceramics*. *J. Appl. Phys.* **2009**, *105* (2), 0–6. <https://doi.org/10.1063/1.3068368>.
- (19) Chakrabarti, A.; Molla, A. R. *Zirconia Assisted Crystallization of Ferroelectric BaBi₂Nb₂O₉ Based Glass-Ceramics: Kinetics, Optical and Dielectrical Properties*. *J. Alloys Compd.* **2020**, *844*, 156181. <https://doi.org/10.1016/j.jallcom.2020.156181>.
- (20) Das, S.; Swain, S.; Choudhary, R. N. P. *Studies of Structural, Dielectric and Impedance Characteristics of Gd Modified Bi₄Ti₃O₁₂ Aurivillius Ceramic*. *J. Solid State Chem.* **2023**, *325* (May), 124121. <https://doi.org/10.1016/j.jssc.2023.124121>.
- (21) Kumar, N. S. K.; Jayakrishnan, A. R.; Silva, J. P. B.; Sekhar, K. C. *Effect of MgO Doping on Energy Storage and Electrocaloric Properties of Ferroelectric 0.6Ba(Zr_{0.2}Ti_{0.8})O₃-0.4(Ba_{0.7}Ca_{0.3})TiO₃ Ceramics*. *Mater. Today Commun.* **2023**, *35* (January), 105754. <https://doi.org/10.1016/j.mtcomm.2023.105754>.
- (22) Gao, W.; Zhu, Y.; Wang, Y.; Yuan, G.; Liu, J. M. *A Review of Flexible Perovskite Oxide Ferroelectric Films and Their Application*. *J. Mater.* **2020**, *6* (1), 1–16. <https://doi.org/10.1016/j.jmat.2019.11.001>.
- (23) Samara, G. A. *The Relaxational Properties of Compositionally Disordered ABO₃ Perovskites*; 2003; Vol. 15. <http://iopscience.iop.org/0953-8984/15/9/202>.
- (24) Lian, Y.; Wang, C.; Meng, Y.; Dong, J.; Zhang, J.; Bai, G.; Gao, J. *Designing Nd-Doped Bismuth Selenide Nanosheets with Boosted Photothermal Conversion for Imaging Guided Cancer Therapy*. *Mater. Des.* **2023**, *227* (February), 111801. <https://doi.org/10.1016/j.matdes.2023.111801>.
- (25) Diao, C. L.; Zheng, H. W.; Gu, Y. Z.; Zhang, W. F.; Fang, L. *Structural and Electrical Properties of Four-Layers Aurivillius Phase BaBi_{3.5}Nd_{0.5}Ti₄O₁₅ Ceramics*. *Ceram. Int.* **2014**, *40* (4), 5765–5769. <https://doi.org/10.1016/j.ceramint.2013.11.015>.
- (26) Rehman, F.; Jin, H. B.; Wang, L.; Tanver, A.; Su, D. Z.; Li, J. B. *Effect of Nd³⁺ Substitution for Bi³⁺ on the Dielectric Properties and Conduction Behavior of Aurivillius NdBi₄Ti₃FeO₁₅ Ceramics*. *RSC Adv.* **2016**, *6* (25), 21254–21260. <https://doi.org/10.1039/c5ra27821j>.
- (27) Azlan, U. A. A.; Noor, A. F. M. *A Study on Structural Stability of Bismuth Titanate with Lanthanum Doping for Improved Ferroelectric Properties*. *Bull. Mater. Sci.* **2017**, *40* (3), 493–498. <https://doi.org/10.1007/s12034-017-1387-z>.
- (28) Chen, X.; Lu, Z.; Huang, F.; Min, J.; Li, J.; Xiao, J.; Yang, F.; Zeng, X. *Molten Salt Synthesis and Magnetic Anisotropy of Multiferroic Bi₄NdTi₃Fe_{0.7}Ni_{0.3}O₁₅ Ceramics*. *J. Alloys Compd.* **2017**, *693*, 448–453. <https://doi.org/10.1016/j.jallcom.2016.09.214>.
- (29) Kimura, T. *Molten Salt Synthesis of Ceramic Powders*. *Adv. Ceram. - Synth. Charact. Process. Specif. Appl.* **2011**. <https://doi.org/10.5772/20472>.

- (30) Bunaciu, A. A.; Udriștioiu, E. gabriela; Aboul-Enein, H. Y. *X-Ray Diffraction: Instrumentation and Applications. Crit. Rev. Anal. Chem.* **2015**, 45 (4), 289–299. <https://doi.org/10.1080/10408347.2014.949616>.
- (31) Toby, B. H. R Factors in Rietveld Analysis: *How Good Is Good Enough?* . *Powder Diffr.* **2006**, 21 (1), 67–70. <https://doi.org/10.1154/1.2179804>.
- (32) Kennedy, B. J.; Zhou, Q.; Ismunandar; Kubota, Y.; Kato, K. *Cation Disorder and Phase Transitions in the Four-Layer Ferroelectric Aurivillius Phases $ABi_4Ti_4O_{15}$ ($A=Ca, Sr, Ba, Pb$)*. *J. Solid State Chem.* **2008**, 181 (6), 1377–1386. <https://doi.org/10.1016/j.jssc.2008.02.015>.
- (33) Zulhadjri; Wendari, T. P.; Mawardi, F.; Putri, Y. E.; Septiani, U.; Imelda. *Effect of Gd^{3+}/Ti^{4+} Heterovalent Substitution on the Crystal Structure, Morphology, Optical Properties, and Phase Transition Behavior of Bismuth Layer-Structured $SrBi_2Nb_2O_9$* . *J. Solid State Chem.* **2023**, 319 (November 2022), 123774. <https://doi.org/10.1016/j.jssc.2022.123774>.
- (34) Omidi, M.; Fatehinya, A.; Farahani, M.; Akbari, Z.; Shahmoradi, S.; Yazdian, F.; Tahriri, M.; Moharamzadeh, K.; Tayebi, L.; Vashaee, D. *Characterization of Biomaterials*; Elsevier Ltd, 2017. <https://doi.org/10.1016/B978-0-08-100961-1.00007-4>.
- (35) Peng, Z.; Zeng, X.; Cao, F.; Yang, X. *Microstructure and Impedance Properties of La, Ce Multi-Rare Earth Ions Doped $Na_{0.5}Bi_{2.5}Nb_2O_9$ Aurivillius Type Ceramics*. *J. Alloys Compd.* **2017**, 695, 626–631. <https://doi.org/10.1016/j.jallcom.2016.11.127>.
- (36) Adamczyk-Habrajska, M.; Pilch, M.; Wodecka-Duś, B.; Radoszewska, D. *The Influence of in Situ Thermal Treatment on Electric Properties of $BaBi_2Nb_2O_9$ Ceramics*. *J. Alloys Compd.* **2019**, 808. <https://doi.org/10.1016/j.jallcom.2019.151651>.
- (37) Jubu, P. R.; Obaseki, O. S.; Nathan-Abutu, A.; Yam, F. K.; Yusof, Y.; Ochang, M. B. *Dispensability of the Conventional Tauc's Plot for Accurate Bandgap Determination from UV–Vis Optical Diffuse Reflectance Data*. *Results Opt.* **2022**, 9 (July), 100273. <https://doi.org/10.1016/j.rio.2022.100273>.
- (38) Jumardin; Maddu, A.; Santoso, K.; Isnaeni. Karakteristik Sifat Optik Nanopartikel Karbon (Carbon Dots) Dengan Metode Uv-Vis Drs (Ultraviolet-Visible Diffuse Reflectance Spectroscopy). *JFT J. Fis. dan Ter.* **2022**, 9 (1), 1–15. <https://doi.org/10.24252/jft.v9i1.28815>.
- (39) Shigyo, T.; Itoh, H.; Takahashi, J. *Low-Temperature Fabrication of $BaBi_2Nb_2O_9$ Ceramics by Reaction Controlled Sintering*. *J. Mater. Sci. Mater. Electron.* **2010**, 21 (3), 302–308. <https://doi.org/10.1007/s10854-009-9910-7>.
- (40) Cao, Z. P.; Wang, C. M.; Zhao, T. L.; Yu, S. L.; Wu, H. Z.; Wang, Y. M.; Wang, Q.; Liang, Y.; Wei, Y. N.; Zhang, Y.; Liu, Y.; Tang, X. S. *Piezoelectric Properties and Thermal Stabilities of Strontium Bismuth Titanate ($SrBi_4Ti_4O_{15}$)*. *Ceram. Int.* **2015**, 41 (10), 13974–13982. <https://doi.org/10.1016/j.ceramint.2015.07.008>.
- (41) Sridarane, R.; Subramanian, S.; Janani, N.; Murugan, R. *Investigation on Microstructure, Dielectric and Impedance Properties of $Sr_{1-x}Bi_{2+(2/3)x}(V_xTa_{1-x})_2O_9$ [$x = 0, 0.1$ and 0.2] Ceramics*. *J. Alloys Compd.* **2010**, 492 (1–2), 642–648. <https://doi.org/10.1016/j.jallcom.2009.11.201>.
- (42) Roy, M.; Bala, I.; Barbar, S. K.; Jangid, S.; Dave, P. *Synthesis, Structural and Electrical Properties of La and Nb Modified $Bi_4Ti_3O_{12}$ Ferroelectric Ceramics*. *J. Phys. Chem. Solids* **2011**, 72 (11), 1347–1353. <https://doi.org/10.1016/j.jpcs.2011.08.007>.
- (43) Khokhar, A.; Goyal, P. K.; Thakur, O. P.; Shukla, A. K.; Sreenivas, K. *Influence of Lanthanum Distribution on Dielectric and Ferroelectric Properties of $BaBi_{4-x}La_xTi_4O_{15}$ Ceramics*. *Mater. Chem. Phys.* **2015**, 152, 13–25.

- [https://doi.org/10.1016/j.matchemphys.2014.11.074.](https://doi.org/10.1016/j.matchemphys.2014.11.074)
- (44) Reddyprakash, M.; Rout, S. K.; Satapathy, A.; Sinha, T. P.; Sariful, S. M. *Dielectric and Ferroelectric Properties of Samarium Substituted BaBi₄Ti₄O₁₅ Aurivillius Oxides. Ceram. Int.* **2016**, *42* (7), 8798–8803. <https://doi.org/10.1016/j.ceramint.2016.02.122>.
- (45) Nayak, P.; Mitra, K.; Panigrahi, S. *Electrical and Optical Properties of Four-Layered Perovskite Ferroelectric ABi₄Ti₄O₁₅ (with A = Sr, Ba, Ca). Mater. Lett.* **2018**, *216*, 54–57. <https://doi.org/10.1016/j.matlet.2017.12.105>.
- (46) Wendari, T. P.; Arief, S.; Mufti, N.; Insani, A.; Baas, J.; Blake, G. R.; Zulhadjri. *Structural and Multiferroic Properties in Double-Layer Aurivillius Phase Pb_{0.4}Bi_{2.1}La_{0.5}Nb_{1.7}Mn_{0.3}O₉ Prepared by Molten Salt Method. J. Alloys Compd.* **2020**, *820*, 153145. <https://doi.org/10.1016/j.jallcom.2019.153145>.
- (47) Prasanna, R.; Gold-Parker, A.; Leijtens, T.; Conings, B.; Babayigit, A.; Boyen, H. G.; Toney, M. F.; McGehee, M. D. *Band Gap Tuning via Lattice Contraction and Octahedral Tilting in Perovskite Materials for Photovoltaics. J. Am. Chem. Soc.* **2017**, *139* (32), 11117–11124. <https://doi.org/10.1021/jacs.7b04981>.
- (48) Alemi, A. A.; Kashfi, R.; Shabani, B. *Preparation and Characterization of Novel Ln (Gd³⁺, Ho³⁺ and Yb³⁺)-Doped Bi₂MoO₆ with Aurivillius Layered Structures and Photocatalytic Activities under Visible Light Irradiation. J. Mol. Catal. A Chem.* **2014**, *392*, 290–298. <https://doi.org/10.1016/j.molcata.2014.05.029>.
- (49) Li, S.; Cao, W.; Wang, C.; Qiu, H. *Band Gap Engineering of Ba₅Nb₄O₁₅ for Efficient Water Splitting under Visible Light. J. Alloys Compd.* **2015**, *644*, 757–762. <https://doi.org/10.1016/j.jallcom.2015.05.052>.

