

DAFTAR PUSTAKA

1. Surowiak, Z.; Bochenek, D. Multiferroic Materials for Sensors, Transducers and Memory Devices (Review Article). *Arch. Acoust.* 2008, 33 (2), 243–260.
2. 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 $Pb_{1-2x}Bi_{1.5+2x}La_{0.5}Nb_{2-x}Mn_xO_9$. *Ceram. Int.* 2019, 45 (14), 17276–17282.
3. Axelsson, A. K.; Le Goupl, F.; Valant, M.; Alford, N. M. N. Electrocaloric Effect in Lead-Free Aurivillius Relaxor Ferroelectric Ceramics. *Acta Mater.* 2017, 124, 120–126.
4. Surta, T. W.; Manjón-Sanz, A.; Qian, E. K.; Mansergh, R. H.; Tran, T. T.; Fullmer, L. B.; Dolgos, M. R. Dielectric and Ferroelectric Properties in Highly Substituted $Bi_2Sr(A)TiNb_2O_{12}$ ($A = Ca^{2+}, Sr^{2+}, Ba^{2+}$) Aurivillius Phases. *Chem. Mater.* 2017, 29 (18), 7774–7784.
5. Ismunandar; Hunter, B. A.; Kennedy, B. J. Cation Disorder in the Ferroelectric Aurivillius Phase $PbBi_2Nb_2O_9$: An Anomalous Dispersion X-Ray Diffraction Study. *Solid State Ionics* 1998, 112 (3–4), 281–289.
6. Blake, S. M.; Falconer, M. J.; McCready, M.; Lightfoot, P. Cation Disorder in Ferroelectric Aurivillius Phases of the Type $Bi_2ANb_2O_9$ ($A = Ba, Sr, Ca$). *J. Mater. Chem.* 1997, 7 (8), 1609–1613.
7. Fang, W.; Zhao, H.; Jia, T.; Fu, Q.; Xu, C.; Tao, H.; Weng, J.; Wang, S.; Ma, Z. Effects of La and Ni Doping on Ferroelectric and Photocatalytic Properties of Aurivillius $Bi_7Ti_3Fe_3O_{21}$. *Solid. State. Electron.* 2021, 186 (June), 108170.
8. Srinivas, A.; Kim, D. W.; Hong, K. S.; Suryanarayana, S. V. Study of Magnetic and Magnetoelectric Measurements in Bismuth Iron Titanate Ceramic - $Bi_8Fe_4Ti_3O_{24}$. *Mater. Res. Bull.* 2004.
9. Mazurek, M.; Jartych, E.; Lisińska-Czekaj, A.; Czekaj, D.; Oleszak, D. Structure and Hyperfine Interactions of $Bi_9Ti_3Fe_5O_{27}$ Multiferroic Ceramic Prepared by Sintering and Mechanical Alloying Methods. In *Journal of Non-Crystalline Solids*; 2010.
10. Shi, Y.; Pu, Y.; Li, J.; Shi, R.; Wang, W.; Zhang, Q.; Guo, L. Structure, Dielectric and Multiferroic Properties of Three-Layered Aurivillius $SrBi_3Nb_2FeO_{12}$ Ceramics. *Ceram. Int.* 2019, 45 (7), 9283–9287.
11. Adak, M. K.; Mukherjee, A.; Chowdhury, A.; Khatun, J.; Ghorai, U. K.; Dhak, D. Electrical and Energy Storage Properties of Nickel Substituted Barium Bismuth Niobate Nano-Ceramics Prepared by Chemical Route. *J. Mater. Sci. Mater. Electron.* 2018, 29 (18), 15847–15858.
12. Kumar, R.; Singh, S. Enhanced Electrocaloric Response and High Energy-Storage Properties in Lead-Free (1-x) $(K_{0.5}Na_{0.5})NbO_3$ -x $SrZrO_3$ Nanocrystalline Ceramics. *J. Alloys Compd.* 2018, 764, 289–294.
13. Sebald, G.; Seveyrat, L.; Guyomar, D.; Lebrun, L.; Guiffard, B.; Pruvost, S. Electrocaloric and Pyroelectric Properties of $0.75Pb(Mg_{1/3}Nb_{2/3})O_3-0.25PbTiO_3$ Single Crystals. *J. Appl. Phys.* 2006, 100 (12), 0–6.
14. Sun, L.; Feng, C.; Chen, L.; Huang, S. Dielectric Relaxation in Layer-Structured $SrBi_2-xNd_xNb_2O_9$ Ceramics ($x = 0, 0.05, 0.2, 0.35$). *J. Am. Ceram. Soc.* 2007, 90 (1), 322–326.
15. Zhao, H.; Wang, H.; Cheng, Z.; Fu, Q.; Tao, H.; Ma, Z.; Jia, T.; Kimura, H.; Li, H. Electric and Magnetic Properties of Aurivillius-Phase Compounds: $Bi_5Ti_3XO_{15}$ ($X = Cu, Mn, Ni, V$). *Ceram. Int.* 2018, 44 (11), 13226–13231.

16. Mojumdar, P.; Shaily, R.; Bokolia, R. Structural Properties of Strontium Bismuth Niobate ($\text{SrBi}_2\text{Nb}_2\text{O}_9$) Ferroelectric Ceramics. *Mater. Today Proc.* 2021, 47, 4661–4665.
17. Kannan, B. R.; Venkataraman, B. H. Influence of Samarium Doping on Structural and Dielectric Properties of Strontium Bismuth Tantalate Ceramics Derived by Molten Salt Synthesis Route. *J. Mater. Sci. Mater. Electron.* 2014, 25(11), 4943–4948.
18. Ou, Y.; Shi, J.; Yan, Q.; Li, C.; Zheng, Y. Ethanol-Assisted Molten Salt Synthesis of $\text{Bi}_4\text{Ti}_3\text{O}_{12}/\text{Bi}_2\text{Ti}_2\text{O}_7$ with Enhanced Visible Light Photocatalytic Performance. *Inorg. Chem. Commun.* 2021, 133 (June), 108867.
19. Zulhadjri; Wendari, T. P.; Septiani, U.; Arief, S. Investigation on Structure, Dielectric and Magnetic Properties of the Four-Layer Aurivillius Phase $\text{Pb}_{1-x}\text{Bi}_{3.5+x}\text{Nd}_{0.5}\text{Ti}_{4-x}\text{Mn}_x\text{O}_{15}$ Prepared via Molten Salt Method. *J. Solid State Chem.* 2020, 292 (August), 121723.
20. Moure, A. Review and Perspectives of Aurivillius Structures as a Lead-Free Piezoelectric System. *Appl. Sci.* 2018, 8 (1).
21. Berstruktur, S.; Bi, A. Sintesis Dengan Metode Hidrotermal Dan Karakterisasi. 2007, 44–48.
22. Vrijatovic Petrovic, M. M.; Bobic, J. D. *Perovskite and Aurivillius: Types of Ferroelectric Metal Oxides*; Elsevier Inc., 2018.
23. Krzhizhanovskaya, M.; Filatov, S.; Gusarov, V.; Paufler, P.; Bubnova, R.; Morozov, M.; Meyer, D. C. Aurivillius Phases in the $\text{Bi}_4\text{Ti}_3\text{O}_{12}/\text{BiFeO}_3$ System: Thermal Behaviour and Crystal Structure. *Zeitschrift fur Anorg. und Allg. Chemie* 2005, 631 (9), 1603–1608.
24. Wei, T.; Jia, B.; Shen, L.; Zhao, C.; Wu, L.; Zhang, B.; Tao, X.; Wu, S.; Liang, Y. Reversible Upconversion Modulation in New Photochromic $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Based Ceramics for Optical Storage and Anti-Counterfeiting Applications. *J. Eur. Ceram. Soc.* 2020, 40 (12), 4153–4163.
25. Afqir, M.; Tachafine, A.; Fasquelle, D.; Elaatmani, M.; Carru, J. C.; Zegzouti, A. Structural and Dielectric Properties of $\text{SrBi}_{2-x}\text{Ce}_x\text{Nb}_2\text{O}_9$ ($0 \leq x \leq 0.35$) Ceramics. *J. Electron. Mater.* 2018, 47 (10), 5793–5799.
26. Shin, H. W.; Son, J. Y. Preferential Growth Characteristics and Ferroelectric Properties of Epitaxial $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Thin Films along the A-Axis Direction Due to the Misfit Strains. *Mater. Sci. Semicond. Process.* 2021, 134 (June), 105991.
27. Anggraini, P. W. K.; Hikam, M. Pengujian Sifat Feroelektrik Film $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ Doping Nb_2O_5 (BNST). 2006, 5, 211–216.
28. Dhak, D.; Biswas, S. K.; Pramanik, P. Synthesis and Characterization of Nanocrystalline $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ferroelectric Ceramics Using TEA as the Polymeric Matrix. *J. Eur. Ceram. Soc.* 2006, 26 (16), 3717–3723.
29. Kresse, W. *Springer 123*.
30. Fang, P.; Fan, H.; Li, J.; Liang, F. Lanthanum Induced Larger Polarization and Dielectric Relaxation in Aurivillius Phase $\text{SrBi}_{2-x}\text{La}_x\text{Nb}_2\text{O}_9$ Ferroelectric Ceramics. *J. Appl. Phys.* 2010, 107 (6), 2–6.
31. Zeng, J.; Li, Y.; Wang, D.; Yin, Q. Electrical Properties of Neodymium Doped $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$ Ceramics. *Solid State Commun.* 2005, 133 (9), 553–557.
32. 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 $\text{Pb}_{1-2x}\text{Bi}_{1.5+2x}\text{La}_{0.5}\text{Nb}_{2-x}\text{Mn}_x\text{O}_9$. *Ceram. Int.* 2019, 45 (14), 17276–17282.
33. Coondoo, I.; Panwar, N.; Puli, V. S.; Katiyar, R. S. Ferroelectric and Piezoelectric Studies on MoSubstituted $\text{SrBi}_2\text{Ta}_2\text{O}_9$ Ferroelectric Ceramics. *Integr. Ferroelectr.* 2011, 124 (1), 1–9.

34. Verma, M.; Tanwar, A.; Sreenivas, K. Influence of Lone Pair on Structural and Electrical Properties of Sb Substituted Bismuth Layered $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ceramics. *Mater. Chem. Phys.* 2018, **209**, 159–164.
35. Yuan, J.; Nie, R.; Chen, Q.; Xiao, D.; Zhu, J. Structural Distortion, Piezoelectric Properties, and Electric Resistivity of A-Site Substituted $\text{Bi}_3\text{TiNbO}_9$ -Based High-Temperature Piezoceramics. *Mater. Res. Bull.* 2019, **115** (March), 70–79.
36. Wibowo, G. R.; Emriadi, E.; Zulhadjri, Z. Sintesis Senyawa Aurivillius Lapis Empat $\text{PbBi}_4\text{Ti}_4\text{O}_{15}$ Dan $\text{PbBi}_3\text{NdTi}_4\text{O}_{15}$ Dengan Metode Lelehan Campuran Garam NaCl-KCl Dan Karakterisasi Struktur. *J. Ris. Kim.* 2019, **10** (2), 85–92.
37. Porob, D. G.; Maggard, P. A. Synthesis of Textured $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ and $\text{LaBi}_4\text{Ti}_3\text{FeO}_{15}$ Ferroelectric Layered Aurivillius Phases by Molten-Salt Flux Methods. *Mater. Res. Bull.* 2006, **41** (8), 1513–1519.
38. Wendari, T. P.; Arief, S.; Mufti, N.; Baas, J.; Blake, G. R.; Zulhadjri. Ratio Effect of Salt Fluxes on Structure, Dielectric and Magnetic Properties of La,Mn-Doped $\text{PbBi}_2\text{Nb}_2\text{O}_9$ Aurivillius Phase. *Ceram. Int.* 2020, **46** (10), 14822–14827.
39. Zulhadjri, Z.; Ramadhani, R.; Billah, A. A.; Arief, S.; Emriadi, E. Sintesis Senyawa Aurivillius $\text{Ca}_{1-x}\text{Bi}_{3.5+x}\text{La}_{0.5}\text{Ti}_{4-x}\text{Mn}_x\text{O}_{15}$: Struktur Dan Sifat Dielektrik. *ALCHEMY J. Penelit. Kim.* 2018, **14** (1), 143.
40. Huang, Z.; Li, F.; Jiao, C.; Liu, J.; Huang, J.; Lu, L.; Zhang, H.; Zhang, S. Molten Salt Synthesis of $\text{La}_2\text{Zr}_2\text{O}_7$ Ultrafine Powders. *Ceram. Int.* 2016, **42** (5), 6221–6227.
41. Wicaksono, D. D.; Setiawan, N. I.; Wilopo, W.; Harijoko, A. Teknik Preparasi Sampel Dalam Analisis Mineralogi Dengan XRD Di Departemen Teknik Geologi, Fakultas Teknik, Universitas Gadjah Mada. *Proceeding Semin. Nas. Kebumian ke-10* 2017, No. September, 1864–1880.
42. Lou, Q.; Zeng, J.; Zheng, L.; Man, Z.; Wang, W.; Kassiba, A.; Park, C. H.; Politova, E. D.; Li, G. Influence of Defects on the Photocatalytic Behavior of La^{3+} Ions Doped $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ferroelectric Materials. *J. Appl. Phys.* 2019, **125** (15).
43. Ramos Guivar, J. A.; Sanches, E. A.; Bruns, F.; Sadrollahi, E.; Morales, M. A.; López, E. O.; Litterst, F. J. Vacancy Ordered $\gamma\text{-Fe}_2\text{O}_3$ Nanoparticles Functionalized with Nanohydroxyapatite: XRD, FTIR, TEM, XPS and Mössbauer Studies. *Appl. Surf. Sci.* 2016, **389**, 721–734.
44. Zulhadjri; Wendari, T. P.; Ramadhani, R.; Putri, Y. E.; Imelda. La^{3+} Substitution Induced Structural Transformation in $\text{CaBi}_4\text{Ti}_4\text{O}_{15}$ Aurivillius Phases: Synthesis, Morphology, Dielectric and Optical Properties. *Ceram. Int.* 2021, **47** (16), 23549–23557.
45. Rusli, R. Petunjuk Refinement Analisis Pola Difraksi Sinar-X Serbuk Menggunakan Metode Le Bail Pada Program Rietica. 2011, No. June, 1–29.
46. Kennedy, B. J.; Zhou, Q.; Ismunandar; Kubota, Y.; Kato, K. Cation Disorder and Phase Transitions in the Four-Layer Ferroelectric Aurivillius Phases $\text{ABi}_4\text{Ti}_4\text{O}_{15}$ ($\text{A}=\text{Ca}, \text{Sr}, \text{Ba}, \text{Pb}$). *J. Solid State Chem.* 2008, **181** (6), 1377–1386.
47. Chen, X.; Lu, Z.; Huang, F.; Min, J.; Li, J.; Xiao, J.; Yang, F.; Zeng, X. Molten Salt Synthesis and Magnetic Anisotropy of Multiferroic $\text{Bi}_4\text{NdTi}_3\text{Fe}_{0.7}\text{Ni}_{0.3}\text{O}_{15}$ ceramics. *J. Alloys Compd.* 2017, **693**, 448–453.
48. Sridarane, R.; Subramanian, S.; Janani, N.; Murugan, R. Investigation on Microstructure, Dielectric and Impedance Properties of $\text{Sr}_{1-x}\text{Bi}_{2+(2/3)x}(\text{V}_x\text{Ta}_{1-x})\text{O}_9$ [$x = 0, 0.1$ and 0.2] Ceramics. *J. Alloys Compd.* 2010, **492** (1–2), 642–648.
49. Kiran, J. N.; Sreenivasulu, M.; Sambasiva Rao, K.; Srinivasa Rao, K.; Nagamani, S.; Nagamalleswari, T. Study of Structural and Mechanical Aspects of Praseodymium and Europium Doped $\text{SrBi}_2\text{Nb}_2\text{O}_9$ Ceramics. *Mater. Today Proc.* 2019, **19**, 2658–2662.

50. Setiabudi, A. R. H. A. M. *Karakterisasi Material: Prinsip Dan Aplikasinya Dalam Penelitian Kimia*; 2012; Vol. 1.
51. Nanocrystals, A. 1 of 4. *Group* 2000, No. iii, 15–18.
52. 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 ($\text{SrBi}_4\text{Ti}_4\text{O}_{15}$). *Ceram. Int.* 2015, 41 (10), 13974–13982.
53. Wendari, T. P.; Arief, S.; Mufti, N.; Insani, A.; Baas, J.; Blake, G. R.; Zulhadjri. Structure-Property Relationships in the Lanthanide-Substituted $\text{PbBi}_2\text{Nb}_2\text{O}_9$ Aurivillius Phase Synthesized by the Molten Salt Method. *J. Alloys Compd.* 2021, 860, 158440.
54. Roy, M.; Bala, I.; Barbar, S. K.; Jangid, S.; Dave, P. Synthesis, Structural and Electrical Properties of La and Nb Modified $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Ferroelectric Ceramics. *J. Phys. Chem. Solids* 2011, 72 (11), 1347–1353.
55. Diao, C. L.; Zheng, H. W.; Gu, Y. Z.; Zhang, W. F.; Fang, L. Structural and Electrical Properties of Four-Layers Aurivillius Phase $\text{BaBi}_{3.5}\text{Nd}_{0.5}\text{Ti}_4\text{O}_{15}$ Ceramics. *Ceram. Int.* 2014, 40 (4), 5765–5769.
56. Xiao, J.; Zhang, H.; Xue, Y.; Lu, Z.; Chen, X.; Su, P.; Yang, F.; Zeng, X. The Influence of Ni-Doping Concentration on Multiferroic Behaviors in $\text{Bi}_4\text{NdTi}_3\text{FeO}_{15}$ Ceramics. *Ceram. Int.* 2015.
57. Suárez, D. Y.; Reaney, I. M.; Lee, W. E. Relation between Tolerance Factor and T_c in Aurivillius Compounds. *J. Mater. Res.* 2001, 16 (11), 3139–3149.
58. Long, C.; Fan, H.; Ren, P. Structure, Phase Transition Behaviors and Electrical Properties of Nd Substituted Aurivillius Polycrystallines $\text{Na}_{0.5}\text{Nd}_x\text{Bi}_{2.5-x}\text{Nb}_2\text{O}_9$ ($x = 0.1, 0.2, 0.3$, and 0.5). *Inorg. Chem.* 2013.
59. Reddyprakash, M.; Rout, S. K.; Satapathy, A.; Sinha, T. P.; Sariful, S. M. Dielectric and Ferroelectric Properties of Samarium Substituted $\text{BaBi}_4\text{Ti}_4\text{O}_{15}$ Aurivillius Oxides. *Ceram. Int.* 2016.