

## DAFTAR PUSTAKA

- (1) Zhang, A.; Wang, T.; Liu, J.; Liu, J.; Chen, G.; Yang, H. Significant Improvement in Energy Storage for BT Ceramics via NBT Composition Regulation. *J. Alloys Compd.* **2023**, *968* (July), 172255. <https://doi.org/10.1016/j.jallcom.2023.172255>.
- (2) Liu, G.; Wang, Y.; Han, G.; Gao, J.; Yu, L.; Tang, M.; Li, Y.; Hu, J.; Jin, L.; Yan, Y. Enhanced Electrical Properties and Energy Storage Performances of NBT-ST Pb-Free Ceramics through Glass Modification. *J. Alloys Compd.* **2020**, *836*, 154961. <https://doi.org/10.1016/j.jallcom.2020.154961>.
- (3) Chen, G.; Ji, C.; Bai, X.; Wang, J.; Chen, C.; Zhou, Z.; Zhang, Z.; Su, Z.; Gao, R.; Cai, W.; Deng, X.; Wang, Z.; Fu, C. Enhanced the Energy Storage Performance of NBT-BY Relaxor Ferroelectric Ceramics Doped by STO. *Mater. Today Commun.* **2023**, *35* (May), 106439. <https://doi.org/10.1016/j.mtcomm.2023.106439>.
- (4) Wu, C.; Qiu, X.; Ge, W.; Liu, C.; Zhao, H.; Chen, L.; Liu, Z.; Li, L.; Fisher, J. G. Enhanced Energy Storage Performance and Temperature Stability Achieved by a Synergic Effect in Nd<sup>3+</sup>/Ga<sup>3+</sup> Co-Doped (Na<sub>0.5</sub>Bi<sub>0.5</sub>)TiO<sub>3</sub>-Based Ceramics. *Ceram. Int.* **2022**, *48* (21), 31931–31940. <https://doi.org/10.1016/j.ceramint.2022.07.129>.
- (5) Roy, R.; Dutta, A. Effect of Vanadium Doping on the Electrical Charge Transport and Dielectric Relaxation Properties of Sodium Bismuth Titanate Perovskite. *Ceram. Int.* **2021**, *47* (11), 15732–15742. <https://doi.org/10.1016/j.ceramint.2021.02.145>.
- (6) Behara, S.; Thomas, T. Stability and Amphotericity Analysis in Rhombohedral ABO<sub>3</sub> Perovskites. *Materialia* **2020**, *13* (April), 100819. <https://doi.org/10.1016/j.mtla.2020.100819>.
- (7) Xiao, H.; He, J.; Lu, X.; Wang, F.; Guo, Y. Bandgap-Engineered Ferroelectric Single-Crystalline NBT-BT Based Nanocomposites with Excellent Visible Light-Ultrasound Catalytic Performance. *Chemosphere* **2022**, *306* (June), 135543. <https://doi.org/10.1016/j.chemosphere.2022.135543>.
- (8) Wendari, T. P.; Rizki, A.; Zuhadjri; Putri, Y. E.; Emriadi; Labanni, A.; Insani, A.; Liandi, A. R. Structure, Ferroelectric, Magnetic, and Energy Storage Performances of Lead-Free Bi<sub>4</sub>Ti<sub>2.75</sub>(FeNb)<sub>0.125</sub>O<sub>12</sub> Aurivillius Ceramic by

- Doping Fe<sup>3+</sup> Ions Extracted from Padang Beach Sand. *Case Stud. Chem. Environ. Eng.* **2024**, 9 (October 2023), 100679. <https://doi.org/10.1016/j.cscee.2024.100679>.
- (9) Chen, G.; Ji, C.; Bai, X.; Wang, J.; Chen, C.; Zhou, Z.; Zhang, Z.; Su, Z.; Gao, R.; Cai, W.; Deng, X.; Wang, Z.; Fu, C. Enhanced the Energy Storage Performance of NBT-BY Relaxor Ferroelectric Ceramics Doped by STO. *Mater. Today Commun.* **2023**, 35 (May), 106439. <https://doi.org/10.1016/j.mtcomm.2023.106439>.
- (10) Wu, C.; Qiu, X.; Chen, L.; Liu, C.; Zhao, H.; Ge, W.; Liu, Z.; Yao, M. A Strategy to Achieve High Energy Storage Performance under a Relatively Low Electric Field in NBT-Based Ceramics. *J. Alloys Compd.* **2022**, 910, 164851. <https://doi.org/10.1016/j.jallcom.2022.164851>.
- (11) Jiao, Y.; Song, S.; Chen, F.; Zeng, X.; Wang, X.; Song, C.; Liu, G.; Yan, Y. Energy Storage Performance of 0.55Bi0.5Na0.5TiO3-0.45SrTiO3 Ceramics Doped with Lanthanide Elements (Ln = La, Nd, Dy, Sm) Using a Viscous Polymer Processing Route. *Ceram. Int.* **2022**, 48 (8), 10885–10894.
- (12) Khiri, M. Z. A.; Matori, K. A.; Zaid, M. H. M.; Abdullah, A. C.; Zainuddin, N.; Jusoh, W. N. W.; Jalil, R. A.; Rahman, N. A. A.; Kul, E.; Wahab, S. A. A.; Effendy, N. Soda Lime Silicate Glass and Clam Shell Act as Precursor in Synthesize Calcium Fluoroaluminosilicate Glass to Fabricate Glass Ionomer Cement with Different Ageing Time. *J. Mater. Res. Technol.* **2020**, 9 (3), 6125–6134. <https://doi.org/10.1016/j.jmrt.2020.04.015>.
- (13) Zhu, W.; Shen, Z.-Y.; Deng, W.; Li, K.; Luo, W.; Song, F.; Zeng, X.; Wang, Z.; Li, Y. A Review: (Bi,Na)TiO3 (BNT)-Based Energy Storage Ceramics. *J. Mater.* **2023**, 3 (xxxx). <https://doi.org/10.1016/j.jmat.2023.05.002>.
- (14) Wang, F.; Zhu, C.; Zhao, S. High Energy Storage Density of NBT-0.10BFO Solid Solution Films. *Ceram. Int.* **2021**, 47 (6), 8653–8658. <https://doi.org/10.1016/j.ceramint.2020.11.235>.
- (15) Zou, K.; Dan, Y.; Xu, H.; Zhang, Q.; Lu, Y.; Huang, H.; He, Y. Recent Advances in Lead-Free Dielectric Materials for Energy Storage. *Mater. Res. Bull.* **2019**, 113, 190–201. <https://doi.org/10.1016/j.materresbull.2019.02.002>.
- (16) Jiang, Y.; Zhou, S.; Mofarah, S. S.; Niu, R.; Sun, Y.; Rawal, A.; Ma, H.; Xue, K.; Fang, X.; Toe, C. Y.; Chen, W. F.; Chen, Y. S.; Cairney, J. M.; Rahman, R.; Chen, Z.; Koshy, P.; Wang, D.; Sorrell, C. C. Efficient and Stable Piezo-

- Photocatalytic Splitting of Water and Seawater by Interfacial Engineering of Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>/Na<sub>0.5</sub>Bi<sub>4.5</sub>Ti<sub>4</sub>O<sub>15</sub> Self-Generated Heterojunctions. *Nano Energy* **2023**, 116 (June), 108830. <https://doi.org/10.1016/j.nanoen.2023.108830>.
- (17) Ning, Y.; Pu, Y.; Zhang, Q.; Zhou, S.; Wu, C.; Zhang, L.; Shi, Y.; Sun, Z. Achieving High Energy Storage Properties in Perovskite Oxide via High-Entropy Design. *Ceram. Int.* **2023**, 49 (8), 12214–12223. <https://doi.org/10.1016/j.ceramint.2022.12.073>.
- (18) Maier, R. A.; Garrity, K. F.; Ozarowski, A.; Donohue, M. P.; Cibin, G.; Levin, I. Effects of Octahedral Tilting on the Site of Substitution of Manganese in CaTiO<sub>3</sub>. *Acta Mater.* **2021**, 207. <https://doi.org/10.1016/j.actamat.2021.116688>.
- (19) Bartel, C. J.; Sutton, C.; Goldsmith, B. R.; Ouyang, R.; Musgrave, C. B.; Ghiringhelli, L. M.; Scheffler, M. New Tolerance Factor to Predict the Stability of Perovskite Oxides and Halides. *Sci. Adv.* **2019**, 5 (2), 1–10. <https://doi.org/10.1126/sciadv.aav0693>.
- (20) Mishra, S.; Parida, S. K. Lead-Free Complex Double Perovskite SrLiFeWO<sub>6</sub>: Structural, Microstructure, Electrical and Optical Study. *Phys. B Condens. Matter* **2023**, 668 (August), 415246. <https://doi.org/10.1016/j.physb.2023.415246>.
- (21) Zhou, X.; Liu, K.; Yan, Z.; Xie, B.; Fan, P.; Chen, S.; Samart, C.; Salamon, D.; Tan, H.; Fan, Z. High Energy Storage Efficiency of NBT-SBT Lead-Free Ferroelectric Ceramics. *Ceram. Int.* **2022**, 48 (16), 23266–23272. <https://doi.org/10.1016/j.ceramint.2022.04.311>.
- (22) Roy, R.; Dutta, A. Structural, Optical and Enhanced Electrical Properties of Vanadium Alloyed Sodium Bismuth Titanate Solid Solution Synthesized by a Chemical-Mechanical Hybrid Method. *J. Alloys Compd.* **2020**, 843, 155999. <https://doi.org/10.1016/j.jallcom.2020.155999>.
- (23) Shi, L. N.; Wang, Y. G.; Ren, Z. H.; Jain, A.; Jiang, S. S.; Chen, F. G. Significant Improvement in Electrical Characteristics and Energy Storage Performance of NBT-Based Ceramics. *Ceram. Int.* **2022**, 48 (18), 26973–26983. <https://doi.org/10.1016/j.ceramint.2022.06.009>.
- (24) Shin, H. W.; Son, J. Y. Preferential Growth Characteristics and Ferroelectric Properties of Epitaxial SrBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> Thin Films along the A-Axis Direction Due to the Misfit Strains. *Mater. Sci. Semicond. Process.* **2021**, 134 (June), 105991.

- <https://doi.org/10.1016/j.mssp.2021.105991>.
- (25) Li, S.; Dong, W.; Wei, L.; Wang, G.; Xia, C.; Wang, X.; Wang, B.; Zhu, B.; Wang, H. Optimizing Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub> Electrolyte Fuel Cell through Constructing Heterostructures. *Ceram. Int.* **2022**, *48* (13), 18116–18123. <https://doi.org/10.1016/j.ceramint.2022.03.069>.
- (26) Zhu, Y.; Sun, K.; Wu, S.; Zhou, P.; Fu, Y.; Xia, J.; Li, H. F. A Comprehensive Review on the Ferroelectric Orthochromates: Synthesis, Property, and Application. *Coord. Chem. Rev.* **2023**, *475*. <https://doi.org/10.1016/j.ccr.2022.214873>.
- (27) Shi, L. N.; Ren, Z. H.; Jain, A.; Jin, R. H.; Jiang, S. S.; Zhou, H. Z.; Chen, F. G.; Wang, Y. G. Enhanced Energy Storage Performance Achieved in Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>–Sr<sub>0.7</sub>Bi<sub>0.2</sub>TiO<sub>3</sub> Ceramics via Domain Structure and Bandgap Width Tuning. *Ceram. Int.* **2023**, *49* (8), 12822–12831.
- (28) Lenka, S.; Badapanda, T.; Ghosh, S. P.; Richhariya, T.; Sarangi, S.; Tripathy, S. N. Understanding of Structural Evolution, Dielectric Performance, and Photoluminescence Behavior of Sm-Modified Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>. *Mater. Today Commun.* **2023**, *36* (July), 106738.
- (29) Sui, H.; Sun, H.; Yan, C.; Xiao, S.; Wang, Y.; Liu, X.; Huang, D. The Construction of Relaxor Perovskite Na<sub>0.5</sub>Bi<sub>0.5</sub>(Fe<sub>0.03</sub>Ti<sub>0.97</sub>)O<sub>3</sub>/Ba(Ti<sub>1-x</sub>Sr<sub>x</sub>)O<sub>3</sub> Multilayer Thin Film and Explorations on Origin of the Enhanced Energy Storage Performance. *Appl. Surf. Sci.* **2021**, *543* (December 2020). <https://doi.org/10.1016/j.apsusc.2020.148755>.
- (30) Xue, P.; Wu, H.; Lu, Y.; Zhu, X. Recent Progress in Molten Salt Synthesis of Low-Dimensional Perovskite Oxide Nanostructures, Structural Characterization, Properties, and Functional Applications: A Review. *J. Mater. Sci. Technol.* **2018**, *34* (6), 914–930. <https://doi.org/10.1016/j.jmst.2017.10.005>.
- (31) Severino, J.; Jacob, R.; Belusko, M.; Liu, M.; Bruno, F. A Novel, Low-Cost and Robust Method for Determining Molten Salt Density at High Temperatures. *J. Energy Storage* **2021**, *41* (July), 102935. <https://doi.org/10.1016/j.est.2021.102935>.
- (32) Wendari, T. P.; Arief, S.; Mufti, N.; Insani, A.; Baas, J.; Blake, G. R.; Zulhadjri. Structure-Property Relationships in the Lanthanide-Substituted PbBi<sub>2</sub>Nb<sub>2</sub>O<sub>9</sub> Aurivillius Phase Synthesized by the Molten Salt Method. *J. Alloys Compd.*

- 2021**, 860, 158440. <https://doi.org/10.1016/j.jallcom.2020.158440>.
- (33) Ji, C.; Chen, G.; Wang, J.; Bai, X.; Zhang, Z.; Chen, C.; Cai, W. Journal of the European Ceramic Society Superior Energy Storage Performance of < 001 > - Oriented NBT-BY-STO Relaxor Ferroelectric Textured Ceramics. *J. Eur. Ceram. Soc.* **2023**, 43 (3), 957–965. <https://doi.org/10.1016/j.jeurceramsoc.2022.11.007>.
- (34) Wendari, T. P.; Zuhadjri; Emriadi. Observation of Relaxor Ferroelectric Behavior and Energy Storage Performances in Sr<sub>1.25</sub>Bi<sub>2.75</sub>Nb<sub>1.25</sub>Ti<sub>1.75</sub>O<sub>12</sub> Aurivillius Ceramic Synthesized by Molten Salt Method. *J. Solid State Chem.* **2023**, 325 (December 2022), 124150. <https://doi.org/10.1016/j.jssc.2023.124150>.
- (35) Luo, N.; Han, K.; Liu, L.; Peng, B.; Wang, X.; Hu, C.; Zhou, H.; Feng, Q.; Chen, X.; Wei, Y. Lead-Free Ag<sub>1-3x</sub>LaxNbO<sub>3</sub> Antiferroelectric Ceramics with High-Energy Storage Density and Efficiency. *J. Am. Ceram. Soc.* **2019**, 102 (8), 4640–4647. <https://doi.org/10.1111/jace.16309>.
- (36) Li, X.; Dong, X.; Wang, F.; Tan, Z.; Zhang, Q.; Chen, H.; Xi, J.; Xing, J.; Zhou, H.; Zhu, J. Realizing Excellent Energy Storage Properties in Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-Based Lead-Free Relaxor Ferroelectrics. *J. Eur. Ceram. Soc.* **2022**, 42 (5), 2221–2229. <https://doi.org/10.1016/j.jeurceramsoc.2021.12.028>.
- (37) Chen, F.; Zhao, K.; Jiang, X.; Zeng, X.; Dong, J.; Yu, K.; Song, C.; Yan, Y.; Jin, L.; Zhang, D. Improved Dielectric Energy Storage Performance of Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub>-Based Lead-Free Relaxation Ferroelectric Ceramics Achieved by Domain Structural Regulation and Enhanced Densification. *Ceram. Int.* **2023**, 49 (19), 31152–31162. <https://doi.org/10.1016/j.ceramint.2023.07.061>.
- (38) Wang, T.; Zhang, L.; Zhang, A.; Liu, J.; Kong, L.; Chen, G.; Cheng, Y.; Tian, Y.; Yang, H.; Hu, Y.; Xing, Z.; Li, C.; Jin, L. Synergistic Enhanced Energy Storage Performance of NBT-KBT Ceramics by K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub> Composition Design. *J. Alloys Compd.* **2023**, 948, 169725. <https://doi.org/10.1016/j.jallcom.2023.169725>.
- (39) Zannen, M.; Belhadi, J.; Benyoussef, M.; Khemakhem, H.; Zaidat, K.; El Marssi, M.; Lahmar, A. Electrostatic Energy Storage in Antiferroelectric like Perovskite. *Superlattices Microstruct.* **2019**, 127, 43–48. <https://doi.org/10.1016/j.spmi.2018.03.041>.
- (40) Ayyad, O. D. H. Novel Strategies for The Synthesis of Metal Nanoparticles and

- Nanostructures. *Thesis* **2019**, 8 (V 4), 233.
- (41) Devi, C. S.; Kumar, G. S.; Prasad, G. Control of Ferroelectric Phase Transition in Nano Particulate NBT-BT Based Ceramics. *Mater. Sci. Eng. B* **2021**, 178 (5), 283–292. <https://doi.org/10.1016/j.mseb.2012.12.001>.
- (42) Shimizu, K.; Negishi, L.; Ito, T.; Touma, S.; Matsumoto, T.; Awaji, M.; Kurumizaka, H.; Yoshitake, K.; Kinoshita, S.; Asakawa, S.; Suzuki, M. Evolution of Nacre- and Prisms-Related Shell Matrix Proteins in the Pen Shell, *Atrina Pectinata*. *Comp. Biochem. Physiol. - Part D Genomics Proteomics* **2022**, 44 (August), 101025. <https://doi.org/10.1016/j.cbd.2022.101025>.
- (43) Das Lala, S.; Barua, E.; Deb, P.; Deoghare, A. B. Physico-Chemical and Biological Behaviour of Eggshell Bio-Waste Derived Nano-Hydroxyapatite Matured at Different Aging Time. *Mater. Today Commun.* **2021**, 27 (October 2020), 102443. <https://doi.org/10.1016/j.mtcomm.2021.102443>.
- (44) Al Kaabi, F. S.; Abdulkareem, M. A.; Muhsin, N. A. Determining the Optimal Conditions for the Synthesis Nano CaTiO<sub>3</sub> Square Prepared from Natural Dolomite Rocks. *Results Chem.* **2023**, 5 (March), 100915. <https://doi.org/10.1016/j.rechem.2023.100915>.
- (45) Sahadat Hossain, M.; Jahan, S. A.; Ahmed, S. Crystallographic Characterization of Bio-Waste Material Originated CaCO<sub>3</sub>, Green-Synthesized CaO and Ca(OH)<sub>2</sub>. *Results Chem.* **2023**, 5 (November 2022), 100822. <https://doi.org/10.1016/j.rechem.2023.100822>.
- (46) Wendari, T. P.; Akbar, M. A.; Izzati, A. F.; Haidar, H.; Rizki, A.; Zulhadjri; Arief, S.; Mufti, N.; Blake, G. R. Structure, Dielectric, and Energy Storage Properties of Perovskite CaTiO<sub>3</sub> Ceramic Synthesized Using the Natural Calcium from Pensi Shell (*Corbicula Moltkiana*) Waste. *J. Mol. Struct.* **2024**, 1307 (October 2023), 137949. <https://doi.org/10.1016/j.molstruc.2024.137949>.
- (47) Fan, Z.; Yu, Y.; Huang, J.; Zhang, Q.; Lu, Y.; He, Y. Excellent Energy Storage Properties over a Wide Temperature Range under Low Driving Electric Fields in NBT-BSN Lead-Free Relaxor Ferroelectric Ceramics. *Ceram. Int.* **2021**, 47 (4), 4715–4721. <https://doi.org/10.1016/j.ceramint.2020.10.040>.
- (48) Moure, A. Review and Perspectives of Aurivillius Structures as a Lead-Free Piezoelectric System. *Appl. Sci.* **2018**, 8 (1). <https://doi.org/10.3390/app8010062>.
- (49) Zhang, A.; Wang, T.; Liu, J.; Liu, J.; Chen, G.; Yang, H.; Kong, L.; Cheng, Y.;

- Tian, Y.; Li, C.; Jin, L. Significant Improvement in Energy Storage for BT Ceramics via NBT Composition Regulation. *J. Alloys Compd.* **2023**, 968 (September), 172255. <https://doi.org/10.1016/j.jallcom.2023.172255>.
- (50) Roy, M.; Bala, I.; Barbar, S. K.; Jangid, S.; Dave, P. Synthesis, Structural and Electrical Properties of La and Nb Modified Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> Ferroelectric Ceramics. *J. Phys. Chem. Solids* **2019**, 72 (11), 1347–1353. <https://doi.org/10.1016/j.jpccs.2011.08.007>.
- (51) Hiramatsu, T.; Tamura, T.; Wada, N.; Tamura, H.; Sakabe, Y. Effects of Grain Boundary on Dielectric Properties in Fine-Grained BaTiO<sub>3</sub> Ceramics. *Mater. Sci. Eng. B* **2021**, 120 (1–3), 55–58. <https://doi.org/10.1016/j.mseb.2005.02.054>.
- (52) 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<sub>1-2x</sub>Bi<sub>1.5+2x</sub>La<sub>0.5</sub>Nb<sub>2</sub>-XMnxO<sub>9</sub>. *Ceram. Int.* **2019**, 45 (14), 17276–17282. <https://doi.org/10.1016/j.ceramint.2019.05.285>.
- (53) 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<sub>1-2x</sub>Bi<sub>1.5+2x</sub>La<sub>0.5</sub>Nb<sub>2</sub>-XMnxO<sub>9</sub>. *Ceram. Int.* **2019**, 45 (14), 17276–17282. <https://doi.org/10.1016/j.ceramint.2019.05.285>.
- (54) Wendari, T. P.; Zulhadjri; Rizki, A.; Insani, A.; Emriadi; Arief, S. Coexistence of Relaxor Ferroelectricity and Magnetism in Multi-Element Substituted Aurivillius Phases Pb<sub>1-2x</sub>Bi<sub>1.5+2x</sub>Nd<sub>0.5</sub>Nb<sub>2</sub>-XMnxO<sub>9</sub>. *J. Solid State Chem.* **2023**, 324 (February), 124083. <https://doi.org/10.1016/j.jssc.2023.124083>.
- (55) Liu, G.; Wang, Y.; Han, G.; Gao, J.; Yu, L.; Tang, M.; Li, Y.; Hu, J.; Jin, L.; Yan, Y. Enhanced Electrical Properties and Energy Storage Performances of NBT-ST Pb-Free Ceramics through Glass Modified Bi Cation. *J. Alloys Compd.* **2020**, 836, 154961. <https://doi.org/10.1016/j.jallcom.2020.154961>.