

DAFTAR PUSTAKA

1. Hannan MA, Wali SB, Ker PJ, et al. Battery energy-storage system: A review of technologies, optimization objectives, constraints, approaches, and outstanding issues. *J Energy Storage* [homepage on the Internet] 2021;42(May):103023. Available from: <https://doi.org/10.1016/j.est.2021.103023>
2. Wu J, Zhang H, Meng N, et al. Perovskite $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ -based materials for dielectric capacitors with ultrahigh thermal stability. *Mater Des* [homepage on the Internet] 2021;198:109344. Available from: <https://doi.org/10.1016/j.matdes.2020.109344>
3. Xiaoshuang Qiao, Wu D, Zhang F, et al. Enhanced energy density and thermal stability in relaxor ferroelectric $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{-Sr}_{0.7}\text{Bi}_{0.2}\text{TiO}_3$ ceramics. *J Eur Ceram Soc* [homepage on the Internet] 2019;39(15):4778–4784. Available from: <https://www.sciencedirect.com/science/article/abs/pii/S0955221919304753>
4. Ma S, Jiang M, Tao P, et al. Temperature effect and thermal impact in lithium-ion batteries: A review. *Prog Nat Sci Mater Int* 2018;28(6):653–666.
5. Pappachan S, Vasylechko L, Rashid A, Venkatesan GN. Influence of the substituent LiNbO_3 in the structural, ferroelectric, dielectric, optical and mechanical properties of $\text{K}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$. *J Alloys Compd* 2023;965(July):171327.
6. Michał Rerak, Jolanta Makowska MA-H and LK. Impedance Spectroscopy of Pr-Doped $\text{BaBi}_2\text{Nb}_2\text{O}_9$ Aurivillius Ceramics. 2022;27(7):726–730.
7. Kostopoulou A, Kymakis E, Stratakis E. Perovskite nanostructures for photovoltaic and energy storage devices. *J Mater Chem A* [homepage on the Internet] 2018;6(21):9765–9798. Available from: <https://xlink.rsc.org/?DOI=C8TA01964A>
8. Kasap S, Capper P. Springer Handbook of Electronic and Photonic Materials [electronic resource] / edited by Safa Kasap, Peter Capper. [Homepage on the Internet]. 2nd ed. 20. SpringerLink, 2017; Available from: <https://lib.ugent.be/catalog/ebk01:4100000000882531>
9. Zhang Y, Cao M, Yao Z, et al. Effects of silica coating on the microstructures and energy storage properties of BaTiO_3 ceramics. *Mater Res Bull* [homepage on the Internet] 2015;67:70–76. Available from: <https://linkinghub.elsevier.com/retrieve/pii/S0025540815000690>
10. Lin Y, Li D, Zhang M, et al. Excellent Energy-Storage Properties Achieved in BaTiO_3 -Based Lead-Free Relaxor Ferroelectric Ceramics via Domain Engineering on the Nanoscale. *ACS Appl Mater Interfaces* [homepage on the Internet] 2019;11(40). Available from: <http://dx.doi.org/10.1021/acsami.9b10819>
11. Wendari TP, Zulhadjri, Emriadi. Observation of relaxor ferroelectric behavior and energy storage performances in $\text{Sr}_{1.2}\text{Bi}_{2.75}\text{Nb}_{1.25}\text{Ti}_{1.75}\text{O}_{12}$ aurivillius ceramic synthesized by molten salt method. *J Solid State Chem* 2023;325(May):124150.
12. Singh A, Kharangarh P, Gupta V. Enhanced energy storage efficiency with superior thermal stability under low electric field and large electric field driven strain in environment-friendly $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ based ferroelectric modified with LiNbO_3 . *J Alloys Compd* 2023;945:169181.
13. Chen J, Wang Y, Zhang Y, Yang Y, Jin R. Giant electric field-induced strain at room temperature in LiNbO_3 -doped $0.94(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3\text{-}0.06\text{BaTiO}_3$. *J Eur Ceram Soc* 2017;37:2365–2371.
14. Chen Y, Zhang L, Zhang Y, Gao H, Yan H. Large-area perovskite solar cells-a review of recent progress and issues. *RSC Adv* [homepage on the Internet] 2018;8(19):10489–10508. Available from: <http://dx.doi.org/10.1039/C8RA00384J>
15. Zhou D, Zhou T, Tian Y, Zhu X, Tu Y. Perovskite-Based Solar Cells: Materials, Methods, and Future Perspectives. *J Nanomater* 2018;2018.
16. Shi Z, Jayatissa AH. Perovskites-based solar cells: A review of recent progress, materials and processing methods. *Materials (Basel)* 2018;11(5).
17. Assirey EAR. Perovskite synthesis, properties and their related biochemical and industrial application. *Saudi Pharm J* 2019;
18. Pattipaka S, Lim Y, Son YH, Bae YM, Peddigari M, Hwang GT. Ceramic-Based Dielectric Materials for Energy Storage Capacitor Applications. *Materials (Basel)*. 2024;17(10).
19. Sun J, Luo B, Li H. A Review on the Conventional Capacitors, Supercapacitors, and

- Emerging Hybrid Ion Capacitors: Past, Present, and Future. *Adv. Energy Sustain. Res.* 2022;3(6).
20. Zhang T, Li W, Zhao Y, Yu Y, Fei W. High Energy Storage Performance of Opposite Double-Heterojunction Ferroelectricity–Insulators. *Adv Funct Mater* 2018;28(10).
 21. Zhao L, Liu Q, Gao J, Zhang S, Li JF. Lead-Free Antiferroelectric Silver Niobate Tantalate with High Energy Storage Performance. *Adv Mater* 2017;29(31).
 22. Shkuratov SI, Lynch CS. A review of ferroelectric materials for high power devices. *J Mater* 2022;8(4):739–752.
 23. Said SM, Sabri MFM, Salleh F. Ferroelectrics and Their Applications. In: Reference Module in Materials Science and Materials Engineering. Elsevier, 2017;
 24. Damjanovic D. Ferroelectric, dielectric and piezoelectric properties of ferroelectric thin films and ceramics. 1998;
 25. Li D, Zeng X, Li Z, et al. Progress and perspectives in dielectric energy storage ceramics. *J Adv Ceram* 2021;10(4):675–703.
 26. Su R, Tseng JK, Lu MS, Lin M, Fu Q, Zhu L. Ferroelectric behavior in the high temperature paraelectric phase in a poly(vinylidene fluoride-co-trifluoroethylene) random copolymer. *Polymer (Guildf)* 2012;53(3):728–739.
 27. Lenka S, Badapanda T, Ghosh SP, Richhariya T, Sarangi S, Tripathy SN. Understanding of structural evolution, dielectric performance, and photoluminescence behavior of Sm-modified $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$. *Mater Today Commun* [homepage on the Internet] 2023;36. Available from: <https://doi.org/10.1016/j.mtcomm.2023.106738>
 28. Sui H, Sun H, Yan C, et al. The construction of relaxor perovskite $\text{Na}_{0.5}\text{Bi}_{0.5}(\text{Fe}_{0.03}\text{Ti}_{0.97})\text{O}_3/\text{Ba}(\text{Ti}_{1-x}\text{Sr}_x)\text{O}_3$ multilayer thin film and explorations on origin of the enhanced energy storage performance. *Appl Surf Sci* 2021;543(December 2020).
 29. 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.
 30. Lin C, Chi Y, Jin Y, Song H. Experimental Study on Molten Salt Oxidation of High Salt Content Pharmaceutical Residue. *Procedia Environ Sci* 2016;31:335–344.
 31. 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.
 32. Broström M, Enestam S, Backman R, Mäkelä K. Condensation in the KCl–NaCl system. *Fuel Process Technol* [homepage on the Internet] 2013;105(February):142–148. Available from: <http://dx.doi.org/10.1016/j.fuproc.2011.08.006>
 33. Wendari TP, Arief S, Mufti N, et al. 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.
 34. Bunaciu AA, Udriștioiu E gabriela, Aboul-Enein HY. X-Ray Diffraction: Instrumentation and Applications. *Crit Rev Anal Chem* 2015;45(4):289–299.
 35. Harrington GF, Santiso J. Back-to-Basics tutorial: X-ray diffraction of thin films. *J Electroceramics* 2021;47(4):141–163.
 36. Kumar A, Asthana S. Investigations on structural, dielectric, and impedance properties of ecofriendly $\text{Ho}^{3+}/\text{Nb}^{5+}$ co-substituted $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$. *J Alloys Compd* 2022;404–406(SPEC. ISS.):1.
 37. 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.
 38. Morozzi P, Ballarin B, Arcozzi S, et al. Ultraviolet – Visible Diffuse Reflectance Spectroscopy (UV–Vis DRS), a rapid and non-destructive analytical tool for the identification of Saharan dust events in particulate matter filters. 2021;252(September 2020).
 39. Zhou W, Deng H, Yu L, Yang P, Chu J. Optical band-gap narrowing in perovskite ferroelectric ABO_3 ceramics (A=Pb, Ba; B=Ti) by ion substitution technique. *Ceram Int* 2015;41(10):13389–13392.
 40. Hummel RE, Dubroca T. Spectroscopy in Analysis of Surfaces. 2013;
 41. Asmatulu R, Khan WS. Characterization of electrospun nanofibers. In: Synthesis and

- Applications of Electrospun Nanofibers. Elsevier, 2019; p. 257–281. Available from: <https://linkinghub.elsevier.com/retrieve/pii/B9780128139141000134>
42. Ghasempour R, Narei H. CNT Basics and Characteristics. Carbon Nanotub Polym From Nanoscale to Macroscale 2018 ;1–24. Available from: <https://www.sciencedirect.com/science/article/abs/pii/B9780323482219000017?via%3Dihub>
 43. Kulka S, Lendl B. Vibrational spectroscopic detection in capillary electrophoresis (CE). Compr Anal Chem 2005 ;45:557–582. Available from: <https://www.sciencedirect.com/science/article/abs/pii/S0166526X05450114>
 44. Clarkson BL. Theory of vibration with applications. J Sound Vib 1981;79(4):627.
 45. Zhang L, Pu Y, Chen M, Peng X, Wang B, Shang J. Design strategies of perovskite energy-storage dielectrics for next-generation capacitors. J Eur Ceram Soc 2023;43(14):5713–5747. Available from: <https://doi.org/10.1016/j.jeurceramsoc.2023.06.037>
 46. Zhang B, Li L, Luo W. Oxygen vacancy regulation and its high frequency response mechanism in microwave ceramics. J Mater Chem C [homepage on the Internet] 2018;6(41):11023–11034. Available from: <https://xlink.rsc.org/?DOI=C8TC03936D>
 47. Pu Y, Qiu Z, Lv B, et al. The first-principle study on certain structural, band-structural, elastic, optical and piezoelectric properties of the Ca, Zr and Ca/Zr-doped BaTiO₃. Mod Phys Lett B [homepage on the Internet] 2023;37(10). Available from: <https://www.worldscientific.com/doi/10.1142/S0217984923500070>
 48. Le XL, Phu ND, Duong NX. Enhancement of ferroelectricity in perovskite BaTiO₃ epitaxial thin films by sulfurization. AIMS Mater Sci 2024;11(4):802–814.
 49. Saleem M, Bhagat BR, Mishra A. Influence of Lead Free Bi_{0.5}Na_{0.5}TiO₃ Substitution on the Structural and Electrical Properties of Ferromagnetic Metallic Phase La_{0.8}Sr_{0.2}MnO₃. J Inorg Organomet Polym Mater [homepage on the Internet] 2019;29(6):2103–2115. Available from: <https://doi.org/10.1007/s10904-019-01169-1>
 50. Zhuang H, Zhang S, Zhang X, et al. Synthesis and characterization of β-Ga₂O₃ nanorods. Appl Surf Sci 2008;254(10):3057–3060.
 51. Sidorov N, Palatnikov M, Kadetova A. Raman Scattering in Non-Stoichiometric Lithium. 2019;
 52. Chen X, Chen J, Ma D, Fang L, Zhou H. High relative permittivity, low dielectric loss and good thermal stability of BaTiO₃-bi(Mg_{0.5}Zr_{0.5})O₃ solid solution. Ceram Int 2015;41(2):2081–2088. Available from: <http://dx.doi.org/10.1016/j.ceramint.2014.10.003>
 53. Shu Y, Ma Q, Cao L, Ding Z, Chen X, Yang F. Bandgap tunability of Aurivillius Bi₄NdTi₃(Fe_{0.5}Mn_{0.5})O₁₅ (M=Cr, Ni, Fe, Co, Mn) thin films. J Alloys Compd [homepage on the Internet] 2019;773:934–939. Available from: <https://doi.org/10.1016/j.jallcom.2018.09.308>
 54. Lv J, Zhou J, Dong J, et al. Achieving excellent energy storage properties of Na_{0.5}Bi_{0.5}TiO₃ - based ceramics by using a two-step strategy involving phase and polarization modification. Ceram Int 2021;47(23):32794–32803. Available from: <https://doi.org/10.1016/j.ceramint.2021.08.176>
 55. Mamani Flores E, Vera Barrios BS, Huilca Huilca JC, et al. Cr³⁺ Doping Effects on Structural, Optical, and Morphological Characteristics of BaTiO₃ Nanoparticles and Their Bioactive Behavior. Crystals 2024;14(11).
 56. Palneedi H, Peddigari M, Hwang GT, Jeong DY, Ryu J. High-Performance Dielectric Ceramic Films for Energy Storage Capacitors: Progress and Outlook. Adv Funct Mater 2018;28(42):1–33.
 57. Kumar BP, Kumar HH, Kharat DK. Effect of porosity on dielectric properties and microstructure of porous PZT ceramics. Mater Sci Eng B 2006;127(2–3):130–133.
 58. Zeng D, Dong Q, Nong P, et al. Achieving high energy storage density in BaTiO₃-(Bi_{0.5}Li_{0.5})(Ti_{0.5}Sn_{0.5})O₃ lead-free relaxor ferroelectric ceramics. J Alloys Compd 2023;937:168455. Available from: <https://doi.org/10.1016/j.jallcom.2022.168455>
 59. Chchiyai Z, Bachraoui F El, Lamhani M, et al. Beneficial effects of Bi/Co co-doping on the structural, optical, dielectric, and electrical properties of Ba_{1-x}Bi_xTi_{1-x}Co_xO₃ perovskite ceramics. J Alloys Compd 2025;1011(October 2024).

60. Yang F, Yang L, Ai C, et al. Tailoring bandgap of perovskite BaTiO₃ by transition metals co-doping for visible-light photoelectrical applications: A first-principles study. *Nanomaterials* 2018;8(7).
61. Xu L, Yuan S, Zeng H, Song J. A comprehensive review of doping in perovskite nanocrystals/quantum dots: evolution of structure, electronics, optics, and light-emitting diodes. *Mater Today Nano* 2019;6.
62. Liu S, Xiang H, Gong XG, Yang JH. Intrinsic Breakdown Strength: Theoretical Derivation and First-Principles Calculations. *Phys Rev Lett* 2025;134(8).
63. Trainer M. Ferroelectrics and the Curie-Weiss law. *Eur J Phys* 2000;21(5):459–464.
64. Zhang X, Xu R, Gao X, et al. Negative-pressure enhanced ferroelectricity and piezoelectricity in lead-free BaTiO₃ ferroelectric nanocomposite films. *J Mater Chem C* 2020;(24).
65. Chen X, Qin H, Liu Y, et al. Interfacial origin of dielectric constant enhancement in high-temperature polymer dilute nanocomposites. *Appl Phys Lett* [homepage on the Internet] 2023;122(21). Available from: <https://doi.org/10.1063/5.0143938>
66. Thakur Y, Zhang T, Jacob C, et al. Enhancement of the dielectric response in polymer nanocomposites with low dielectric constant fillers. *Nanoscale* 2017;9(31):10992–10997. Available from: <https://xlink.rsc.org/?DOI=C7NR01932G>
67. Wendari TP, Rizki A, Zulhadjri, et al. Structure, ferroelectric, magnetic, and energy storage performances of lead-free Bi₄Ti_{2.75}(FeNb)_{0.125}O₁₂ Aurivillius ceramic by doping Fe³⁺ ions extracted from Padang beach sand. *Case Stud Chem Environ Eng* 2024;9(October 2023):100679. Available from: <https://doi.org/10.1016/j.cscee.2024.100679>
68. Li X, Xing J, Wang F, et al. Supplementary data Realizing high energy density and efficiency simultaneously in. 2022;
69. Gilbert DA, Murray PD, Rojas J De, Dumas RK, Davies JE, Liu K. Reconstructing phase-resolved hysteresis loops from first-order reversal curves. *Sci Rep* 2021;11(1):1–11. Available from: <https://doi.org/10.1038/s41598-021-83349-z>

