

DAFTAR PUSTAKA

1. Christiano V. *Pembangkit Listrik Tenaga Nuklir*. Depok. Pustaka LP3ES; **2020**.
2. Azhar, Lathifah MF, Doyan A, Susilawati, Hudha LS. Digital-based thermoelectric generator. *J Phys Conf Ser*. **2022**;2165(1). doi:10.1088/1742-6596/2165/1/012033
3. Park D, Ju H, Kim J. One-pot fabrication of Ag–SrTiO₃ nanocomposite and its enhanced thermoelectric properties. *Ceram Int*. **2019**;45(14):16969-16975. doi:10.1016/j.ceramint.2019.05.245
4. He X, Nomoto S, Komatsu T, et al. Hydride Anion Substitution Boosts Thermoelectric Performance of Polycrystalline SrTiO₃ via Simultaneous Realization of Reduced Thermal Conductivity and High Electronic Conductivity. *Adv Funct Mater*. **2023**;33(28). doi:10.1002/adfm.202213144
5. Zhao J, Gao J, Li W, et al. A combinatory ferroelectric compound bridging simple ABO₃ and A-site-ordered quadruple perovskite. *Nat Commun*. **2021**;12(1):1-9. doi:10.1038/s41467-020-20833-6
6. Putri YE. SrTiO₃ Nanokubus: Sintesis, Kontrol Morfologi dan Sifat Termoelektrik (Tinjauan). *Akta Kim Indones*. **2021**;6(1):83. doi:10.12962/j25493736.v6i1.9167
7. Andriani N. *Pengaruh Tert-Butilamin (TBA) Terhadap Morfologi SrTiO₃ Nanokubus Yang Disintesis Dengan Metode Solvothermal Dan Sifat Hantaran Listriknya*. Universitas Andalas; **2020**.
8. Pertiwi PV. *Sintesis Nanokomposit Ag-SrTiO₃ Menggunakan Ekstrak Daun Gambir (Uncaria gambir Roxb) dan Sifat Hantaran Listriknya*. Universitas Andalas; **2024**.
9. Kasim S, Taba P, Ruslan, Romianto. Sintesis Nanopartikel Perak Menggunakan Ekstrak Daun Eceng Gondok (*Eichornia crassipes*) Sebagai Bioreduktor. *J Ris Kim*. **2020**;6(2):5. doi:10.1016/j.jphotobiol.2018.05.007
10. Rauf A, Rahmawaty, Siregar AZ. The Condition of Uncaria Gambir Roxb. as One of Important Medicinal Plants in North Sumatra Indonesia. *Procedia Chem*. **2015**;14:3-10. doi:10.1016/j.proche.2015.03.002
11. Jumini S. *Fisika Inti*. CV. Mangku Bumi Media; **2018**.
12. Zuhail. *Knowledge and Innovation Platform Kekuatan Daya Saing*. PT Gramedia Pustaka Utama; **2010**.
13. James G. *Introduction of Nanotechnology*. Gilad James Mystery School; **2023**.
14. Nursanti, A. M. Syafira A. P. Studi Literatur: Perkembangan Nanomaterial. *Berk Fis*. **2022**;25(3):1.
15. Yang Z. Research of Biosensors Based on Nanomaterials. *Highlights Sci Eng Technol*. **2024**;102:118-123. doi:10.54097/zzx7dz78
16. Huang J, Liu Y, Yan P, Gao J, Fan Y, Jiang W. Mechanically exfoliated MoS₂ nanoflakes for optimizing the thermoelectric performance of SrTiO₃-based ceramic composites. *J Mater*. **2022**;8(4):790-798. doi:10.1016/j.jmat.2022.02.002
17. Lee S, Jung SJ, Park GM, et al. Grain boundary engineering strategy for simultaneously reducing the electron concentration and lattice thermal conductivity in n-type Bi₂Te_{2.7}Se_{0.3}-based thermoelectric materials. *J Eur Ceram Soc*. **2023**;43(8):3376-3382. doi:10.1016/j.jeurceramsoc.2023.02.017
18. Shenoy US, Bhat DK. Enhanced thermoelectric properties of vanadium doped SrTiO₃: A resonant dopant approach. *J Alloys Compd*. **2020**;832:154958. doi:10.1016/j.jallcom.2020.154958
19. Khan JS, Akram R, Shah AA, et al. Enhanced zT due to non-stoichiometric induced defects for bismuth telluride thermoelectric materials. *Kuwait J Sci*. **2023**;50(3):231-237. doi:10.1016/j.kjs.2023.05.005
20. Liu D, Zhang Y, Kang H, Li J, Chen Z, Wang T. Direct preparation of La-doped SrTiO₃ thermoelectric materials by mechanical alloying with carbon burial sintering. *J Eur Ceram Soc*. **2018**;38(2):807-811. doi:10.1016/j.jeurceramsoc.2017.09.022
21. El-Sadek MH, Farahat MM, Ali HH, Zaki ZI. Synthesis of SrTiO₃ from celestite and rutile by mechanical activation assisted Solid-State reaction. *Adv Powder Technol*. **2022**;33(5):103548. doi:10.1016/j.appt.2022.103548
22. Pellegrino F, Sordello F, Mino L, et al. Polyethylene glycol as shape and size controller for the hydrothermal synthesis of srtio3 cubes and polyhedra. *Nanomaterials*. **2020**;10(9):1-12. doi:10.3390/nano10091892

23. Safitri A, Ramadhan M, Sabarudin A. Preparation of antibacterial iron-based nanoparticles using ruellia Tuberosa L. Root extracts as bioreductor. *Rasayan J Chem.* **2020**;13(1):610-620. doi:10.31788/RJC.2020.1315511
24. Wahab AW, Karim A, La Nafie N, Satrimafitrah P, Triana, Sutapa IW. Production of the nanoparticles using leaf of Muntingia calabura L. as bioreductor and potential as a blood sugar nanosensor. *J Phys Conf Ser.* **2019**;1242(1). doi:10.1088/1742-6596/1242/1/012004
25. Handayani W, Ningrum AS, Imawan C. The Role of pH in Synthesis Silver Nanoparticles Using Pometia pinnata (Matoa) Leaves Extract as Bioreductor. *J Phys Conf Ser.* **2020**;1428(1). doi:10.1088/1742-6596/1428/1/012021
26. Elisma N, Labanni A, Emriadi, Rilda Y, Asrofi M, Arief S. Green synthesis of copper nanoparticles using Uncaria gambir roxb. Leaf extract and its characterization. *Rasayan J Chem.* **2019**;12(4):1752-1756. doi:10.31788/RJC.2019.1245347
27. Arief S, Nasution FW, Zulhadjri, Labanni A. High antibacterial properties of green synthesized gold nanoparticles using Uncaria gambir Roxb. leaf extract and triethanolamine. *J Appl Pharm Sci.* **2020**;10(8):124-130. doi:10.7324/JAPS.2020.10814
28. Almarashi JQM, Gadallah AS, Shaban M, et al. Quick methylene blue dye elimination via SDS-Ag nanoparticles catalysts. *Sci Rep.* **2024**;14(1):1-16. doi:10.1038/s41598-024-65491-6
29. Aïssa B, Ali A. Piezo inkjet formation of Ag nanoparticles from microdots arrays for surface plasmonic resonance. *Sci Rep.* **2024**;14(1):1-13. doi:10.1038/s41598-024-55188-1
30. Foti A, Clépoint B, Fraix A, D'Urso L, De Bonis A, Satriano C. A simple approach for CTAB-free and biofunctionalized gold nanorods to construct photothermal active nanomedicine for potential in vivo applications in cancer cells and scar treatment. *Front Mater.* **2024**;11(June):1-12. doi:10.3389/fmats.2024.1381176
31. Chamorro AF, Lerma TA, Palencia M. CTAB Surfactant Promotes Rapid, Efficient, and Simultaneous Removal of Cationic and Anionic Dyes through Adsorption on Glycerol/Citrate Polyester. *Water (Switzerland).* **2024**;16(13). doi:10.3390/w16131860
32. Duan J, Chen B, Zhang Y, Cai P, Wang F. Enhanced adsorption of Cr(VI) from aqueous solutions by CTAB-modified schwertmannite: Adsorption performance and mechanism. *Chem Eng Res Des.* **2024**;208(August):464-474. doi:10.1016/j.cherd.2024.07.013
33. Ma Q, Mimura KI, Kato K. Diversity in size of barium titanate nanocubes synthesized by a hydrothermal method using an aqueous Ti compound. *CrystEngComm.* **2014**;16(36):8398-8405. doi:10.1039/c4ce01195c
34. Shang Y, Duan Z, Luo F. Preparation and characterization of fibrous MnZn ferrite via a water-assisted solvothermal method. *J Magn Magn Mater.* **2023**;571(October 2022):170563. doi:10.1016/j.jmmm.2023.170563
35. Dravecz G, Kolonits T, Péter L. Formation of LiNbO₃ Nanocrystals Using the Solvothermal Method. *Crystals.* **2023**;13(1). doi:10.3390/cryst13010077
36. Fatimah S, Ragadhita R, Al Husaeni DF, Nandiyanto ABD. How to Calculate Crystallite Size from X-Ray Diffraction (XRD) using Scherrer Method. *ASEAN J Sci Eng.* **2022**;2(1):65-76. doi:10.17509/ajse.v2i1.37647
37. Soni P, Vyas S. Studies on X-Ray Diffraction (XRD) patterns of Soya-hulls for Interpretation of Crystallinity Index. *Asian J Res Chem.* **2022**;15(June):225-227. doi:10.52711/0974-4150.2022.00040
38. Nandiyanto ABD, Oktiani R, Ragadhita R. How to read and interpret ftir spectroscopy of organic material. *Indones J Sci Technol.* **2019**;4(1):97-118. doi:10.17509/ijost.v4i1.15806
39. Yunanto A, Iskandar, Utama AA, Muthmainnah N, Suhartono E. Early detection of neonatal sepsis using fourier transformation infrared spectroscopy (FTIR). *AIP Conf Proc.* **2019**;2108(June):1-8. doi:10.1063/1.5110001
40. Fadlilmoula A, Pinho D, Carvalho VH, Catarino SO, Minas G. Fourier Transform Infrared (FTIR) Spectroscopy to Analyse Human Blood over the Last 20 Years: A Review towards Lab-on-a-Chip Devices. *Micromachines.* **2022**;13(2). doi:10.3390/mi13020187
41. Deidda F, Bozzi Cionci N, Cordovana M, et al. Bifidobacteria Strain Typing by Fourier

- Transform Infrared Spectroscopy. *Front Microbiol.* **2021**;12(September):1-10. doi:10.3389/fmicb.2021.692975
42. Ran S, Shen J, Hu Z, Long G. Inversion of TEM Responses in Tunnel with Steel Infrastructure and Its Application. *Minerals.* **2024**;14(8). doi:10.3390/min14080802
 43. Pu Y, Niu Y, Wang Y, Liu S, Zhang B. Statistical morphological identification of low-dimensional nanomaterials by using TEM. *Particuology.* **2022**;61:11-17. doi:10.1016/j.partic.2021.03.013
 44. Jumardin, maddu, santoso I. (Carbon Dots) Dengan Metode Uv-Vis Drs (Ultra Violet-*J Fis.* **2022**;9(1):1-15. doi:10.24252/jft.v9i2.28815
 45. Osman NS, Sapawe N. Study on the optical bandgap of oil palm frond ash (OPFA) treated via acid leaching treatment. *Mater Today Proc.* **2020**;31:402-405. doi:10.1016/j.matpr.2020.07.203
 46. Andrade PHM, Volklinger C, Loiseau T, Tejeda A, Hureau M, Moissette A. Band gap analysis in MOF materials: Distinguishing direct and indirect transitions using UV-vis spectroscopy. *Appl Mater Today.* **2024**;37(February):102094. doi:10.1016/j.apmt.2024.102094
 47. Khairiyati L, Azzumar M, Munir M, Syahadi M. Inductance Validation of Lcr Meter After Recalibration. *Instrumentasi.* **2021**;45(2):163. doi:10.31153/instrumentasi.v45i2.258
 48. Satheesh SPTUVM; SP. Microcontroller based LCR meter. *Int Res J Eng Technol.* **2016**;3(6):1. doi:10.1016/0141-9331(96)01095-2
 49. Putri YE, Saputri M, Anwar R, et al. The Role of Capping Agent on the Morphology of SrTiO₃ Hollow Sphere Built by Assembly of Nanocubes under Solvothermal Conditions. *J Kim Val.* **2019**;5(1):124-132. doi:10.15408/jkv.v5i1.9972
 50. Putri YE, Faradilla H, Satria D, Wellia DV. Facile synthesis of lanthanum-doped SrTiO₃ nanocubes mediated by cetyltrimethylammonium bromide and tert-butylamine under solvothermal condition and their tunable electrical properties. *Chim Techno Acta.* **2023**;10(4):1-8. doi:10.15826/chimtech.2023.10.4.07
 51. Labanni, A., Zulhadjri, Z., Handayani, D., Ohya Y. The effect of monoethanolamine as stabilizing agent in Uncaria gambir Roxb. mediated synthesis of silver nanoparticles and its antibacterial activity. *J Dispers Sci Technol.* **2019**;41(10):1-8.
 52. Putri YE, Alvionita A, Yanti RR, Wellia DV. Morphology-Controlled Synthesis Of SrTiO₃ Nanocube By Capping Agent-Assisted Solvothermal Method. *Molekul.* **2016**;11(1):25. doi:10.20884/1.jm.2016.11.1.191
 53. Jubu PR, Obaseki OS, Nathan-Abutu A, Yam FK, Yusof Y, Ochang MB. Dispensability of the conventional Tauc's plot for accurate bandgap determination from UV-vis optical diffuse reflectance data. *Results Opt.* **2022**;9(July):100273. doi:10.1016/j.rso.2022.100273
 54. Gao Y, Xu B, Cherif M, et al. Atomic insights for Ag Interstitial/Substitutional doping into ZnIn₂S₄ nanoplates and intimate coupling with reduced graphene oxide for enhanced photocatalytic hydrogen production by water splitting. *Appl Catal B Environ.* **2020**;279(July). doi:10.1016/j.apcatb.2020.119403