

DAFTAR PUSTAKA

- Bala, W., Zorenko, Y., Savchyn, V., & Voznyak, T. (2013). *Optical And Electrical Properties Of Zno Thin Films Grown By Sol-Gel Method Optical And Electrical Properties Of Zno Thin Films Grown By Sol-Gel Method*. August 2014. <https://doi.org/10.4028/www.scientific.net/SSP.200.14>
- Banupriya, L., Emerson, R. N., & Josemin Bala, G. (2025). Low Cost Ni-Based Electrodeposited Pn-Junction Thermoelectric Device For Thermoelectric Sensor Application. *Solid-State Electronics*, 225. <https://doi.org/10.1016/j.sse.2025.109065>
- Bizzy, I. (2022). *Buku Ajar Modul Thermoelektrik*. Noer Fikri Offset. <https://repository.unsri.ac.id/93074/1/2021> BUKU TERMOELEKTRIK.Pdf
- Carofiglio, M., Laurenti, M., Vighetto, V., Racca, L., Barui, S., Garino, N., Gerbaldo, R., Laviano, F., & Cauda, V. (2021). *Iron-Doped Zno Nanoparticles As Multifunctional Nanoplatfoms For Theranostics*.
- Cheng, Y., Brahma, S., Wu, S., Huang, J., & Lee, A. C. H. (2025). *Crystal Structure Evolution Of Piezoelectric Fe-Doped Zno Film By Magnetron Co-Sputtering Technique*.
- Choi, T., Jung, E., Yoo, J., Lee, H., & Yoon, S. (2025). *I – V Characteristics And Electrical Reliability Of Metal – Si X N Y – Metal Capacitors As A Function Of Nitrogen Bonding Composition*. Cd.
- Duma, Z., Sihvonen, T., Havukainen, J., & Reinikainen, V. (2022). Optimizing Energy Dispersive X-Ray Spectroscopy (EDS) Image Fusion To Scanning Electron Microscopy (SEM) Images. *Micron*, 163(September), 103361. <https://doi.org/10.1016/j.micron.2022.103361>
- Elvaswer, & Mardiah. (2017). *KARAKTERISASI I-V SEMIKONDUKTOR HETEROKONTAK Cuo / Zno (Tio 2) SEBAGAI SENSOR GAS HIDROGEN*. 9(1), 7–14.

- Fernandes, M. C., Pietrzycka, K., & Koprowicz, A. (2022). *The Pulp Stones : Morphological Analysis In Scanning Electron Microscopy And Spectroscopic Chemical Quantification*. 1–17.
- Fitriyani, V., Prayitno, T. B., & Sugihartono, I. (2025). Thermoelectric Properties Of Zno Wurtzite Structure By Density Functional Theory. *Journal Of Physics: Conference Series*, 3034(1), 012010. <https://doi.org/10.1088/1742-6596/3034/1/012010>
- García, J. A., Stern, D., Madsen, K., Smith, M., Grefenstette, B., Ajello, M., Alford, J., Annur, A., Bachetti, M., Baloković, M., Beckmann, R. S., Bianchi, S., Biccari, D., Boorman, P., Brightman, M., Buchner, J., Bulbul, E., Chen, C., Civano, F., ... Martin-Carrillo, A. (2024). *The High Energy X-Ray Probe (HEX-P)*: Science Overview. November, 1–19. <https://doi.org/10.3389/fspas.2024.1471585>
- Gong, H., Geng, C., Wang, R., Wang, S., & Jiao, T. (2024). Applied Surface Science Shell-Fe / Zno : A Recyclable Catalyst With Fe-Doped Zno Shell Structure For Photocatalytic Oxidative Degradation Of Tetracycline Hydrochloride. *Applied Surface Science*, 655(February), 159653. <https://doi.org/10.1016/j.apsusc.2024.159653>
- Hiremath, M. V., Momin, N., Kangralkar, M. V., Manjanna, J., Hegde, B. G., & Byalollikar, D. G. (2024). Synthesis And Characterization Of Fe - Doped Zno Films For Enhanced - NO₂ Gas - Sensing Applications. *Journal Of The Korean Physical Society*, March 2025. <https://doi.org/10.1007/S40042-024-01173-W>
- Issue, V., Menggunakan, D., & Xrd, X. D. (2020). *Indonesian Physical Review*. 3(1).
- Khiari, M., Gilliot, M., Lejeune, M., Lazar, F., & Hadjadj, A. (2022). *Preparation Of Very Thin Zinc Oxide Films By Liquid Deposition Process : Review Of Key Processing Parameters*. 1–24.

- Kinemuchi, Y., Mikami, M., Kobayashi, K., Watari, K., & Hotta, Y. (2010). Thermoelectric Properties Of Nanograined Zno. *Journal Of Electronic Materials*, 39(9), 2059–2063. <https://doi.org/10.1007/S11664-009-1009-7>
- Li, Y J., Li, R., Jia, Y., & Zhang, Z. (2020). Prediction Of $I - V$ Characteristic Curve For Photovoltaic Modules Based On Convolutional. 20(7), 2119. <https://doi.org/10.3390/S20072119>
- Li, W., Du, C., Liang, L., & Chen, G. (2025). Cement-Based Thermoelectric Materials, Devices And Applications. In *Nano-Micro Letters* (Vol. 18, Issue 1). Springer Nature Singapore. <https://doi.org/10.1007/S40820-025-01866-2>
- May, A. F., & Snyder, G. J. (2018). Introduction To Modeling Thermoelectric Transport At High Temperatures. *Thermoelectrics And Its Energy Harvesting: Materials, Preparation, And Characterization In Thermoelectrics*, 11-1-11–18. <https://doi.org/10.1201/B11869-15>
- Miti, Ž., Stoli, A., Stojanovi, S., Najman, S., Ignjatovi, N., Nikoli, G., & Trajanovi, M. (2017). Instrumental Methods And Techniques For Structural And Physicochemical Characterization Of Biomaterials And Bone Tissue : A Review. 79, 930–949. <https://doi.org/10.1016/J.Msec.2017.05.127>
- Mohammed, A., & Abdullah, A. (2019). *Scanning Electron Microscopy (SEM) : A Review Scanning Electron Microscopy (SEM) : A Review. January.*
- Ñ, A. Gomez-Nu´, Ez, Alonso-Gil, S., C. Lopez´, Roura, P., & Vila, A. (2017). Role Of Ethanolamine On The Stability Of A Sol – Gel Zno Ink. 23839–23846. <https://doi.org/10.1021/Acs.Jpcc.7b09935>
- Nurdiyanto, M. (2022). APPLICATIONS OF SCANNING ELECTRON MICROSCOPY- ENERGY DISPERSIVE X-RAY SPECTROSCOPY (SEM-EDS) IN EARTH SCIENCES. 1–6.
- Sahai, A., Kumar, Y., Agarwal, V., & Goswami, N. (2014). Doping Concentration Driven Morphological Evolution Of Fe Doped Zno Nanostructures. 116(16). <https://doi.org/10.1063/1.4900721>

- Sharma, P. K., Senguttuvan, T. D., Sharma, V. K., & Chaudhary, S. (2021). Revisiting The Thermoelectric Properties Of Lead Telluride. *Materials Today Energy*, 21, 100713. <https://doi.org/10.1016/j.mtener.2021.100713>
- Shi, X. L., Li, N. H., Li, M., & Chen, Z. G. (2025). Toward Efficient Thermoelectric Materials And Devices: Advances, Challenges, And Opportunities. *Chemical Reviews*, 125(16), 7525–7724. <https://doi.org/10.1021/acs.chemrev.5c00060>
- Srinivasulu, T., Saritha, K., & Reddy, K. T. R. (2017). Synthesis And Characterization Of Fe-Doped ZnO Thin Films Deposited By Chemical Spray Pyrolysis. *Modern Electronic Materials*, 3(2), 76–85. <https://doi.org/10.1016/j.moem.2017.07.001>
- Sugihartono, I., Soegijono, B., Handoko, E., Tiam, T. S., & Umar, A. A. (2023). Structure And Optical Properties Of La-Doped ZnO Thin Films At Room Temperature. *Processing And Application Of Ceramics*, 17(2), 107–112. <https://doi.org/10.2298/PAC2302107S>
- Sulistiyono. (2012). Sulistiyono. *Majalah Ilmiah PPSDM Migas*, 02(2), 47–56.
- Sumiyyah, S., Jamil, A. M., Zhao, Y., Yusof, E. N. M., Schneider, R., Abdul Rahman Mohamed, Y. K., Mori, K., & Yamashita, H. (2025). Construction Of Fe₃O₄/ZnO Heterostructure Photocatalysts Derived From Fe-Doped ZIF-8 For Enhanced Photocatalytic Degradation Of Tetracycline And Hydrogen Peroxide Production †. 8267–8278. <https://doi.org/10.1039/D5nj00407a>
- Sutanto, H., Alkian, I., Mukholit, M., Nugraha, A. A., & Hidayanto, E. (2021). Analysis Of Fe-Doped ZnO Thin Films For Degradation Of Rhodamine B , Methylene Blue , And Escherichia Coli Under Visible Light Analysis Of Fe-Doped ZnO Thin Films For Degradation Of Rhodamine B , Methylene Blue , And Escherichia Coli Under Visible Light.
- Tokeser, E. A., & Ozturk, O. (2023). Estimation Of Microstructural Parameters By Williamson–Hall, Halder–Wagner, And Size–Strain Plot Methods And

- Magnetic Properties Of (Cu/Mn) Co-Doped ZnO Nanoparticles. *Journal Of Materials Science: Materials In Electronics*, 34(31), 1–14. <https://doi.org/10.1007/S10854-023-11402-W>
- Üzar, N. (2025). Effect Of 15% Fe Doping On The Structural, Optical, Electrical, And Thermoelectric Properties Of ZnO Thin Films. *Physica B: Condensed Matter*, 704. <https://doi.org/10.1016/J.Physb.2025.417045>
- Wang, J., Shen, W., Zhang, X., Li, J., & Ma, J. (2021). *Preparation And Characterization Of (Al, Fe) Codoped ZnO Films Prepared By Sol–Gel*.
- Zegadi, C., Adnane, M., Chaumont, D., Haichour, A., Kaddour, A. H., Lounis, Z., & Ghaffor, D. (2020). *Effect Of Fe-Incorporation On Structural And Optoelectronic Properties Of Spin Coated P/N Type ZnO Thin Films* C. 12(3), 1–6. [https://doi.org/10.21272/Jnep.12\(3\).03023](https://doi.org/10.21272/Jnep.12(3).03023)
- Zeghdar, K., Dehimi, L., Saadoune, A., & Sengouga, N. (2015). Inhomogeneous Barrier Height Effect On The Current – Voltage Characteristics Of An Au / N-Inp Schottky Diode Inhomogeneous Barrier Height Effect On The Current – Voltage Characteristics Of An Au / N-Inp Schottky Diode. *Journal Of Semiconductors*. <https://doi.org/10.1088/1674-4926/36/12/124002>
- Zhu, X., Zuo, Z., Wang, W., Jia, B., Liu, R., Yin, Q., & Zhang, M. (2025). Performance Comparison And Optimization Of Thermoelectric Generator Systems With/Without Stepped-Configuration. *Energy*, 335(August), 137924. <https://doi.org/10.1016/J.Energy.2025.137924>
- Zhu, Y., Peng, Y., & Du, X. (2024). Optimization Of Thermoelectric Properties For Microwave Sintered. *Ceramics International*, 50(21PC), 43452–43457. <https://doi.org/10.1016/J.Ceramint.2024.08.196>