

DAFTAR PUSTAKA

- Eva Novarini dan Tatang Wahyudi. (2011). Sintesis Nanopartikel Seng Oksida (ZnO) Menggunakan Surfaktan sebagai Stabilisator dan Aplikasinya pada Pembuatan Tekstil Anti Bakteri. *Jurnal Ilmiah Arena Tekstil*, 81-87.
- Abdel-wahab MS, Jilani A, Yahia IS, dan Al-ghamdi AA. (2016). Enhanced the photocatalytic activity of Ni-doped ZnO thin films: Morphological optical and XPS analysis. *Superlattices and Microstructures*.
- Abdullah M, Virgus Y, Nirmin dan Khairurrijal. (2008). Review : Sintesis Nanomaterial. *Jurnal Nanosains & Nanoteknologi*, 2 (1).
- Alias,S.S., A.B. Ismail, dan A.A. Mohamad. (2010). Effect of ph on zno nanoparticle properties synthesized by sol-gel centrifugation. 231—237.
- Alsaad. (2014). Structural electronic and magnetic properties of Fe Co Mn doped GaN and ZnO diluted magnetic semiconductors. *Physics B. Physics of Condensed Matter*, 1-9.
- Ardiansyah, N. (2015). *Rancang Bangun pH Meter Air di Utilities Refinery Unit IV Cilacap PT Pertamina (Persero) Berbasis Arduino Uno R3*. Purwokerto: Universitas Muhammadiyah Purwokerto.
- Beiser, A. (1995). Concepts of Modern Physics.
- David, S. (2004). *Bionanotechnology: lessons from nature*. New york: wiley.
- Dewi AK, Aryanto D, dan Nurbaiti U. (2020). Pengaruh perlakuan panas terhadap sifat optik lapisan tipis ZnO di atas ITO. *Jurnal Fisika*, 10 (1), 30-36.
- Elmira Solati, Laya Dejam, dan Davoud Dorrnian. (2014). Effect of laser pulse energy and wavelength on the structure, morphology and optical properties of ZnO nanoparticles. *Optics & Laser Technology*, 26-32.
- Elzey, S. (2010). *Applications and physicochemical characterization of nanomaterials in environmental, health, and safety studies*. Iowa: University of Iowa.

- Erniria Erniria, Motlan Motlan, Nurdin Siregar. (2021). Dye Sensitized Solar Cell (DSSC) menggunakan film tipis ZnO:Cu dengan variasi kecepatan putaran berbahan Dye buah karamunting.
- Fabbiyola, S., Kennedy, L.J., Ratnaji, T., Vijaya, J.J., Aruldoss, U., Bououdina, M. (2016). Effect Of Fe-doping on the Structural, Optical and Magnetic Properties of ZnO Nanostructures Synthesised By Co-precipitation Method. *Ceramics International*, 1588-1596.
- Fan JC, Ling CC, dan Xie Z. (2011). Fabrication and Characterization of As Doped p-Type ZnO Films Grown by Magnetron Sputtering. Optoelectronics. *Materials and Techniques*.
- Fatiatun. (2020). FABRICATION OF GRAPHENE OXIDE/ZINC OXIDE NANOCOMPOSITE THROUGH SPRAYING METHOD FOR SOLAR CELL APPLICATION. *ResearchGate*.
- Gayen RN dan Paul R. (2016). Nano-Structures dan Nano-Objects Phosphorous doping in vertically aligned ZnO nanorods grown by wet-chemical method. *Nano-Structures dan Nano-Objects*, 1-7.
- Gosseau. (2009). *INTRODUCTION TO XRF SPECTROSCOPY*. Retrieved from skynet: <http://users.skynet.be/>
- Habba, Y.G., Gnambodoe, M.C., Wang, Y.L. (2017). Enhanced Photocatalytic Activity of Iron-Doped ZnO Nanowires for Water Purification. *Appl. Sci*, 1-10.
- Husain, S. (2013). How to calculate the lattice strain? *ResearchGate*.
- Ilham, A. (2020). *Kelarutan dan Hasil Kali Kelarutan (KSP) – Tetapan, Hubungan dan Contoh*. Retrieved from soalkimia.com: <https://soalkimia.com/kelarutan-dan-hasil-kali-kelarutan/>
- Iwantono, Elvi Oktorina, Erman Taer, dan Rika Taslim. (2019). Karakterisasi Dan Penumbuhan Nanopartikel Zink-Oxide (ZnO) Di Atas Substrat Padat Dengan Metode Hidrotermal. *Prosiding Seminar Nasional dan Rapat Tahunan MIPA*, (pp. 510-517). Bogor.

- Jadhav S. R dan Khairnar U. P. (2012). Study of Optical Properties of Co-evaporated PbSe Thin Films. *Scholars Research Library*, 4(1), 169-177.
- Jagadish, C. dan Pearton, S. (2006). Zinc Oxide Bulk, Thin Film and Nanostructures. *Elsevier*.
- Jamaluddin, E. P. (2018). IDENTIFIKASI KANDUNGAN UNSUR LOGAM BATUAN MENGGUNAKAN METODE XRF (X-RAY FLOURESCENCE) (STUDI KASUS: KABUPATEN BUTON). *Jurnal Geoelebes*, 2(2), 47-52.
- Jeevanandam J, Barhoum A, Chan YS, Dufrense A, dan Danquah MK. (2018). Review on Nanoparticles and Nanostructured materials : history, sources, toxicity and regulations. *Beilstein Journal of Nanotechnology*, 1050-1074.
- Jeremy B. Vines, Jee-Hyun Yoon, Na-Eun Ryu, Dong-Jin Lim, dan Hansoo Park. (2019). Gold nanoparticle enhanced cancer photothermal therapy. *Frontiers in Chemistry*, 7.
- Kolodziejczak A dan Jesionowski T. (2014). Zinc oxide-from synthesis to application: A review *Materials*. 7 (4), 2833-2881.
- Lie, H. (2017). *X-Ray Fluorescence Spectrometer (XRF)*. Retrieved from adoc.pub: <https://adoc.pub/x-ray-fluorescence-spectrometer-xrf.html>
- Lubis, R. U. (2017). Sintesis dan Karakterisasi Pertumbuhan Nanopartikel ZnO dengan Metode Sol-Gel. *Paidagogo*, 72-81.
- Matsumoto. (2001). *Science*. 854.
- Mega, A. P., Annisa, K.M., Muhammad, I.A., Elsa, K., Julia, P., dan Yulli, U.O. (2017). *Pengertian semikonduktor*. Retrieved from hozir.org: <https://hozir.org/pengertian-semikonduktor.html>
- Mohd. Shkir, Mona Kilany, dan I.S. Yahia. (2017). Facile microwave-assisted synthesis of tungsten-doped hydroxyapatite nanorods: A systematic structural, morphological, dielectric, radiation and microbial activity studies. *Ceramics International*, 43(17), 14923-14931.

- Nemiwal M, Zhang TC dan Kumar D. (2021). Recent progress in g-C₃N₄ TiO₂ and ZnO based photocatalysts for dye degradation: Strategies to improve photocatalytic activity. *Science of the Total Environment*.
- Nugroho, P. (2004). Devais Mikroelektronika ZnO. *Teknik Elektro UGM*.
- Nurul Rosyidah, Sri Yani Purwaningsih, dan Darminto. (2009). Sintesis Nanopartikel ZnO dengan Metode Kopesipitasi. *Jurnal Teknik Pomits*, 1-7.
- PANalytical. (2009). *X-ray Fluorescence Spectrometer*. Retrieved from panalytical.com: <http://www.panalytical.com/index>
- Paulina, B. (2010). Forming Methods and Properties of Final Elements. *Ceramic Materials*.
- Purnama, A. (2013). *Sintesis Ni-TiO₂ dengan metode sol-gel dan uji aktivitasnya untuk dekomposisi air*. Semarang: Universitas Negeri Semarang.
- Puspitaningrum, T. (2017). *Penentuan band gap dan konduktivitas bahan semikonduktor lapisan tipis Sn(S_{0,8}Te_{0,2}) dan Sn(S_{0,6}Te_{0,4}) hasil preparasi dengan teknik evaporasi termal*. Universitas Negeri Yogyakarta.
- Rahmiyanti, F. (2012). *Pengaruh Temperatur Perlakuan Pasca-hidrotermal terhadap Karakteristik Nanopartikel ZnO dan Core-shell ZnO@SiO₂ untuk Aplikasi Pelabelan Sel*. Depok: Fakultas teknik Universitas Indonesia.
- Robina Ashraf, Saira Riaz, Syed Sajjad Hussain, dan Shahzad Naseem. (2015). Effect of pH on properties of ZnO nanoparticles. *Materials Today: Proceedings* 2, 5754-5759.
- Roza, L., Febrianti, Y., Iwan, S., dan Fauzia, V. (2020). The role of cobalt doping on the photocatalytic activity enhancement of ZnO nanorods under UV light irradiation. *Surfaces and Interfaces*, 11(1), 1-8.
- Seta, P. D. (2017). *Pengaruh Dopan Fe pada Sifat Kemagnetan Nanopartikel ZnO Hasil Kopesipitasi*.
- Seta, P. D. (2017). *Pengaruh dopan Fe pada sifat kemagnetan nanopartikel ZnO hasil kopesipitasi*. Surabaya: Departemen Fisika, Institut Teknologi Sepuluh Nopember.

- Setiawan, A. (2018). *Instrument & Biomolecular Technique Spectrofothometry*.
- Setiono, L dan A. Hadyana Pudjaatmaka. (1985). *Buku Teks Analisis Anorganik Kualitatif Makro dan Semimikro*. Jakarta: PT. Kalman Media Pustaka.
- Srinivasulu, T., Saritha, K., Ramakrishna, K.T., Reddy. (2017). Synthesis and Characterization of Fe-doped ZnO Thin Films Deposited by Chemical Spray Pyrolysis. *Modern Electronic Materials*.
- Sugihartono Iwan, Budi S, Fahdiran R, dan Handoko E. (2020). The effect of Al Element on Electrochemical Impedance of ZnO Thin Films. *Journal of Physics: Conference Series*.
- Sumantry, T. (2009). APLIKASI XRF UNTUK IDENTIFIKASI LEMPUNG PADA KEGIATAN PENYIMPANAN LESTARI LIMBAH RADIOAKTIF. *Prosiding Seminar Nasional Teknologi Pengelolaan, 13*. Pusat Teknologi Limbah Radioaktif-BATAN.
- Sutanto, H. d. (2015). Semikonduktor fotokatalis seng oksida dan titania (sintesis, deposisi dan aplikasi). *Telescope Semarang*.
- Thapa, S. (2016). *Defects and Ferromagnetism in Transition Metal Doped Zinc Oxide*. ResearchGate.
- Tsuzuki., T. (2009). Commercial Scale Production of Inorganic Nanoparticles. *International Journal of Nanotechnology*, 567-578.
- Vanaja A. dan Rao K. S. (2016). Effect of Co Doping on Structural and Optical Properties of Zinc Oxide Nanoparticles Synthesized by Sol-Gel Method. *Advances in Nanoparticles*, 83-89.
- Wahyudi, T. d. (2008). Aplikasi Nanoteknologi pada Bidang Tekstil. *Arena Tekstil*, 52-109.
- Witjaksono, A. (2011). *Karakterisasi nanopartikel Zno hasil presipitasi dengan perlakuan pengeringan, anil, dan pasca-hidrotermal*. Depok: Departemen Metalurgi dan Material, Universitas Indonesia.

Xia, C., Hu, C., Tian, Y.T., Chen, P., Wan, B., Xu, J. (2011). Room-temperature ferromagnetic properties of Fe-doped ZnO rod arrays. *Solid State Sciences*, 388-393.

