

DAFTAR PUSTAKA

- A. Roni, L. Fitriani, and L. Marliani, 2019. Penetapan kadar total flavonoid, fenolat, dan karotenoid, serta uji aktivitas antioksidan dari daun dan kulit batang tanaman kenitu (*Chrysophyllum cainito* L.), *J. Sains dan Kesehatan.*, vol. 2, no. 2, pp. 83–88.
- Abdullah, M., Khairurrijal. 2009. Karakterisasi Nanomaterial, *Jurnal Nanosains dan Nanoteknologi*, 2 : 1-9
- Ahmed, S., Ahmad, M., Swami, B., Ikram S. 2016. A Review on Plants Extract Mediated Synthesis of Silver Nanoparticles for Antimicrobial Applications: A Green Expertise., *J. Adv. Research*, 7:17-28.
- Aidil, R. (2014). Sintesis Nanokomposit ZnO/ZnFe₂O₄ dan Aplikasinya Untuk Degradasi Zat Warna Dengan Bantuan Cahaya Matahari (doctoral dissertation, universitas andalas).
- Aliah, H., Karlina, Y. 2015. Semikonduktor TiO₂ Sebagai Material Fotokatalis Berulan, *Jurnal ISTEK*. 9 : 185-203.
- Andayani, W., Sumartono, A., 2007. The Use of TiO₂-Zeolit as a Catalyst on the Degradation Process of Erionil Red Dye. *Indonesian Journal of Chemistry*. 7:141-146.
- Ayuningtyas, A. K. 2011. Reduksi Logam Berat Chromium (Vi) Dengan Fotokatalis Komposit TiO₂-SiO₂.
- B. Ma'arif, A. Aditama, R. Muti, W. Sidha Bhagawan, and R. Amiruddin, 2019. Metabolite profile of *Chrysophyllum cainito* L. leaves extract with solvent variation using UPLC-QTOF-MS/MS. *J. Tumbuh. Obat Indonesia*, vol. 12, no. 1, pp. 10–24
- Balasubramanian, M., & Murali, KR 2020. Biosintesis nanopartikel seng ferit (ZnFe₂O₄) menggunakan ekstrak bunga *nyctanthes arbor-tristis* dan aktivitas fotokatalitiknya.
- Barka, N., Qourza, S., Assabbane, A., Nounah, A., AitIchou, Y, 2008. Factors Influencing the Photocatalytic Degradation of Rhodamine B by TiO₂-Coated Non-Woven Paper. *Journal of Photochemistry and Photobiology A: Chemistry*, 195: 346-351.
- Bayahia, H. 2023. Highly efficient of green synthesis of nanostructured ZnFe₂O₄ photocatalysts by using *Ziziphus mauritiana* and *Salvadora persica* extracts for photocatalytic degradation of crystal violet under sunlight. *Journal of King Saud University-Science*, 102584.

- Chen, Dehong, Lu Cao, dan Fuzhi Huang. 2010. Synthesis of Monodisperse Mesoporous Titania Beads with Controllable Diameter, High Surface Areas, and Variable Pore Diameters (14–23 nm).
- Chung, I. M., Park, I., Seung-Hyun, K., Thiruvengadam M., Rajakumar, G., 2016. Plant- Mediated Synthesis of Silver Nanoparticles: Their Characteristic Properties and Therapeutic Applications., *Nanoscale Res. Let.*, 11:40-45.
- Dony, N., Aziz, H., dan Syukri, 2013, Studi Fotodegradasi Biru Metilen di Bawah Sinar matahari oleh ZnO-SnO₂ yang dibuat dengan Metoda Solid State Reaction, *Media Sains*, Vol. 5(1) : 66-74 10.
- Elemike, E.E., Onwudiwe, D.C., Ekennia, A.C., Ehiri, R.C., Nnaji, N.J. 2017. Phytosynthesis of silver nanoparticles using aqueous leaf extracts of *Lippia citriodora*: Antimicrobial, larvicidal and photocatalytic evaluations. *Materials Science and Engineering*. 75: 980-989.
- Elsa, F. 2015. Optimasi Transpor Metilen Biru Melalui Teknik Membran Cair Fasa Ruah (Doctoral dissertation, UPT. Perpustakaan Unand).
- Faradis, R. (2017). Sintesis dan karakterisasi material fotokatalis Seng Oksida (ZnO) menggunakan metode sonikasi untuk degradasi metilen biru (Doctoral dissertation, Universitas Islam Negeri Maulana Malik Ibrahim).
- Febiola, A. Biosintesis Dan Karakterisasi Nanopartikel ZnO Menggunakan Ekstrak Daun Ketapang (*Terminalia Catappa L*) Dan Uji Degradasi Metilen Biru.
- Febrialita, R., Stiadi, Y., Putri, Y. E., & Sofyan, N. 2021. Simbang Darah (*Iresine herbstii*) extract mediated hydrothermal method in the synthesis of zinc ferrite spinel nanoparticles used for photocatalysis and antibacterial applications. *Journal of Environmental Chemical Engineering*, 9 2, 105140.
- Gafton, E. V., Bulai, G., Caltun, O.F., 2016. Structural and Magnetic Properties of Zinc Ferrite Thin Films Irradiated by 90 KeV Neon Ions. *Appl. Surf. Sci.*, 379: 171-178.
- Galinetto, P., Albini, B., Bini, M., Mozzati, M. C., 2018., Raman Spectroscopy in Zinc Ferrites Nanoparticles., <http://dx.doi.org/10.5772/intechopen.72864>, University of Pavia., 224.
- Griffith, P., 1975. Chemical Infrared Fourier Transform Spectroscopy, Fourier, Hdamard, and Hilbert Transforms in Chemistry. John Wiley & Sons: New York., 387-420
- Hadriyati, A., Lestari, L., & Anggresani, L. 2021. Analisis Rhodamin B dalam Bolu Kukus yang Beredar di Kota Jambi dengan Metode

Spektrofotometri UV-Vis. *Jurnal Farmasi Dan Ilmu Kefarmasian Indonesia* Vol, 8(1), 16.

- Halliday, D., Resnick, R., 1989., *Fisika Jilid I: Alih Pantur Silaban dan Erwin Sucipto.*, Jakarta: Erlangga.
- I. Y. Ningsih, S. Zulaikhah, M. A. Hidayat, and B. Kuswandi, 2016. Antioxidant Activity of various kenitu (*Chrysophyllum Cainito* L.) leaves extracts from Jember, Indonesia. *Agric. Agric. Sci. Procedia*, vol. 9, pp. 378–385, 2016.
- Jamaluddin, K. 2010. X-RD (X-Ray Diffractions). Program Studi Pendidikan Fisika Fakultas Keguruan dan Ilmu Pendidikan. Universitas Haluoleo. Kendari.
- Karnaji, Nurhasanah, I. 2017. Photodegradation of Rhodamine B by Using ZnFe₂O₄ Nanoparticles Synthesized Through Precipitation Method., *IOP Conference Series: Materials Science and Engineering.*, 202: 012044.
- Kharissova O. V., Dias, H.V., Kharisov, B.I., Pérez, B.O., Pérez, V.M. 2013. The Greener Synthesis of Nanoparticles., *Trends Biotechnol.*, 31: 240-248.
- Khulud, R. H. 2016. Pembuatan dan karakterisasi karbon aktif dari tempurung kelapa (*Cocous nucifera* L.) sebagai adsorben zat warna metilen biru.
- Krisnawan, A. 2009. Karakterisasi Sampel Paduan Magnesium Jenis A29 1D dengan Berbagai Variasi Waktu Milling Menggunakan X-Ray Flouresence (XRF) dan Difrraction (XRD), *Skripsi*, Jakarta: Fakultas Sains dan Teknologi UIN Syarif Hidayatullah
- Linsebigler, A. L., Gangquan, L., Yates, J. T. 1995. Photocatalysis on TiO₂ Surface: Principles, Mechanism and Selected Result, *Chem. Rev.*, 95: 735-758.
- Liu, S. Q. 2012. Magnetic Semiconductor Nano-photocatalyst for The Degradation of Organic Pollutants. *Environmental Chemistry Letters.*, 10: 209-216.
- Ljubas, D., Curcovic, L., Dobrovic, S. 2010. Photocatalytic degradation of an Azo Dye by UV Irradiation at 254 and 365 nm. *Transactions of Famena XXXIV-1*
- Lumbantoruan, Magdalena. 1992. *Ensiklopedi Ekonomi, Bisnis, dan Manajemen*. Jakarta: PT Cipta Adi Pustaka. hlm. 404-405
- Maghfury, T. I., & Anggono, A. D, 2020. Analisis X-Ray Diffraction (Xrd) Pada Brazing Aluminium Seri 1000 Dan Stainless Steel Seri 304 Dengan

Penambahan Serbuk Tembaga (Doctoral dissertation, Universitas Muhammadiyah Surakarta).

- Mahmoud, M. A., Poncheri, A., Badr, Y., Abd El Wahed, M.G. 2009. Photocatalytic Degradation of Methyl Red Dye. *South African J. Sci.* 105: 299–303.
- Matinise, N., Kaviyarasu, K., Mongwaketsi, N., Khamlich, S., Kotsedi, L., Mayedwa, N., Maaza, M. 2018. Green Synthesis of Novel Zinc Iron Oxide (ZnFe₂O₄) Nanocomposite Via Moringa Oleifera Natural Extract for Electrochemical Applications., *Applied Surface Science.*, 18:169-4332.
- Mutmainnah, M., & Suharyadi, E. 2015. Sintesis nanopartikel zinc ferrite (ZnFe₂O₄) dengan metode kopresipitasi dan karakterisasi sifat kemagnetannya. *Spektra: Jurnal Fisika dan Aplikasinya*, 16(3), 62-66.
- N. Koffi, K. . Amoikon, M. . Tiebre, B. Kadja, and G. . Zirihi. 2009. Effect of aqueous extract of Chrysophyllum cainito leaves on the glycaemia of diabetic rabbits, *Pharm. Pharmacol*, vol. 3, no. 10, pp. 501–506.
- Nur'aini. 2021. Sintesis dan Karakterisasi ZnFe₂O₄ Menggunakan Ekstrak Buah Buni (*Antidesma bunius* L.) Sebagai Katalis Fotodegradasi Rhodamin-B. *Skripsi*. Fakultas Teknik Universitas Bangka Belitung, Bangka.
- Nurhasanah, I., Priyono, Karnaji dan Richardina, V., 2018. Fotokatalisis Nanopartikel Magnetis Zinc Ferrite dengan Penyinaran Cahaya UV dan Cahaya Tampak.. *Jurnal Rekayasa Kimia dan Lingkungan.*, 13: 33-39
- Patil, S. B., Naik, H. B., Nagaraju, G., Viswanath, R., & Rashmi, S. K. (2018). Sugarcane juice mediated eco-friendly synthesis of visible light active zinc ferrite nanoparticles: application to degradation of mixed dyes and antibacterial activities. *Materials Chemistry and Physics*, 212, 351-362.
- Pratiwi, S. W. 2022. Sintesis Dan Karakterisasi Fotokatalis Perak Fosfat (Ag₃PO₄) Menggunakan Metode Kopresipitasi Dan Aktivitas Degradasi Zat Warna Methylene Blue (Mb).
- Putri, S. A., Amanah, I. N., Susilawati, J., & Fabiani, V. A. 2021. Degradasi Zat Warna Rhodamin-B Menggunakan Green Fotokatalis Seng Ferit (ZnFe₂O₄)-Ekstrak Daun Pucuk Idat (*Cratogeomachra glaucum*). *Fullerene Journal of Chemistry*, 6(2), 135-142.
- Pouretedal, H. R., & Kadkhodaie, A. (2010). Synthetic CeO₂ nanoparticle catalysis of methylene blue photodegradation: kinetics and mechanism. *Chinese Journal of Catalysis*, 31(11-12), 1328-1334.
- Raileanu, M.; Crişan, M.; Niţoi, I.; Ianculescu, A.; Oancea, P.; Crişan, D.; Todan, L., 2013. TiO₂-Based Nanomaterials with Photocatalytic Properties for the

Advanced Degradation of Xenobiotic Compounds from Water. A Literature Survey. *Water Air Soil Pollut.* 224, 1548.

- S. Shailajan and D. Gurjar, 2014. Pharmacognostic and phytochemical evaluation of *Chrysophyllum cainito* Linn. Leaves,” *Int. J. Pharm. Sci. Rev. Res.*, vol. 26, no. 1, pp. 106.
- S. Zulaikhah, 2015. Uji aktivitas antioksidan, polifenol, dan flavonoid ekstrak air, aseton, etanol beberapa varian daun kenitu (*Chrysophyllum Cainito* L.) dari daerah jember. *Skripsi*, Universitas Jember: Jember.
- Sabrina, Q., 2011. Kajian Sifat Optis Pada Glukosa Darah., *Skripsi*., Program Studi Fisika Fakultas Sains dan Teknologi., Universitas Islam Negeri Syarif Hidayatullah., Jakarta.
- Sadiq, M.M.J., Nesaraj, A.S., 2015. Soft Chemical Synthesis and Characterization of BaWO₄ Nanoparticles for Photocatalytic Removal of Rhodamine B Present in Water Sample, *Journal of Nanostructure in Chemistry*., 5:45-54.
- Schechter, I., Barzilai, I.L., Bulatov, V, A.B., 1997. Online Remote Prediction of Gasoline Properties by Combined Optical Method, *Ana.Chim. Acta*, 339: 193-199.
- Septiana, Wilman. 2007. Sintesa Nanokristal Mesopori TiO₂ dengan Metode Sol-Gel.. *Teknik Fisika* : ITB.
- Silambarasu, A., Manikanda, A., Balakrishnan, K., 2017. Room-Temperature superparamagnetism and enhanced photocatalytic activity of Magnetically Reusable Spinel ZnFe₂O₄ Nanocatalysts, *Journal of Superconductivity and Novel Magnetism*. 30: 2631-2640
- Subagio, F.A.A., Nurhasanah, I., 2011, Sintesis Nanokomposit TiO₂-Carbon Nanotubes Menggunakan Metode Sol-Gel untuk Fotodegradasi Zat Warna Azo Orange 3R, *Jurnal Ilmu Pengetahuan dan Teknologi*, 29(2): 63-72.
- Subhashini, R., & Arjunan, S. 2018. Synthesis and physicochemical properties of bis (l-asparaginato) zinc (II): A promising new semiorganic crystal with high laser damage threshold for shorter wavelength generation. *Optics & Laser Technology*, 101, 248-256.
- Suseno, J.E., Firdausi, K.S., 2008. Rancang Bangun Spektroskopi FTIR (Fourier Transform Infrared) Untuk Penentuan Kualitas Susu Sapi., *Berkala Fisika*. 11 (1): 23-28.
- Tanaka, K., Yosiaki, K., Tetsuro S., Fumiko, H., Katsuko, K., 2008., Quantitation of Curcuminoids in Curcuma Rhizome by Near-Infrared Spectroscopic Analysis., *Journal of Agriculture and Food Chemistry*., 8 (56): 8787-8792.

- Tang, Y., Huang, X., Yu, H., Tang, L., 2012, Nitrogen-Doped TiO₂ Photocatalyst Prepared by Mechanochemical Method: Doping Mechanisms and Visible Photoactivity of Pollutant Degradation, *International Journal of Photoenergy*.
- Tati, S., 2017., Dasar-dasar Spektrofotometri UV-Vis dan Spektrometri Massa Untuk Penentuan Struktur Senyawa Organik, AURA.CV. Anugrah Utama Raharja, Anggota IKAPI No.003/LPU/2013, Jl. Prof. Dr. Soemantri Brojonegoro, Komplek Unila Gedongmeneng Bandar Lampung., 1-30
- Utubira, Y. K. Wijaya, Triyono and E. Sugiharto. 2006. Preparation and Characterization Of TiO₂-Zeolite and Its Application To Degrade Textille Wastewater By Photochatalytic Method. *Indo J. Chem.* 6(3) : 231-237.
- Vokalia, F. H. 2019. Penetapan Kadar Parasetamol dan Ibuprofen Dalam Tablet Secara Simultan dengan Metode SpektroskopI FTIR (four transform infrared) Kombinasi Kemometrik (Doctoral dissertation, Universitas Muhammadiyah Purwokerto).
- Wardhani, S., Bahari, A., Khunur, M.M., 2016.,Aktivitas Fotokatalitik Beads TiO₂-N/Zeolit- Kitosan Pada Fotodegradasi Metilen Biru (Kajian Pengembangan, Sumber Sinar dan Lama Penyinaran). *Journal of Environmental Engineering dan Sustainable Technology.*, 3 (2)
- Yalcin, Y., Kilic, M., & Cinar, Z. 2010. Fe³⁺-doped TiO₂: A combined experimental and computational approach to the evaluation of visible light activity. *Applied Catalysis B: Environmental*, 99(3-4), 469-477.