

DAFTAR PUSTAKA

- Abaker, M.; Umar, A.; Baskoutas, S.; Kim, S.H and Wang, S.W. (2011). Structural and Optical Properties of CuO Layered Hexagonal Discs Synthesized by a Low-Temperature Hydrothermal Process. *J. Phys D: Applied Physics*, 44, 1-10. doi:10.1088/0022-3727/44/15/155405
- Adrian, N., Pradana, D. B., & Kinasih, T. A. (2019). *Penggunaan Komposit CuO-ZnO Hasil Sintesis Dengan Metode Elektrokimia Sebagai Katalis Fotodegradasi Methyl Orange*. Surakarta: Universitas Sebelas Maret.
- Ahmed, S., Rasul, M., Brown, R., & Hasib, M. (2011). Influence of Parameters on the Heterogeneous Photocatalytic Degradation of Pesticides and Phenolic Contaminants in Wastewater : a short review. *J. Environ Manage*, 92(3), 311-330.
- Ameta, R., Benjamin, S., Ameta, S., & Ameta, C. S. (2013). Photocatalytic Degradation of Organic Pollutant : a Review. *Scienc Forum*, 734, 247-272.
- Anandan, S., & Yang, S. (2007). Emergent Methods to Synthesize and Characterize Semiconductor CuO Nanoparticles with Various Morphologies-an Overview. *J. Exp Nanoscience*, 2(1-2), 23-56.
- Bhaduri, Ayana and Kajal. (2019). Facile Synthesis and Characterization of Cupric Oxide (CuO) Nanoparticles : Inexpensive and Abundant Candidate for Light Harvesting. *AIP Conference Proceedings*, (pp. 1-5). doi: <https://doi.org/10.1063/1.5097116>
- Chandra, Diana Eka; Hindryawati, Noor; Koesnarpadi, Soerja;. (2019). Degradasi Metilen Biru dengan Metode Fotokatalitik Berdasarkan Variasi Berat Katalis Zeolit-WO₃. *Prosiding Seminar Nasional Kimia 2019* (pp. 127-130). Samarinda: Jurusan Kimia FMIPA UNMUL.
- Dwijayanti, U., Gunawan, Widodo, D. S., Haris, A., Suyati, L., & Lusiana, R. A. (2020, April). Adsorpsi Methylene Biru (MB) Menggunakan Abu Layang Batubara Teraktivasi Larutan NaOH. *Analit : Analytical and Environmental Chemistry*, 5, 1-14.
- Hamdaoui, O. d. (2005). Removal of Metilen biru from Aqueous Solution By Wheat Bran. *Acta Chim*, 54, 407-418.

- Hermawan, Angga; Zhang, Bhiao; Taufik , Ardiansyah; Asakura, Yusuke; Hasagewa, Takuya; Zhu, Jianfeng; Shi, Pei; Yin, Shu;. (2020). CuO Nanoparticles/Ti₃C₂T_x MXene Hybrid Nanocomposites for Detection of Toluene Gas. *ACS*, 4755-4766.
- Jana, R., Dey, A., Das, M., Datta, J., Das, P., & Ray, P. P. (2018). Improving Performance of Device Made up of CuO Nanoparticles Synthesized by Hydrothermal Over the Reflux Method. *Applied Surface Science*, 1-34. doi:<https://doi.org/10.1016/j.apsusc.2018.04.262>
- Kim, D., Jeong, M., & Moon, J. (2006). Synthesis of Silver Nanoparticles Using Polyol Process and The Influence of Precursor Injection. *Inst Phys Publishing*, 4019.
- Kumar, K. Y., Nayaka, H. B., Hanumanthappa, Y. A., Veena , H., & Kumar, M. S. (2014). Hydrothermal Synthesis of Hierarchical Copper Oxide Nanoparticles and its Potential Applications as Adsorbent for Pb(II) with High Removal Capacity. *Science Technology*, 49(15), 2389-2399.
- Li, Y., Wang , F., Zhou, G., & Ni, Y. (2003). Aniline Degradation by Electrocatalytic Oxidation. *Chemosphere*, 53(10), 1229-1234.
- Li, Y., Yang , X. Y., Feng, Y., Yuan , Z. Y., & Su, B. (2012). One-dimensional Metal Oxide Nanotubes, Nanowires, Nanoribbons and Nanorods : Synthesis, Characterizations, Properties and Applications. *Crit. Rev. Solid. State. Mater. Science*, 37(1), 1-74.
- Manurung, Renita; Hasibuan, Rosdanelli; , Irvan;. (2004). Perombakan Zat Warna Azo Reaktif secara Anaerob-Aerob. *e-USU Repository*.
- Narayanan, R., & El-Sayed, M. A. (2005). Catalysts with Transition Metal Nanoparticles in Colloidal Solution : Nanoparticle Shape Dependence and Stability . *J. Phys Chem*, 12663-12676.
- Nazim, Mohammed; Khan, Aftab Aslam Parwaz ; Abdullah, M.Asiri and Kim, Jae Hyun. (2021). Exploring Rapid Photocatalytic Degradations of Organic Pollutants with Porous CuO Nanosheets : Synthesized, Dye Removal, and Kinetic Studies at Room Temperature. *ACS Omega*, 6, 2601-2612. doi:<https://dx.doi.org/10.1021/acsomega.0c04747>

- Nesa, M., Momin, M. A., Sharmin, M., & Bhuiyan, A. H. (2020). Structural, Optical and Electronic Properties of CuO and Zn Dopped CuO : DFT Based First-Principle Calculation. *Chem. Phys*, 528.
- Nogueira, A.C; Luis E.Gomes; Julio A.P.F; Joao E.F.S.Rodrigues; Renato V.Gonzalves and Heberton Weber. (2019). Improve Visible Light Photoactivity of CuBi₂O₄/CuO Heterojunctions for Photodegradation of Metilen biru and Metronidazole. *The Journal of Physical Chemistry*, 1-11. doi:10.1021/acs.jpcc.9b06907
- Norzaee, S., Djahed, B., Khaksefidi, R., & Mostafapour, F. K. (2017). Photocatalytic Degradation of Aniline in Water using CuO Nanoparticles. *J. Water Supply*, 66(3), 178-185.
- Palupi, E. (2006). Degradasi Metilen biru dengan Metode Fotokatalis dan Fotoelektrokatalisis Menggunakan Film TiO₂. *Departement Fisika IPB*.
- Patial, S., Hasija, V., Raizada, P., Singh, P., Parwaz, A. A., Singh, K., & Asiri, A. M. (2020). Tunable Photocatalytic Activity of SrTiO₃ for Water Splitting : Strategies and Future Scenario. *J. Environment Chem. Eng.* Retrieved from <https://doi.org/10.1016/j.jece.2020.103791> (in press)
- Raizada, P; Sudhaik, A; Singh, P; Shandilya, P; Thakur, P; Jung , H;. (2020). Vissible-Light Assisted Photodegradation of 2,4-dinitrophenol using Ag₂CO₃ Loaded Phosporus and Sulphur co-dopped Graphitic Carbon Nitride Nanosheet in Simulated Wastewater. *Arab J. Chem* , 3196-3209.
- Ramesh, S. (2013). Sol-Gel Synthesis and Characterization of Ag₃(2+x)Al_xTi_{4-x}O₁₁+ δ (0.0<x<1) Nanopartikel. *Hindawi Publishing Corporation Journal*. doi:<http://dx.doi.org/10.1155/2013/929321>
- Rao, Martha P; Wu, Jerry.J; Abdullah, M.Asiri; Anandan,S and Ashokkumar, Muthupandian. (2017). Photocatalytic Properties of Hierarchical CuO Nanosheets Synthesized by a Solution Phase Method. *Journal of Environmental Science*, XX, 1-10. doi: <http://dx.doi.org/10.1016/j.jes.2017.05.005>
- Salehi, K; A.Bahmani; B.Shahmoradi; M.A.Pordel; S.Kohzadi; Y.Gong; H.Guo; H.P.Shivaraju; R.Rezaee; R.R.Pawar and S.M.Lee. (2017). Response Surface Methodology (RSM) Optimization Approach for Degradation of

Direct Blue 71 Dye Using CuO-ZnO Nanocomposite. *Int. J. Environ. Sci. Technol.*, 1-10. doi:DOI 10.1007/s13762-017-1308-0

- Setiabudi, A., Hardian, R., & Mudzakir, A. (2020). *Karakterisasi Material Prinsip dan Aplikasinya dalam Penelitian Kimia*. Bandung: UPI Press.
- Shandilya, P; Mittal, D; Soni, M; Raizada, P; Hosseini, A; Saini, A K; Singh, P;. (2018a). Fabrication of Flourin dopped Graphene and SmVO₄ Based Dispersive and Adsorptive Photocatalyst for Abatement of Phenolic Compound from Water and Bacterial Disinfectan. *J. Clean Prod*, 203, 386-399. Retrieved from <https://doi.org/10.1016/j.jclepro.2018.08.27>
- Shandilya, P; Mittal, D; Soni, M; Raizada, P; Hosseini, A; Saini, A K; Singh, P;. (2018b). Islanding of EuVO₄ on High-Dispers Flourine dopped few Layered Graphene Sheet for Efficient Photocatalytic Mineralization of Phenolic Compunds and Bacterial Disinfectan. *J. Taiwan Ins. Chem*, 93, 528-542. Retrieved from <https://doi.org/10.1016/j.tice.2018.08.034>
- Sing, P; Sudhaik, A; Raizada, P; Shandilya, P; Sharma, R; Hosseini, A;. (2019c). Photocalytic Performance and Quick Recovery of BiOI/Fe₃O₄ Graphene Oxide Ternary Photocatalys for Photodegradation of 2,3-dinitrophenol under Visible Light. *J. Mater Today Chem*, 12, 85-95.
- Sudhaik, A., Raizada, P., Shandilya, P., & Singh, P. (2018b). Magnetically Recoveable Graphitic Carbon Nitride and NiFe₂O₄ based Magnetic Photocatalyst for Degradation of Oxytetracycline Antibiotic in Simulated Wastewater under Solat Light. *J. Environ Chem. Eng*, 6(4), 3874-3883.
- Sun, S., Zhang, X., Cui, J., & Liang, S. (2019). Tuning Interfacial Cu-O Atomic Structures for Enhanced Catalytic Applications. *J. Chem Asian*, 14(17), 2912-2924.
- Sundari, C., Rahayu, R., & Windayani, d. N. (2018). Sintesis dan Karakterisasi Nanostruktur Tembaga Oksida dengan Metode Hidrotermal. *al-Kimiya*, 48-51.
- Wang, L. (2006). *Disertation : Preparation and Characterization of Properties of Electrodeposited Copper Oxide Film*. Texas: The University of Texas at Arlington.

- Wijayanto, A. (2013). *Fotodegradasi Metilen Biru Menggunakan Komposit TiO₂-SiO₂*. Yogyakarta: Fakultas Sains dan Teknik Universitas Islam Negeri Sunan Kalijaga.
- Xu, Y. d. (2000). The Absolute Energy Positions of Conduction and Valence Band of Selected Semiconduction Minerals. *Am Mineral*, 85(3-4), 543-556.
- Yu, J; Xiang, Q; Zhou , M;. (2009). Preparation, Characterization and Visible-Light Driven Photocatalytic Activity of Fe-doped Titania Nanorods and First-Principles Study for Electronic Structure. *Applied Catalysis B : Environmental*, 90, 595-602.
- Zhang , H., Wang, X., Chen , C., An, C., Xu, Y., Dong , Y., & Yuan, H. (2016). Facile Synthesis of Diverse Transition Metal Oxide Nanoparticles and Electrochemical Properties. *J. Inorg Chem*, 1048-1057.
- Zhang, Yajing; Siu Wing Or; Xiaolei Wang; Tieyu Cui; Weibin Cui; Ying Zhang dan Zhidong Zhang. (2009). Hydrothermal Synthesis of Three-Dimensional Hierarchical CuO Butterfly-Lake Architectures. *European Journal of Inorganic Chemistry*, 168-173. doi:DOI: 10.1002/ejic.200800911