

DAFTAR PUSTAKA

- [1] Dragana, Š., Christos, A.A., Goran Š, Marinos, D., Mladenka, N., Tamara, I., & Spyros, N.Y. (2018). Photocatalytic degradation of naproxen and methylene blue: Comparison between ZnO, TiO₂ and their mixture. *Process Safety and Environmental Protection*, 113, 174-183. <https://doi.org/10.1016/j.psep.2017.10.007>
- [2] Jiaojiao, L., Zhazhou, L., Jiaojiao, L., & Ping Li. (2018). Photocatalytic degradation of methylene blue in aqueous solution by using ZnO-SnO₂ nanocomposites. *Materials Science in Semiconductor Processing*, 87(15), 24-31. <https://doi.org/10.1016/j.mssp.2018.07.003>
- [3] Kalpesh, A.I., & Vinod S.S. (2019). Photocatalytic degradation of methylene blue using ZnO and 2%Fe-ZnO semiconductor nanomaterials synthesized by sol-gel method: a comparative study. 1, 1247. <https://doi.org/10.1007/s42452-019-1279-5>
- [4] Daria, S., Sindu, S., Oleksandr, P., Sviatlana, L., Martina B., Mikhail, Z., Franz, F., Rainer, A., Yogendra, K.M. (2019). Mutual interplay of ZnO micro-and nanowires and methylene blue during cyclic photocatalysis process. *Journal of Environmental Chemical Engineering*, 7(2), 103016. <https://doi.org/10.1016/j.jece.2019.103016>
- [5] Nandini, R., & Santanu, C. (2020). ZnO as photocatalyst: An approach to waste water treatment. *Materials Today: Proceedings*, 46(14), 6399-6403. <https://doi.org/10.1016/j.matpr.2020.06.264>
- [6] Naciri, Y., A, Hsini., Z. Ajmal, A. Bouddouch, B. Bakiz, J.A. Navío, A. Albourine, J-C. Valmalette, M. Ezahri, & A. Benlhachemi. (2020). Influence of Sr-doping on structural, optical and photocatalytic properties of synthesized Ca₃(PO₄)₂. *Journal of Colloid and Interface Science*, 572, 269-280. <https://doi.org/10.1016/j.jcis.2020.03.105>
- [7] Pujiastuti, C., Y Ngatilah., M Septianto., & A Tantyono. (2020). Reaction Kinetics The Formation of Calcium Sulfate From Cow Bone And Sulfuric Acid In Batch. *Journal of Physics: Conference Series*, 1569, 042053. <https://doi.org/10.1088/1742-6596/1569/4/042053>
- [8] Azfar, A.K., Kasim, M.F., Lokman, I.M., Rafaie, H.A., & Mastuli, M.S. (2021). Comparative study on photocatalytic activity of transition metals (Ag and Ni)-

doped ZnO nanomaterials synthesized via sol–gel method. 7(2),191590.
<http://dx.doi.org/10.1098/rsos.191590>

- [9] Xiaoqing, C., Zhansheng, W., Dandan, L., & Zhenzhen, G. (2017). Preparation of ZnO Photocatalyst for the Efficient and Rapid Photocatalytic Degradation of Azo Dyes. *J Mater Sci: Mater Electron*, 12(1), 143. <https://doi.org/10.1007/s10854-015-2680-5>
- [10] Yuxiang Xue, Qianqian Chang, Xinyu Hu, Jun Cai, dan Hu Yang. (2020). A simple strategy for selective photocatalysis degradation of organic dyes through selective adsorption enrichment by using a complex film of CdS and carboxymethyl starch. *Journal of Environmental Management*. 274, 1 11184.
- [11] Abarna Krishna Moorthy, Bhuvanewari Govindarajan Rathi, Satya Prakash Shukla , Kundan Kumar dan Vidya Shree Bharti. (2021). Acute toxicity of textile dye Methylene blue on growth and metabolism of selected freshwater microalgae. *Environmental Toxicology and Pharmacology*. 82, 103552. <https://doi.org/10.1016/j.etap.2020.103552>
- [12] Himanshu Patel dan R.T.Vashi. (2015). Characterization and Treatment of Textile Wastewater. Elsevier. Chapter 3, 73-110 <https://doi.org/10.1016/C2014-0-02395-7>
- [13] Dong Xu dan Hailing Ma. (2021). Degradation of rhodamine B in water by ultrasound-assisted TiO₂ photocatalysis. *Journal of Cleaner Production*. 313, 127758. <https://doi.org/10.1016/j.jclepro.2021.127758>
- [14] Muhammad R. I, Mukhlasur. R, S.F.U. Farhadb dan J. Poddera. Structural, optical and photocatalysis properties of sol–gel deposited Aldoped ZnO thin films. Vol.16; 120-126 (2019). <https://doi.org/10.1016/j.surfin.2019.05.007>
- [15] Chun HongVoon dan Sung TingSam. (2019). Nanobiosensors for Biomolecular Targeting. Elsevier. Chapter 2, 23-50 <https://doi.org/10.1016/C2017-0-00809-1>
- [16] Elim Albiter, José M.Barrera-Andrade, Elizabeth Rojas-García dan Miguel A.Valenzuela. (2019). Nanocarbon and its Composites: Preparation, Properties and Applications. Elsevier. Chapter 17, 521-588. <https://doi.org/10.1016/B978-0-08-102509-3.00017-1>

- [17] Sudtha Murthy, Paul Effiong dan Chee Chin Fei. (2020). Metal Oxide Powder Technologies: *Fundamentals, Processing Methods and Applications*. Elsevier. Chapter 11, 233-251. <https://doi.org/10.1016/B978-0-12-817505-7.00011-7>
- [18] Ü. Özgür, Ya. I. Alivov, C. Liu, A. Teke, M. A. Reshchikov, S. Doğan, V. Avrutin, S.-J. Cho, dan H. Morkoç. (2005). A comprehensive review of ZnO materials and devices. *Journal Of Applied Physics*, 98, 041301. <http://dx.doi.org/10.1063/1.1992666>
- [19] T.A.van Vugt, J.A.P.Geurts, J.J.Arts, dan N.C.Lindfors. Management of Periprosthetic Joint Infections (PJIs). Elsevier. Chapter 3, 41-68. <https://doi.org/10.1016/B978-0-08-100205-6.00003-3>
- [20] Inna V. Fadeeva, Bogdan I. Lazoryak, Galina A. Davidova, Fadis F. Murzakhanov, Bulat F. Gabbasov, Natalya V. Petrakova, Marco Fosca, Sergey M. Barinov, Gianluca Vadal`a, Vuk Uskokovi, Yufeng Zheng, dan Julietta V. Rau. (2021). Antibacterial and cell-friendly copper-substituted tricalcium phosphate ceramics for biomedical implant applications. *Materials Science & Engineering C*. 129, 112410. <https://doi.org/10.1016/j.msec.2021.112410>
- [21] M.R.Cohn, A.Unnanuntana, T.J.Pannu, S.J.Warner, dan J.M.Lane. (2017). *Comprehensive Biomaterials II*. Elsevier. Chapter 7, 278-297. <https://doi.org/10.1016/B978-0-12-803581-8.10109-2>
- [22] Sudha Prasad, Vijayalakshmi Kumar, Sangeetha Kirubanandam, dan Ahmed Barhoum. (2018). Emerging Applications of Nanoparticles and Architecture Nanostructures Current Prospects and Future Trends. Elsevier. Chapter 11, 305-340. <https://doi.org/10.1016/B978-0-323-51254-1.00011-7>
- [23] Ionela Andreea Neacșu, Adrian Ionuț Nicoară, Otilia Ruxandra Vasile, dan Bogdan Ștefan Vasile. (2016). *Nanobiomaterials in Hard Tissue Engineering*. Elsevier. Chapter 9. <https://doi.org/10.1016/B978-0-323-42862-0.00009-2>
- [24] Massimiliano D'Arienzo, Roberto Scotti, Barbara Di Credico, Matteo Redaelli. (2017). *Studies in Surface Science and Catalysis*. Elsevier. Chapter 13. 477-540. <https://doi.org/10.1016/B978-0-12-805090-3.00013-9>
- [25] Yanet Rodriguez Herrero dan Aman Ullah. (2020). Metal Oxide Powder Technologies *Fundamentals, Processing Methods and Applications*. Elsevier. Chapter 14. 279-297. <https://doi.org/10.1016/B978-0-12-817505-7.00014-2>

- [26] Elhalil, A., Elmoubarki, R., Farnane, M., Machrouhi, A., Mahjoubi, F.Z., Sadiq, M., Qourzal, S., & Barka, N. (2018). Synthesis, characterization and efficient photocatalytic activity of novel Ca/ZnO-Al₂O₃ nanomaterial. *Materialstoday communications*, 16, 194-203. <https://doi.org/10.1016/j.mtcomm.2018.06.005>
- [27] Azhar A.K., & J, Yan, C.Y.Z. (2021). Investigating the effects of ZnO dopant on the thermodynamic and kinetic properties of CaCO₃/CaO TCES system. *Energy*. 215, 119132. <https://doi.org/10.1016/j.energy.2020.119132>
- [28] Nguyen, T.H., Nguyen L.M.T., Doan, V.T., Mai, H.T.T., Thanh-Dong, P., Tran, D.M., Hoang, T.T., Mai T.B., Minh V.N. (2019). Monocrotophos pesticide effectively removed by novel visible light driven Cu doped ZnO photocatalyst. *Journal of Photochemistry and Photobiology A: Chemistry*, 382, 111923. <https://doi.org/10.1016/j.jphotochem.2019.111923>
- [29] Bahrul, U., Sultan, I., Ahmad, N.F., Inayatul, M., Muhammad, A.A., Nurfina, Y., Eymal, B., Demmalino & Dahlang, T. (2020). Composite carbon-lignin/ zinc oxide nanocrystalline ball-like hexagonal mediated from *Jatropha curcas* L leaf as photocatalyst for industrial dye degradation. *Journal of Inorganic and Organometallic Polymers and Materials*, 30(12), 4905-4916. <https://doi.org/10.1007/s10904-020-01631-5>
- [30] Rico, N., Dwi, N.H., Dwi, G.A., Is, F. (2020). Pengolahan Limbah Batik Cair Menggunakan Fotokatalis TiO₂-Abu Vulkanik Desa Wukirsari Yogyakarta, 10(2), 1-8. <https://journal.uui.ac.id/khazanah/article/view/16647>
- [31] Noah, A.Z., Semary, M.A.E., Youssef, A.M., & El-Safty, M.A. (2017). Enhancement of yield point at high pressure high temperature wells by using polymer nanocomposites based on ZnO & CaCO₃ nanoparticles. *Egyptian Journal of Petroleum*, 26, 33-40. <http://dx.doi.org/10.1016/j.ejpe.2016.03.002>
- [32] Selvaraj, P., Kalimuthu, A., Manjunathan, N., Palaniswamy, K., Kathirvel, D., Rajamani, R., & V. Bhuvaneshwari., Devaraj, B. (2020). Synthesis and characterization of chitosan/zinc oxide nanocomposite for antibacterial activity onto cotton fabrics and dye degradation applications. *International Journal of Biological Macromolecules*, 164, 2779-2787. <https://doi.org/10.1016/j.ijbiomac.2020.08.047>
- [33] Anabel, D.A., Patricia, R.T., Patricia, M., Piedad, N.D.A. (2020). In vitro characterization of new biphasic scaffolds in the sub-system Ca₃(PO₄)₂-Ca₅SiP₂O₁₂.

Ceramics International, 46(11), 18123-18130.
<https://doi.org/10.1016/j.ceramint.2020.04.133>

- [34] Maria, M.F.F., Ikhmal, W.M.K.W.M., Amirah, M.N.N.S., Manja, S.M. Syaizwadi, S.M., Chan, K.S., Sabri, M.G.M., & Adnan, A. (2019). Green approach in anti-corrosion coating by using *Andrographis paniculata* leaves extract as additives of stainless steel 316L in seawater. *Journal of Corrosion and Scale Inhibition*, 8(3), 644-658. <https://doi.org/10.17675/2305-6894-2019-8-3-13>
- [35] Alessandra, D., Johannes, K., Massimo, L., Emanuela, C., Stefania, M., Paolo, G., Altero, A., Loretta, G., Silvia, L., & Luisa, M. (2018). Qualitative Analysis of Traditional Italian Dishes:FTIR Approach. *Sustainability*, 10, 4112. <https://doi.org/10.3390/su10114112>
- [36] Hend, A.E., & Ahmed, M.I. Effective Fabrication and Characterization of Eco-friendly Nano Chitosan Capped Zinc Oxide Nanoparticles for Effective Marine Fouling Inhibition. *Journal of Environmental Chemical Engineering*, 8(4), 103949. <https://doi.org/10.1016/j.jece.2020.103949>
- [37] Muhammad, R.I., Mukhlasur, R,S.F.U., Farhadb & J, Poddera. (2019). Structural, optical and photocatalysis properties of sol–gel deposited Aldoped ZnO thin films. *Journal of Inorganic and Organometallic Polymers and Materials*, 16, 120-126. <https://doi.org/10.1016/j.surfin.2019.05.007>
- [38] Choudhary, I., Shukla, R., Sharma, A., Raina, K. (2020). Effect of excitation wavelength and europium doping on the optical properties of nanoscale zinc oxide, *Journal of Materials Science: Materials in Electronics*, 31, 20033-20042. <https://doi.org/10.1007/s10854-020-04525-x>
- [39] Naik, E.I., Naik, H.S.B., Swamy, B.E.K., Viswanath, R., Gowda, I.K.S., Prabhakara, M.C., & Chetankumar, K. (2021). Influence of Cu doping on ZnO nanoparticles for improved structural, optical, electrochemical properties and their applications in efficient detection of latent fingerprints. *Chemical Data Collections*, 33, 100671 <https://doi.org/10.1016/j.cdc.2021.100671>
- [40] Adeleke, J.T., Theivasanthi, T., Thiruppathi, M., Swaminathan, M., Akomolafe, T., & Alabi, A.B.. (2018). Photocatalytic degradation of methylene blue by ZnO/NiFe₂O₄ nanoparticles. *Applied Surface Science*, 455, 195-200. <https://doi.org/10.1016/j.apsusc.2018.05.184>

- [41] Sonal, S., Saurabh, D & Shukla, A.K. (2018). Self-assembly of the Ag deposited ZnO/carbon nanospheres: A resourceful photocatalyst for efficient photocatalytic degradation of methylene blue dye in water. *Advanced Powder Technology*, 12 (29), 3483-3492. <https://doi.org/10.1016/j.appt.2018.09.031>
- [42] Saravanan, S., Mohana, M.K., Navaneethan, M., Ponnusamy, S., & Muthamizhchelvan, C. (2019). Synthesis and photocatalytic activity of Gd doped ZnO nanoparticles for enhanced degradation of methylene blue under visible light. *Materials Science in Semiconductor Processing*, 103, 104622. <https://doi.org/10.1016/j.mssp.2019.104622>
- [43] Selvi, N., Sankar, S., & Dinakaran, K. (2015). Effect of shell ZnO on the structure and optical property of TiO₂ core@shell hybrid nanoparticles, *J. Mater. Sci: Mater. Electron.* 26, 2271-2277. <https://doi.org/10.1007/s10854-015-2680-5>
- [44] Trandafilović, V., Jovanović, D.J., Zhang, X., Ptasińska, S., & Dramićanin, M.D. (2017). Enhanced photocatalytic degradation of methylene blue and methylorange by ZnO:Eu nanoparticles. *Applied Catalysis B: Environmental*, 17, 740-752. <http://dx.doi.org/10.1016/j.apcatb.2016.10.063>

