DAFTAR PUSTAKA

Alheshibri, M. (2023). Fabrication of AU–AG bimetallic nanoparticles using pulsed laser ablation for medical applications: A review. *Nanomaterials*, *13*(22), 2940.

Alsaady, M., Alshammari, A., Alotaibi, A., & Abdullah, A. M. (2014). Structural and optical properties of transition-metal-doped TiO_2 nanoparticles synthesized by sol-gel method. *Journal of Nanomaterials*, 1-9.

Bagheri, B., Shamsipur, A., Abdollahzadeh, A., & Mirsalehi, S. E. (2022). Investigation of SiC Nanoparticle Size and Distribution Effects on Microstructure and Mechanical Properties of Al/SiC/Cu Composite during the FSSW Process: Experimental and Simulation. *Metals and Materials International*, 29(4), 1095–1112.

Bakbolat, B., Daulbayev, C., Sultanov, F., Beissenov, R., Umirzakov, A., Mereke, A., Bekbaev, A., & Chuprakov, I. (2020). Recent Developments of TiO2-based Photocatalysis in the Hydrogen Evolution and Photodegradation: A Review. *Nanomaterials*, 10(9).

Banerjee, S., Pillai, S. C., Falaras, P., O'Shea, K. E., Byrne, J. A., & Dionysiou, D. D. (2014). New Insights into the Mechanism of Visible Light Photocatalysis. *The Journal of Physical Chemistry Letters*, 5(15), 2543–2554.

Chen L., Lei, Y., Yang, Y., Huang, J., Zhang, W., Ng, K. H., Lai, Y. (2024). Metal organik framework-assisted copper-modified titania (Cu/TiO2) with abundant exposed active sites and highly accessible pore channels for an enhanced photo-generation of hydrogen, *Journal of Colloid And Interface Science*, 677, 647-656.

Choi, H., Al-Abed, S. R., dan Dionysiou, D. D., (2009), Nanostructured Titanium Oxide Film and Membrane Based Photocatalysis for Water Treatment, *Nanotechnology Applications for Clean Water*, 39-46.

Eddy, D. R., Permana, M. D., Sakti, L. K., Sheha, G. A. N., Solihudim, Hidayat, S., Takei, T., Kumada, N., & Rahayu, I. (2023). Heterophase Polymorph of TiO2 (Anatase, Rutile, Brookite, TiO2 (B)) for Efficient Photocatalyst: Fabrication and Activity. *Nanomaterials*, 13(4).

Fatimah, S., Ragadhita, R., Husaeni, D. F. A., dan Nandiyanto, A. B. D. (2021). How to calculate crystallite size from X-Ray Diffraction (XRD) using Scherrer Method, *ASEAN Journal of Science and Engineering*, 2(1), 65-76.

Garcia, A. L. T. (2010). Development and testing of new materials for high temperature PEM water electrolysis. Thesis.

Huang, C., Kuo, S., & Hsin, C. (2018). Elektron-beam-induced phase transition in the transmission elektron microscope: the case of VO2(B). *Royal Society of Chemistry*, 20(43), 6857-6860.

Hussain, S., Khan, N., Gul, S., Khan, S., Khan, H., (2020). Contamination of Water Resources by Food Dyes and Its Removal Technologies, *Water Chemistry*.

Ijaz, M., & Zafar, M. (2020). Titanium dioxide nanostructures as efficient photocatalyst: Progress, challenges and perspective. *International Journal of Energy Research*, 45(3), 3569–3589.

Kandeil, M., EmanTahaMohammed, E., Hashem, K., & ElWahab, R. (2018). Protective effect of Pomegranate Peel Extract against Titanium dioxide nanoparticles (TiO2- NPs) -induced neurotoxicity in rats. *American Journal of Physiology Biochemistry and Pharmacology*, *8*(2), 55.

Kang, X., Liu, S., Dai, Z., He, Y., Song, X., & Tan, Z. (2019). Titanium Dioxide: From Engineering to Applications. *Multidisciplinary Digital Publishing Institute*, 9(2), 191-191.

Kansal, S K., Kaur, N., & Singh, S K. (2009). Photocatalytic Degradation of Two Commercial Reactive Dyes in Aqueous Phase Using Nanophotocatalysts. *Springer Science Business Media*, 4(7).

Konda, S., Mohammadi, M. M., Buchner, R. D., Lin, H., & Swihart, M. T. (2018). Flame-based synthesis and in situ functionalization of palladium alloy nanoparticles. *AIChE Journal*, *64*(11), 3826–3834.

Li, Y., Zheng, Z., Yan, J., Lü, B., & Li, X. (2022). A Review on Pulsed Laser Preparation of Nanocomposites in Liquids and Their Applications in Photocatalysis [Review of A Review on Pulsed Laser Preparation of Nanocomposites in Liquids and Their Applications in Photocatalysis]. *Catalysts*, 12(12), 1532. Multidisciplinary Digital Publishing Institute.

Lin, H., Rumaiz, A K., Schulz, M., Wang, D., Rock, R M., Huang, C., & Shah, S İ. (2008). Photocatalytic activity of pulsed laser deposited TiO2 thin films. *Elsevier BV*, 151(2), 133-139.

Luo, X., Zhu, Z., Tian, Y., You, J., & Jiang, L. (2021). Titanium Dioxide Derived Materials with Superwettability. *Catalysts*, *11*(4), 425.

Mahlambi, M. M., Ngila, C. J., & Mamba, B. B. (2015). Recent Developments in Environmental Photocatalytic Degradation of Organik Pollutants: The Case of Titanium Dioxide Nanoparticles—A Review. *Journal of Nanomaterials*, 1.

Mathew, S., Ganguly, P., Rhatigan, S., Kumaravel, V., Byrne, C., Hinder, S. J., Pillai, S.C. (2018). Cu-TiO_2 heterojunction photocatalysts for visible-light induced hydrogen production. *Applied Catalysis B: Environmental*, 232, 1-17.

Mavrikos, A., Papoulis, D., Todorova, N., Papailias, I., Trapalis, C., Panagiotaras, D., Chalkias, D. A., Stathatos, E., Gianni, E., Somalakidi, K., Sygkridou, D., & Komarneni, S. (2022). Synthesis of Zn/Cu metal ion modified natural palygorskite clay-TiO_2 nanocomposites for the photocatalytic outdoor and indoor air purification. *Journal of Photochemistry & Photobiology, A:Chemistry*, 433.

Muthuvel, A., Said, N. M., Jothibas, M., Gurushankar, K., & Mohana, V. (2021). Microwave-assisted green synthesis of nanoscaled titanium oxide: photocatalyst, antibacterial and antioxidant properties. *Journal of Materials Science Materials in Electronics, 32*(18), 23522–23539.

Nandiyanto, Bayu, A., Oktiani, R., & Ragadhita, R. (2019). How to Read and Interpret FTIR Spectroscope of Organic Material. *Indonesian Journal of Science and Technology*, 4(1).

Nurhasanah, I. dan Khumaeni, A. (2023). Prinsip dan Aplikasi Ablasi Laser Pulsa dalam Medium Cair untuk Sintesis Koloid Nanopartikel, UNDIP Press: Semarang.

Ohtani, B. (2014). PhotoCatalyst. In *Springer eBooks* (pp. 1529–1532).

Peng, Y., Cao, J., Yang, J., Yang, W., Zhang, C., Li, X., Dryfe, R. A. W., Li, L., Kinloch, I. A., & Liu, Z. (2020). Laser Assisted Solution Synthesis of High

Performance Graphene Supported Electrocatalysts. In Advanced Functional Materials (Vol. 30, Issue 32).

Purnomo, M. A. J. dan Cahyana, N. A. (2020). Tanah sebagai bahan pewarna purba yang ramah lingkungan, *Prosiding Seni Teknologi dan Masyarakat 2*, 199-204.

Rheima, A. M., Khadom, A. A., & Kadhim, M. M. (2022). Removal of Cibacron Blue P-6B dye from aqueous solution using synthesized anatase titanium dioxide nanoparticles: Thermodynamic, kinetic, and theoretical investigations. *Journal of Molecular Liquids*, 357, 119102.

Salman, A. A. (2016). Synthesis and Characterization of TiO2 Nanoparticles by Laser Ablation in Liquid. *Eng. & Tech. Journal*, 34(1).

Sewnet, A., Abebe, M., Asaithambi, P., & Alemayehu, E. (2022). Visible-Light-Driven g-C_3N_4/TiO_2 Based Heterojunction Nanocomposites for Photocatalytic Degradation of Organic Dyes in Wastewater: A Review. *Air, Soil and Water Research*, 15: 1-23.

Shaheen, M. E. & Abdelwahab, A. Y. E. (2025). Laser ablation in liquids: A versatile technique for nanoparticle generation. *Optics and Laser Technology*, 186.

Srinivas, B., Shankar, M. V., & Anandan, S. (2011). An overview on the photocatalytic activity of nano-doped TiO_2. *ISRN Nanotechnology*, 1-21.

Sutanto, H., & Wibowo, S. (2015). Semikonduktor Fotokatalis Seng Oksida dan Titania (Sintesis, Deposisi, dan Aplikasi). Semarang. Penerbit Telescope.

Tanaya, K., Kumari, A., Singh, A. K., Singh, D. (2024). Bioremediation: An Economical Approach for Treatment of Textile Dye Effluents, *Water Air Soil Pollut*, 235-516.

Tayade, R. J., Natarajan, T. S., & Bajaj, H. C. (2009). Photocatalytic degradation of methylene blue dye using ultraviolet light emitting diodes. *Industrial & Engineering Chemistry Research*, *48*(23), 10262–10267.

Tsvetanov, C., Kolev, K., & Grozeva, M. (2019). Effect of metal doping of TiO_2 nanoparticles on their photocatalytic activity. *Journal of Chemical Technology and Metallurgy*, 54(3), 577-590.

Veloso, R. C., Dias, C., Souza, A. R., Ramos, N. M. M., & Ventura, J. (2024). Unraveling the role of TiO_2 nanoparticles on the optical performance of dark colourants for coatings, *Material Chemistry and Physics*, 316, 129014.

Venkatesan, S., Jerald, J., Sundeep, D., Varadharaj, E. K., & Sastry, C. C. (2022). Evaluation of mechanical and corrosion properties of TiB2-Y2O3 nanocomposite fused bronze metal matrix composite. *Surface Topography Metrology and Properties*, *10*(3), 035003.

Volkov, B. & Pechen, A. (2022). On the detailed structure of quantum control landscape for fast single qubit phase-shift gate generation. Quantum Physics.

Zając, K., Janus, M., & Morawski, A. (2019). Improved Self-Cleaning Properties of Photocatalytic Gypsum Plaster Enriched with Glass Fiber. *Materials*, *12*(3), 357.

Zhang, L., & Chen, L. (2019). A review on Biomedical titanium alloys: recent progress and prospect. *Advanced Engineering Materials*, *21*(4).

Zhang, L., Han, B., Cheng, P., & Hu, Y H. (2018). In-situ FTIR-DRS investigation on shallow trap state of Cu-doped TiO2 photocatalyst, *Elsevier BV*, 341, 21,25.

Zhao, J., Nguyen, D. C. T., Aeerob, Y., & Oh, W., (2019). Novel synthesis of nano needle-like Cu2O-GO-TiO2 and CuO-GO-TiO2 for the high photocatalytic performance of anionic and cationic pollutans. *Solid State Sciences*, 91, 77-88.