DAFTAR PUSTAKA

Ahmed, M. A., Ahmed, M. A., Mohamed, A. A., 2024, Fabrication of NiO/g-C3N4 Z-scheme heterojunction for enhanced photocatalytic degradation of methylene blue dye. *Optical Materials* **151**: 115339. https://doi.org/10.1016/j.optmat.2024.115339

Alagiri, M., Ponnusamy, S., Muthamizhchelvan, C., 2012, Synthesis and characterization of NiO nanoparticles by sol–gel method. *Journal of Materials Science: Materials in Electronics* **23**(3): 728-732. https://doi.org/10.1007/s10854-011-0479-6

Araújo, E. S., Pereira, M. F. G., da Silva, G. M. G., Tavares, G. F., Oliveira, C. Y. B., Faia, P. M., 2023, A Review on the Use of Metal Oxide-Based Nanocomposites for the Remediation of Organics-Contaminated Water via Photocatalysis: Fundamentals, Bibliometric Study and Recent Advances. *Toxics* **11**(8): 658. https://doi.org/10.3390/toxics11080658

Arulkumar, E., Thanikaikarasan, S., Siddhardhan, E. V., 2024, Synthesis and characterization of CuO@NiO/g-C3N4 nanocomposite for photocatalytic and electrochemical application. *Results in Chemistry* **7**: 101439. https://doi.org/10.1016/j.rechem.2024.101439

Balraj, G., Gurrapu, R., Anil Kumar, A., Sumalatha, V., Ayodhya, D., 2022, Facile synthesis and characterization of noble metals decorated g-C3N4 (g-C3N4/Pt and g-C3N4/Pd) nanocomposites for efficient photocatalytic production of Schiff bases. *Results in Chemistry* **4**: 100597. https://doi.org/10.1016/j.rechem.2022.100597

Bhanderi, D., Lakhani, P., Modi, C., 2023, Graphitic carbon nitride (g-C3N4) as an emerging photocatalyst for sustainable environmental applications: a comprehensive review. *RSC Sustainability* **2**: 265-287. https://doi.org/10.1039/d3su00382e

Bunaciu, A. A., UdriŞTioiu, E., Aboul-Enein, H., 2015, X-Ray Diffraction: Instrumentation and Applications. *Critical reviews in analytical chemistry / CRC* **45**: 289-299. https://doi.org/10.1080/10408347.2014.949616

Cai, L., 2014, *Thin Layer Chromatography*. **2014:** 6.3.1-6.3.18. https://doi.org/10.1002/9780470089941.et0603s08

Cao, S., Yu, J., 2014, g-C3N4-Based Photocatalysts for Hydrogen Generation. *The Journal of Physical Chemistry Letters* **5**(12): 2101-2107. https://doi.org/10.1021/jz500546b

Charlena, C., Sugiarti, S., Ardiansyah, D., 2024, Synthesis and Characterization of Copper(II) Oxide (CuO-NP) Nanoparticles using Chemical Precipitation Method. *Jurnal Kimia Mulawarman* **21**: 84. https://doi.org/10.30872/jkm.v21i2.1260

Chen, L., Maigbay, M. A., Li, M., Qiu, X., 2024, Synthesis and modification strategies of g-C3N4 nanosheets for photocatalytic applications. *Advanced Powder Materials* **3**(1): 100150. https://doi.org/10.1016/j.apmate.2023.100150

Dionisio, K., Phillips, K., Price, P., Grulke, C., Williams, A., Şahin Biryol, D., Hong, T., Isaacs, K., 2018, The Chemical and Products Database, a resource

for exposure-relevant data on chemicals in consumer products. *Scientific Data* **5**: 180125. https://doi.org/10.1038/sdata.2018.125

Dong, F., Zhao, Z., Xiong, T., Ni, Z., Zhang, W., Sun, Y., Ho, W.-K., 2013, In Situ Construction of g-C3N4/g-C3N4 Metal-Free Heterojunction for Enhanced Visible-Light Photocatalysis. *ACS Applied Materials & Interfaces* **5**(21): 11392-11401. https://doi.org/10.1021/am403653a

Dong, J., Zhang, Y., Hussain, M. I., Zhou, W., Chen, Y., Wang, L.-N., 2022, g-C3N4: Properties, Pore Modifications, and Photocatalytic Applications. *Nanomaterials* **12**(1): 121. https://doi.org/doi:10.3390/nano12010121

Ellingham, S., Thompson, T., Islam, M., 2017, Scanning Electron Microscopy-Energy-Dispersive X-Ray (SEM/EDX): A Rapid Diagnostic Tool to Aid the Identification of Burnt Bone and Contested Cremains. *Journal of forensic sciences* **63**. https://doi.org/10.1111/1556-4029.13541

Funes-Ardoiz, I., Maseras, F., 2018, Oxidative Coupling Mechanisms: Current State of Understanding. *ACS Catalysis* **8**(2): 1161-1172. https://doi.org/10.1021/acscatal.7b02974

Gusarov, S., 2024, Advances in Computational Methods for Modeling Photocatalytic Reactions: A Review of Recent Developments. *Materials* **17**(9): 2119. https://doi.org/10.3390/ma17092119

Hayat, A., Al-Sehemi, A. G., El-Nasser, K. S., Taha, T. A., Al-Ghamdi, A. A., Jawad Ali Shah, S., Amin, M. A., Ali, T., Bashir, T., Palamanit, A., Khan, J., Nawawi, W. I., 2022, Graphitic carbon nitride (g–C3N4)–based semiconductor as a beneficial candidate in photocatalysis diversity. *International Journal of Hydrogen Energy* **47**(8): 5142-5191. https://doi.org/10.1016/j.ijhydene.2021.11.133

Hong, J., Matsushita, N., Shirai, T., Nakata, K., Terashima, C., Fujishima, A., Katsumata, K. I., 2017, Influence of Surface Morphology and Conductivity on Photocatalytic Performance of Solution-Processed Zinc Oxide Film. *Chemistry – An Asian Journal* **12**(18): 2480-2485. https://doi.org/10.1002/asia.201700807

Idris, A. O., Oseghe, E. O., Msagati, T. A. M., Kuvarega, A. T., Feleni, U., Mamba, B., 2020, Graphitic Carbon Nitride: A Highly Electroactive Nanomaterial for Environmental and Clinical Sensing. *Sensors* **20**(20): 5743. https://doi.org/10.3390/s20205743

Jumardin, Maddu, A., Santoso, K., Isnaeni, 2022, Karakteristik sifat optik nanopartikel karbon (carbon dots) dengan metode uv-vis drs (ultraviolet-visible diffuse reflectance spectroscopy). *JFT: Jurnal Fisika dan Terapannya* **9**: 1-15. https://doi.org/10.24252/jft.v9i1.28815

Kumar, G. S., Reddy, N. R., Kumar, A. S., Reddy, P. M., Prasad Pabba, D., Alsaiari, N. S., Jung, J. H., Joo, S. W., 2024, A vertically aligned flake like CuO/Co3O4 nanoparticle@g-C3N4 ternary nanocomposite: A heterojunction catalyst for efficient photo electrochemical water splitting. *Fuel* **374**: 132402. https://doi.org/10.1016/j.fuel.2024.132402

Kumar, S., Devi, J., Dubey, A., Kumar, D., Jindal, D. K., Asija, S., Sharma, A., 2023, Co(II), Ni(II), Cu(II) and Zn(II) complexes of Schiff base ligands: synthesis, characterization, DFT, in vitro antimicrobial activity and molecular

docking studies. *Research on Chemical Intermediates* **49**(3): 939-965. https://doi.org/10.1007/s11164-022-04941-0

Li, X., Yu, Q., 2023, Effect of precursor types on the structure and properties of g-C_3N_4. *Science and Technology of Energetic Materials* **84**(5): 53-59. https://doi.org/10.34571/stem.84.5_53

Likodimos, V., 2020, Advanced Photocatalytic Materials. *Materials (Basel)* **13**(4): 821. https://doi.org/10.3390/ma13040821

Maged, S., El-Borady, O. M., El-Hosainy, H., El-Kemary, M., 2023, Efficient photocatalytic reduction of p-nitrophenol under visible light irradiation based on Ag NPs loaded brown 2D g-C3N4 / g-C3N4 QDs nanocomposite. *Environmental Science and Pollution Research* **30**(55): 117909-117922. https://doi.org/10.1007/s11356-023-30010-z

Malik, M. A., Dar, O. A., Gull, P., Wani, M. Y., Hashmi, A. A., 2018, Heterocyclic Schiff base transition metal complexes in antimicrobial and anticancer chemotherapy. *Medchemcomm* **9**(3): 409-436. https://doi.org/10.1039/c7md00526a

Meng, D., Gao, S., Cheng, Z., Wang, L., Hu, X., Gao, D., Guo, Q., Wang, X., Wang, M., 2023, Study on CuO/g–C3N4 S–Scheme heterojunction for enhanced visible-light-driven photocatalytic degradation of xanthate. *Optical Materials* **143**: 114259. https://doi.org/10.1016/j.optmat.2023.114259

Morozzi, P., Ballarin, B., Arcozzi, S., Brattich, E., Lucarelli, F., Nava, S., Gómez-Cascales, P. J., Orza, J. A. G., Tositti, L., 2021, Ultraviolet–Visible Diffuse Reflectance Spectroscopy (UV–Vis DRS), a rapid and non-destructive analytical tool for the identification of Saharan dust events in particulate matter filters. *Atmospheric Environment* **252**: 118297. https://doi.org/10.1016/j.atmosenv.2021.118297

Pham, T. H., Viet, N. M., Hoai, P. T. T., Tung, N. H., Tran, H. M., Mapari, M. G., Kim, T., 2023, Synthesis of solar-driven Cu-doped graphitic carbon nitride photocatalyst for enhanced removal of caffeine in wastewater. *Environmental Research* **233**: 116483. https://doi.org/10.1016/j.envres.2023.116483

Ragupathi, V., Raja, M. A., Panigrahi, P., Ganapathi Subramaniam, N., 2020, CuO/g-C3N4 nanocomposite as promising photocatalyst for photoelectrochemical water splitting. *Optik* **208**: 164569. https://doi.org/10.1016/j.ijleo.2020.164569

Sangle, S. L., 2022, *Introduction to Schiff Base*. Schiff Base in Organic, Inorganic and Physical Chemistry. https://doi.org/10.5772/intechopen.108289

Schwarzer, A., Saplinova, T., Kroke, E., 2013, Tri-s-triazines (s-heptazines)—From a “mystery molecule” to industrially relevant carbon nitride materials. *Coordination Chemistry Reviews* **257**(13): 2032-2062. https://doi.org/10.1016/j.ccr.2012.12.006

Sekar, P., Raju, S. K., Kumar, S., 2022, Biological applications of Schiff bases: An overview. *GSC Biological and Pharmaceutical Sciences* **21**: 203-215. https://doi.org/10.30574/gscbps.2022.21.3.0484

Shvalagin, V., Kompanets, M., Kutsenko, O., Kuchmy, S., Skoryk, M., 2020, Photocatalytic Activity of g-C3N4 in the Partial Oxidation of Benzyl Alcohol

Under Visible Light. *Theoretical and Experimental Chemistry* **56**: 111-116. https://doi.org/10.1007/s11237-020-09643-5

Silverstein, R. M., Bassler, G. C., 1962, Spectrometric identification of organic compounds. *Journal of Chemical Education* **39**(11): 546. https://doi.org/10.1021/ed039p546

Titus, D., James Jebaseelan Samuel, E., Roopan, S. M., 2019, *Chapter 12 - Nanoparticle characterization techniques*. Green Synthesis, Characterization and Applications of Nanoparticles. A. K. Shukla and S. Iravani, Elsevier**:** 303-319. https://doi.org/10.1016/B978-0-08-102579-6.00012-5

Varas Concha, F., Guzmán, D., Isaacs, M., Sáez-Navarrete, C., 2021, Title: Hydrogen productivity analysis using low concentration of TiO 2 -Au nanoparticles on a UV-LED based photocatalytic reactor. *Energy Technology* **10**. https://doi.org/10.1002/ente.202100469

Vijayalakshmi, M., Rui, W., Reddy, K. R., Reddy, C. V., Shim, J., 2024, Hierarchical structures of 2D g-C3N4 sheet supported 3D star-shaped flower CuO nanohybrids for improved photoelectrochemical water oxidation and visible light induced photodegradation of antibiotics. *Journal of Environmental Chemical Engineering* **12**(1): 111889. https://doi.org/10.1016/j.jece.2024.111889

Wang, M., Jin, C., Kang, J., Liu, J., Tang, Y., Li, Z., Li, S., 2021, CuO/g-C3N4 2D/2D heterojunction photocatalysts as efficient peroxymonosulfate activators under visible light for oxytetracycline degradation: Characterization, efficiency and mechanism. *Chemical Engineering Journal* **416**: 128118. https://doi.org/10.1016/j.cej.2020.128118

Wu, C., Lu, X., Xu, K., Chen, P., Jia, K., Liu, S., 2014, Facile one step method realizing scalable production of g-C3N4 nanosheets and study of their photocatalytic H2 evolution activity. *Journal of Materials Chemistry A* **2**: 18924-18928. https://doi.org/10.1039/C4TA04487H