

DAFTAR PUSTAKA

- Abdullah, N. A., Bakar, N. A., Shapter, J. G., Salleh, M. M., & Umar, A. A. (2017). Synthesis of silver-platinum nanoferns substrates used in surface-enhanced Raman spectroscopy sensors to detect creatinine. *Advances in Natural Sciences: Nanoscience and Nanotechnology*, 8(2). <https://doi.org/10.1088/2043-6254/aa687f>
- Amelinckx, S., Van Dyck, D., Van Landuyt, J., & Van Tendeloo, G. (2008). *Handbook of Microscopy Set: Applications in Materials Science, Solid-State Physics and Chemistry. Handbook of Microscopy Set: Applications in Materials Science, Solid-State Physics and Chemistry* (Vol. 1–3). <https://doi.org/10.1002/9783527619283>
- Beura, R., Pachaiappan, R., & Thangadurai, P. (2017). A detailed study on Sn 4 + doped ZnO for enhanced photocatalytic degradation. *Applied Surface Science*. <https://doi.org/10.1016/j.apsusc.2017.10.127>
- Blackburn, R. S., & Burkinshaw, S. M. (2002). A greener approach to cotton dyeings with excellent wash fastness. *Green Chemistry*, 4(1), 47–52. <https://doi.org/10.1039/b111026h>
- Chen, S. S., Lin, X. X., Wang, A. J., Huang, H., & Feng, J. J. (2017). Facile synthesis of multi-branched AgPt alloyed nanoflowers and their excellent applications in surface enhanced Raman scattering. *Sensors and Actuators, B: Chemical*, 248, 214–222. <https://doi.org/10.1016/j.snb.2017.03.129>
- Choi, J., Kim, M. J., Ahn, S. H., Choi, I., Jang, J. H., Ham, Y. S., ... Kim, S. K. (2016). Electrochemical CO₂ reduction to CO on dendritic Ag-Cu electrocatalysts prepared by electrodeposition. *Chemical Engineering Journal*, 299, 37–44. <https://doi.org/10.1016/j.cej.2016.04.037>
- Cullity, B. D. (n.d.). “Elements of x-ray diffraction”, 3rd edition Prentice Hall, Upper Saddle River, 2001.
- da Silva, A. H. M., Rodrigues, T. S., da Silva, A. G. M., Camargo, P. H. C., Gomes, J. F., & Assaf, J. M. (2017). Systematic investigation of the effect of oxygen mobility on CO oxidation over AgPt nanoshells supported on CeO₂,

- TiO₂and Al₂O₃. *Journal of Materials Science*, 52(24), 13764–13778.
<https://doi.org/10.1007/s10853-017-1481-z>
- Feng, J. J., Lin, X. X., Chen, L. X., Liu, M. T., Yuan, J., & Wang, A. J. (2017). Ionic liquid-assisted synthesis of composition-tunable cross-linked AgPt aerogels with enhanced electrocatalysis. *Journal of Colloid and Interface Science*, 498, 22–30. <https://doi.org/10.1016/j.jcis.2017.03.042>
- Fredrick, O. O., & Mangaka, C. M. (2017). Electrochemical and optical band gaps of bimetallic silver-platinum varying metal ratios nanoparticles. *African Journal of Pure and Applied Chemistry*, 11(1), 1–8.
<https://doi.org/10.5897/AJPAC2016.0700>
- He, F., Hu, W., & Li, Y. (2004). Biodegradation mechanisms and kinetics of azo dye 4BS by a microbial consortium. *Chemosphere*, 57(4), 293–301.
<https://doi.org/10.1016/j.chemosphere.2004.06.036>
- Inamuddin. (2019). Xanthan gum/titanium dioxide nanocomposite for photocatalytic degradation of methyl orange dye. *International Journal of Biological Macromolecules*, 121, 1046–1053.
<https://doi.org/10.1016/j.ijbiomac.2018.10.064>
- Jiang, X., Fu, G., Wu, X., Liu, Y., Zhang, M., Sun, D., ... Tang, Y. (2018). Ultrathin AgPt alloy nanowires as a high-performance electrocatalyst for formic acid oxidation. *Nano Research*, 11(1), 499–510.
<https://doi.org/10.1007/s12274-017-1658-4>
- Kim, M. J., Park, K. J., Lim, T., Kwon, O. J., & Kim, J. J. (2013). Fabrication of Cu-Ag Interconnection Using Electrodeposition: The Mechanism of Superfilling and the Properties of Cu-Ag Film. *Journal of the Electrochemical Society*, 160(12), D3126–D3133.
<https://doi.org/10.1149/2.020312jes>
- Kohantorabi, M., & Gholami, M. R. (2017). AgPt nanoparticles supported on magnetic graphene oxide nanosheets for catalytic reduction of 4-nitrophenol: Studies of kinetics and mechanism. *Applied Organometallic Chemistry*, 31(11), 1–13. <https://doi.org/10.1002/aoc.3806>
- Ksatriotomo, B., Restu, A., Muarief, Permatasari, A. L., Sugihartono, I., & Budi,

- A. S. (2015). Analisis Korosi pada Lapisan Tipis Komposit Nikel-Nitrida Hasil Elektrodepositasi. *Spektra: Jurnal Fisika Dan Aplikasinya*, 16(1), 39–41.
- Lee, M.-K., & Tu, H.-F. (2008). Au-ZnO and Pt-ZnO Films Prepared by Electrodeposition as Photocatalysts. *Journal of The Electrochemical Society*, 155(12), D758. <https://doi.org/10.1149/1.2990719>
- Liu, J., Wang, X., Lin, Z., Cao, Y., Zheng, Z., Zeng, Z., & Hu, Z. (2014). Shape-Controllable Pulse Electrodeposition of Ultrafine Platinum Nanodendrites for Methanol Catalytic Combustion and the Investigation of their Local Electric Field Intensification by Electrostatic Force Microscope and Finite Element Method. *Electrochimica Acta*, 136, 66–74. <https://doi.org/10.1016/j.electacta.2014.05.082>
- Maiti, S., & Khatua, B. B. (2013). Electrochemical and electrical performances of cobalt chloride (CoCl_2) doped polyaniline (PANI)/graphene nanoplate (GNP) composite. *RSC Advances*, 3(31), 12874–12885. <https://doi.org/10.1039/c3ra41617h>
- Masih, D., Ma, Y., & Rohani, S. (2017). Graphitic C₃N₄based noble-metal-free photocatalyst systems: A review. *Applied Catalysis B: Environmental*, 206, 556–588. <https://doi.org/10.1016/j.apcatb.2017.01.061>
- Mohibbul, M., Bahnemann, D., & Muneer, M. (2012). Photocatalytic Degradation of Organic Pollutants: Mechanisms and Kinetics. *Organic Pollutants Ten Years After the Stockholm Convention - Environmental and Analytical Update*, (November 2015). <https://doi.org/10.5772/34522>
- Nayak, M. K., Singh, J., Singh, B., Soni, S., Pandey, V. S., & Tyagi, S. (2017). *Introduction to semiconductor nanomaterial and its optical and electronics properties. Metal Semiconductor Core-shell Nanostructures for Energy and Environmental Applications*. Elsevier Inc. <https://doi.org/10.1016/B978-0-323-44922-9.00001-6>
- Okumu, F., & Matoetoe, M. (2016). Kinetics and morphological analysis of silver platinum bimetallic nanoparticles. *Acta Metallurgica Sinica (English Letters)*, 29(4), 320–325. <https://doi.org/10.1007/s40195-016-0395-0>
- Oraon, R., De Adhikari, A., Tiwari, S. K., & Nayak, G. C. (2016). Enhanced

- Specific Capacitance of Self-Assembled Three-Dimensional Carbon Nanotube/Layered Silicate/Polyaniline Hybrid Sandwiched Nanocomposite for Supercapacitor Applications. *ACS Sustainable Chemistry and Engineering*, 4(3), 1392–1403.
<https://doi.org/10.1021/acssuschemeng.5b01389>
- Palupi, E. (2006). FOTOKATALISIS MENGGUNAKAN FILM TiO₂. Bogor
- Prado, A. G. S., Bolzon, L. B., Pedroso, C. P., Moura, A. O., & Costa, L. L. (2008). Nb₂O₅ as efficient and recyclable photocatalyst for indigo carmine degradation. *Applied Catalysis B: Environmental*, 82(3–4), 219–224.
<https://doi.org/10.1016/j.apcatb.2008.01.024>
- Putri, N. A., Fauzia, V., Iwan, S., Roza, L., Umar, A. A., & Budi, S. (2018). Mn-doping-induced photocatalytic activity enhancement of ZnO nanorods prepared on glass substrates. *Applied Surface Science*, 439, 285–297.
<https://doi.org/10.1016/j.apsusc.2017.12.246>
- Rodrigues, T. S., Da Silva, A. H. M., Da Silva, A. G. M., Ceara, D. G., Gomes, J. F., Assaf, J. M., & Camargo, P. H. C. (2016). Hollow AgPt/SiO₂nanomaterials with controlled surface morphologies: Is the number of Pt surface atoms imperative to optimize catalytic performances? *Catalysis Science and Technology*, 6(7), 2162–2170.
<https://doi.org/10.1039/c5cy01415h>
- Schwamborn, S., Stoica, L., & Schuhmann, W. (2011). Activation/inhibition effects during the coelectrodeposition of PtAg nanoparticles: Application for ORR in alkaline media. *ChemPhysChem*, 12(9), 1741–1746.
<https://doi.org/10.1002/cphc.201100029>
- Shao, F. Q., Zhu, X. Y., Wang, A. J., Fang, K. M., Yuan, J., & Feng, J. J. (2017). One-pot synthesis of hollow AgPt alloyed nanocrystals with enhanced electrocatalytic activity for hydrogen evolution and oxygen reduction reactions. *Journal of Colloid and Interface Science*, 505, 307–314.
<https://doi.org/10.1016/j.jcis.2017.05.088>
- Shiravand, T., & Azadbakht, A. (2017). Impedimetric biosensor based on bimetallic AgPt nanoparticle-decorated carbon nanotubes as highly

- conductive film surface. *Journal of Solid State Electrochemistry*, 21(6), 1699–1711. <https://doi.org/10.1007/s10008-017-3532-4>
- Suryanarayana. (1998). *X-Ray Diffraction A Practical Approach*.
- Sutanto, H., & Nurhasanah, I. (n.d.). *Teknologi lapisan tipis & aplikasinya*.
- Tan, I. A. W., Hameed, B. H., & Ahmad, A. L. (2007). Equilibrium and kinetic studies on basic dye adsorption by oil palm fibre activated carbon. *Chemical Engineering Journal*, 127(1–3), 111–119. <https://doi.org/10.1016/j.cej.2006.09.010>
- Umar, A. A., Rahmi, E., Balouch, A., Rahman, M. Y. A., Salleh, M. M., & Oyama, M. (2014). Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. *Journal of Materials Chemistry A*, 2(41), 17655–17665. <https://doi.org/10.1039/c4ta03518f>
- Wilson, N. M., Pan, Y. T., Shao, Y. T., Zuo, J. M., Yang, H., & Flaherty, D. W. (2018). Direct Synthesis of H₂O₂on AgPt Octahedra: The Importance of Ag-Pt Coordination for High H₂O₂Selectivity. *ACS Catalysis*, 8(4), 2880–2889. <https://doi.org/10.1021/acscatal.7b04186>
- Yahya, N., Aziz, F., Jamaludin, N. A., Mutalib, M. A., Ismail, A. F., Salleh, W. N. W., ... Ludin, N. A. (2018). PT SC.
- Zangari, G. (2017). *Fundamentals of Electrodeposition. Reference Module in Chemistry, Molecular Sciences and Chemical Engineering*. Elsevier. <https://doi.org/10.1016/B978-0-12-409547-2.11700-7>
- Zhang, P., Zeng, G., Song, T., Huang, S., Wang, T., & Zeng, H. (2019). Design of plasmonic CuCo bimetal as a nonsemiconductor photocatalyst for synchronized hydrogen evolution and storage. *Applied Catalysis B: Environmental*, 242, 389–396. <https://doi.org/10.1016/j.apcatb.2018.10.020>
- Zhang, S., Peng, F., Wang, H., Yu, H., Zhang, S., Yang, J., & Zhao, H. (2011). Electrodeposition preparation of Ag loaded N-doped TiO₂nanotube arrays with enhanced visible light photocatalytic performance. *Catalysis Communications*, 12(8), 689–693. <https://doi.org/10.1016/j.catcom.2011.01.001>