

DAFTAR PUSTAKA

- Agasti, N., Singh, V.K. and Kaushik, N.K., 2015, Synthesis of Water Soluble Glycine Capped Silver Nanoparticles and Their Surface Selective Interaction, *Mater. Res. Bull.*, 64, 17–21.
- Aguilera, L.M.C., Romano, M.F., Gil, M.L.A., Rodriguez, I.N., Hidalgo-Hidalgo de Cisneros, J.L., and Santander, J.M.P., 2011, New, Fast and Green Procedure of Gold Nanoparticles Based on Sonocatalysis, *Ultrason. Sonochem.*, 18, 789-796.
- Alfanaar, R., 2014, Studi Adsorpsi dan Desorpsi Reduktif pada Pembentukan Nanopartikel Emas dari Printed Circuit Boards, *Tesis*, FMIPA Universitas Gadjah Mada, Yogyakarta.
- Andreani, A.S., Adsorpsi Reduktif [AuCl₄]⁻ oleh Asam Askorbat Terimobilisasi pada Mg/Al HT dan *Recovery* Emas Hasil Reduksinya Menggunakan Natrium Sitrat, *Skripsi*, FMIPA Universitas Gadjah Mada, Yogyakarta.
- Ardhayanti, L.I. and Santosa, S.J., 2016, Synthesis of Magnetite-Mg/Al Hydrotalcite and Its Application as Adsorbent for Navy Blue and Yellow F3G Dyes, *Procedia Eng.*, 148, 1380–1387.
- Benavente, M., 2008, Adsorption of Metallic Ions onto Chitosan: Equilibrium and Kinetic Studies, *Thesis*, Departmen of Chemical Engineering and Technology, Royal Institute of Technology, Sweden.
- Birloaga, I., Michelis, I.D., Ferella, F., Buzatu, M., and Veglio, F., 2013, Study on the Influence of Various Factor in the Hydrometallurgical Processing of Waste Printed Circuit Board for Copper and Gold Recovery, *Waste Manage.*, 33, 935-941.
- Bishop, P.T., Ashfield, L.J., Berzins, A., Boardman, A., Buche, V., Cookson, J., Gordon, R.J., Salcianu, C. and Sutton, P.A., 2010, Printed Gold for Electronic Applications, *Gold Bull.*, 43, 181-190.
- Burt, C.M, and Senanayake, G., 2016, Effect of Reductants and Stabilizers on Ageing of Gold Nanoparticles at pH 2–12 and Application of Nano-Gold to Study Non-Cyanide Leaching in Sodium Hypochlorite/Chloride Solutions using UV–Visible Spectroscopy, *Hydrometallurgy*, 164, 166–176.
- Chang, Q., Zhu, L., Luo, Z., Lei, M., Zhang, S., and Tang, H., 2011, Sono-Assisted Preparation of Magnetic Magnesium-Aluminum Layered Double Hydroxids and Their Application for Removing Fluoride, *Ultrason. Sonochem.*, 18, 553-561.

- Fajari, M., Yamini, Y., and Rezaee, M., 2010, Magnetic Nanoparticles: Synthesis, Stabilization, Functionalization, Characterization and Applications, *J. Iran Chem. Soc.*, 7, 1-37.
- Fujiwara, K., Ramesh, A., Maki, T., Hasegawa, H., and Ueda, K., 2007, Adsorption of Platinum (IV), Palladium (II) and Gold (III) from Aqueous Solution onto L-lysine Modified Crosslinked Chitosan Resin, *J. Hazard. Mater.*, 16, 39-50.
- Freudenberger, R., Zielonka, A., Funk, M., Servin, P., Haag, R., Valkova, T. and Landau, U., 2010, Recent Developments in The Preparation of Nano-Gold Composite Coatings, *Gold Bull.*, 43, 169-177.
- Hidaiyanti, R., 2013, Imobilisasi Asam Askorbat pada Mg/Al Hidrotalsit dan Aplikasinya untuk Adsorpsi-Reduktif $[\text{AuCl}_4]^-$, *Tesis*, FMIPA Universitas Gadjah Mada, Yogyakarta.
- Iida, H., Takayanagi, K., Nakanishi, T., and Osaka, T., 2007, Synthesis of Fe₃O₄ Nanoparticles with Various Size and Magnetic Properties by Controll Hydrolysis, *J. Colloid Interface Sci.*, 314, 274-280.
- Iksan, N.A., 2011, Kajian Adsorpsi-Desorpsi $[\text{AuCl}_4]^-$ pada MgAl Hidrotalsit, *Tesis*, FMIPA Universitas Gadjah Mada, Yogyakarta.
- Jain, P.K., Lee, K.S., El-Sayed, I.H. and EL-Sayed, M.A., 2006, Calculated Absorption and Scattering Properties of Gold Nanoparticles of Different Size, Shape, and Somposition: Application in Biological Imaging and Biomedicine, *J. Phys. Chem. B.*, 11, 7238-7248.
- Kimling, J., Mainer, M., Okenve, B., Kotaidis, V., Ballot, H., and Plech, J., 2006, Turkevich Methode for Gold Nanoparticle Synthesis Revisited, *J. Hazard. Mater.*, 198, 206-215.
- Krishnamurthy, S. and Yun, Y., 2012, Recovery of Microbially Synthesized Gold Nanoparticle Using Sodium Citrate an Detergents, *Chem. Eng. J.*, 214, 253-261.
- Lee, J.D., 1994, Concise Inorganic Chemistry, 4th ed., *Chapman & Hall*, London.
- Li, D.X., Li, C.F., Wang, A.H., He, Q. and Li, J.B., 2010, Hierarchical Gold/Copolymer Nano-structures as Hydrophobic Nanotanks for Drug Encapsulation, *J. Mater. Chem.*, 20, 7782-7789.
- Maruyama, T., Fujimoto, Y., and Maekawa, T., 2014, Synthesis of Gold Nanoparticles using Various Amino Acids, *J. Colloid Interface Sci.*, 447, 254-257.

- Meng, J., Yang, G., Yan, L.M., and Wang, X., 2005, Synthesis and Characterization of Magnetic Nanometer Pigmen Fe₃O₄, *Dyes Pigments.*, 66, 109-113.
- Oscik, J., 1982, Adsorption, John Willey & Sons, New York.
- Paclawski, K., and Fitzner, K., 2004, Kinetic of Gold(III) Chloride Complex Reduction Using Sulfur(IV), *Metall. Trans. B.*, 35, 1071-1085.
- Pavlovic, I., Barriga, C., Hermosin, M.C., Cornejo, J., and Ulibari, M.A., 2005, Adsorption of Acidic Pesticides 2,4-D, Clopyratid and Picloran on Calcined Hydrotalcite, *Apply. Clay Sci.*, 30, 125-133.
- Ramesh, Hasegawa, H., Sugimoto, W., Maki, T., and Ueda, K., 2008, Adsorption of Gold(III), Platinum(IV) and Palladium(II) onto Glycine Modified Crosslinked Chitosan Resin, *Biores. Tech.*, 99, 3801-3809.
- Rives, V., and Kannan, S., 2000, Layered Double Hydroxides with The Hydrotalcite-Tipe Structure Containing Cu²⁺, Ni²⁺ dan Al³⁺, *J. Mater. Chem.*, 10, 489-495.
- Rohiman, A., Buchari, Amran, B., Juliastuti, E., dan Idris, I. 2014. Sintesis, Karakterisasi, dan Aplikasi *Gold Nanoparticles* (AuNPs) pada Penumbuhan *Silicon Nanowires* (SiNWs). *Research and Development on Nanotechnology in Indonesia*, 2, 74-82.
- Roto, Tahir, I., dan Sholikhah, U.N., 2008, Sintesis Hidrotalsit Zn-Al-SO₄ sebagai Agen Penukar Anion untuk Aplikasi Pengolahan Polutan Heksacyanoferrat (II), *Indo. J. Chem.*, 8, 307-313.
- Rovita, E., 2013, Imobilisasi Asam Salisilat pada Mg/Al hidrotalsit dan Aplikasinya untuk Adsorpsi-Reduktif [AuCl₄]⁻, *Tesis*, FMIPA Universitas Gadjah Mada, Yogyakarta.
- Salomao, R., Milena, L.M., Wakamatsu, M.H., and Pandolfelli, V.C., 2011, Hydrotalcite Synthesis via Co-Precipitation Reactions using MgO and Al(OH)₃ Precursors, *Ceram. Int.*, 37, 3063-3070.
- Shou, J., Jiang, C., Wang, F., Qiu, M., and Xu, Q., 2015, Fabrication of Fe₃O₄/MgAl-Layered Double Hydroxide Magnetic for The Effective Decontamination of Co(II) from Synthetic Wastewater, *J. Mol. Liq.*, 207, 216-223.
- Silalahi, D.S.V., 2013, Sintesis Magnetit Mg/Al-NO₃ Hidrotalsit (MHT) dengan Metode Kopersipitasi dan Aplikasinya sebagai Adsorben [AuCl₄]⁻. *Skripsi*, FMIPA Universitas Gadjah Mada, Yogyakarta.

- Suh, M.P., Kim, I.S., Shim, B.Y., Hong, D., and Yoon, T.S., 1996, Extremely Facile Template Synthesis of Gold(III) Complexes of a Saturated Azamacrocycle and Crystal Structure of a Six-coordinate Gold(III) Complex, *Inorg. Chem.*, 35, 3595-3598.
- Trifiro, F. dan Vaccari, A., 1996, Comprehensive Supramolecular Chemistry, Penerjemah F. Vogtle, Atwood, J.E.D. Davies, and D. acNiol, Pergamon Press, Oxford., 251-291.
- Turkevich, J., Stevenson, P.C. and Hillier, J., 1951, A Study of The Nucleation and Growth Processes in The Synthesis of Colloidal Gold. *Discuss Faraday Soc.*, 11, 55-75.
- Verma, H. N., Singh, P., and Chavan, R. M. 2014. Gold Nanoparticle: Synthesis and Characterization. *Veterinary World*, 7, 2231-0916.
- Wallace, W.T. and Whetten, R.L., 2002, Coadsorption of CO and O₂ on Selected Gold Clusters: Evidence for Efficient Room-Temperature CO Generation, *J. Am. Chem. Soc.*, 124, 7499.
- Wang, S., Qian, K., Bi, X., and Huang, W., 2009, Influence of Speciation of Aqueous AuCl₄ on the Synthesis, Structure, and Property of Au Colloids, *J. Phys. Chem. C.*, 113, 6505-6510.
- Wang, J., Zhou, J., Li, Z., Liu, Q., and Yang, P., 2010, Design of Magnetic and Fluorescent Mg–Al Layered Double Hydroxides by Introducing Fe₃O₄ Nanoparticles and Eu³⁺ Ions for Intercalation of Glycine, *Mater. Res. Bull.*, 45, 640–645.
- Wangoo, N., Bhasin, K.K., Metha, S. K., and Suri, C. R., 2008, Synthesis and Capping of Water-Dispersed Gold Nanoparticles by an Amino Acid: Bioconjugation and Binding Studies. *J. Colloid. Interf. Sci.*, 323, 247-54.
- Wihadi, M.N.K., 2014, Hidrotalsit Mg/Al-NO₃ sebagai Adsorben untuk Pungut Ulang Logan dari Larutan [AuCl₄]⁻, *Tesis*, FMIPA Universitas Gadjah Mada, Yogyakarta.
- Wu, G., Hao, Y., Zhang, N., Guan, N., Li, L., and Grunert, W., 2014., Oxidative Dehydrogenation of Propane with Nitrous Oxide Over Fe–O–Al Species Occluded in ZSM-5: Reaction and Deactivation Mechanisms, *Micropor. Mesopor. Mat.*, 198, 82–91.
- Xiao, L., Ma, W., Han, M., and Cheng, Z., 2011, The Influence of Ferric Iron in Calcined Nano-Mg/Al Hydrotalcite on Adsorption of Cr (VI) from Aqueous Solution, *J. Hazard. Mater.*, 186, 690–698.

- Yap, C.Y., and Mohamed, N., 2008, Electrogenative Gold Recovery from Cyanide Solution Using a Flow-through Cell with Activated Reticulated Vitreous Carbon, *Chemosphere*, 73, 685-691.
- Zang, Y., Xu, Q., Zhang, S., Liu, J., Zhou, J., Xu, H., and Li, J., 2013, Prepaaration of Thiol-Modified Fe₃O₄@SiO₂ Nanoparticles and Their Application for Gold Recovery From Dilute Solution, *Sep. Purif. Technol.*, 116, 391-397.
- Zhao, P., Li, N., and Astruc, D., 2012, Review State of The Art in Gold Nanoparticle Synthesis, *Coordin. Chem. Rev.*, 257, 638– 665.
- Zhao, S., Yi, H., Tang, X., Kang, D., Wang, H., Li, K., and Duan, K., 2012, Characterization of Zn-Ni-Fe Hydrotalcite-Derived Oxides and Their Application in The Hydrolysis of Carbonyl Sulfide, *Appl. Clay Sci.*, 56, 84-89.
- Zhou, X.C., Xu, W.L., Liu, G.K., Panda, D. and Chen, P., 2010, Size-Dependent Catalytic Activity and Dynamics of Gold Nanoparticles at the Single-Molecule Level, *J. Am. Chem. Soc.*, 132-138.