



## DAFTAR PUSTAKA

- Adamson, A. W., 1990, *Physical Chemistry of Surface*, 5<sup>th</sup> Ed., John Wiley & Sons, New York.
- Afrizal, 2008, *Selulosa Bakterial Nata de Coco Sebagai Adsorben pada Proses Adsorpsi Logam Cr(III)*, Jurusan kimia, FMIPA, Universitas Negeri Jakarta.
- Aji, B. K., dan Kurniawan, F, 2012, Pemanfaatan serbuk biji salak (salacca zalacca) sebagai Adsorben Cr(VI) dengan Metode Batch dan Kolom, *J. Sains Pomits*, 1, 1-6.
- Akita, S., Yang, L., and Takeuchi, H., 1996, Solvent Extraction of Gold(III) from Hydrochloric Acid Media by Nonionic Surfactants, *Hydrometallurgy*, 43, 37-46.
- Alberty, R. A., and Daniels, F., 1992, *Kimia Fisika*, 5<sup>th</sup> ed., Erlangga, Jakarta.
- Alguacil, F.J., Adeva, P., and Alonso, M., 2005, Processing of Residual Gold(III) Solution Via Ion Exchange, *J. Gold. Bull.*, 38, 9-13.
- Al-Duri, B., 1995, A Review in Equilibrium in Single and Multicomponent Liquid Adsorption System, *Review in Chem. Eng.*, 11,101-143.
- Al-Merey, R., Hariri, Z., and Abu, H.J., 2003, Selective Preparation of Gold from Iron One Samples Using Ion Exchange Resin, *Microchem*, 75, 169-177.
- Atkins, P.W., 1999, *Physical Chemistry*, Oxford University Press, London.
- Bird, T., 1993, *Kimia Fisika untuk Universitas*, Cetakan ke-2, PT. Gramedia Pustaka Utama, Jakarta.
- Bulut, E., Ozacar, M., and Sengil, I.A., 2008, Equilibrium and Kinetic Data and Process Design for Adsorption of Congo Red on Bentonite, *J. Hazard. Mater.*, 154, 613-622.
- Castellan, G. W., 1982, *Physical Chemistry, Third Edition*, General Graphic Services, New York.
- Chang, Y.C., and Chen, D.H., 2006, Recovery of Gold(III) Ions by a Chitosan-Coated Magnetic Nano-Adsorbent, *J. Gold.Bull.*, 39, 98-102.
- Chen, Y., Huang, B., Huang, M., and Cai, B., 2011, On the Preparation and Characterization of Activated Carbon from Mangosteen Sheel, *J. Taiwan, Inst, Chem, E.*, 42, 837-942.



- Cordero, B., Loidero, P., Herrero, R., and Vicente, 2004, Biosorption of Cadmium by *Fucus spiralis*, *Environ. Chem.*, 180-187.
- Fessenden, R. J., Fessenden, J. S. (1992), *Kimia Organik*, Jilid 2, Edisi ketiga, penerbit Erlangga, Jakarta.
- Fahrizan M. S., 2008, Potensi Ekstrak Kulit dan Daging Buah Salak Sebagai Antidiabetes, *Skripsi*, Bogor: Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor.
- Gaffney, J.S., Marley, N. A., and Clark, S.B., 1996, *Humic and Fulvic Acids and Organic Colloidal Materials in the Environment*, Chapter 1, American Chemical Society, Washington DC.
- Gomes, C.P., Almeida, M.F., and Laureiro, J.M., 2001, Gold Recovery with Ion Exchange Using Resins, *Sep Purif Technol.*, 24, 35-57.
- Gramatyka, P., Nowosielski, R., dan Sakiewics, P., 2007, Recycling of Waste Electrical and Electronic Equipment, *JAMME*, 20, 535-538.
- Gupta, N., Kushwaha, A.K., Chattopadhyaya, M.C., 2011, Kinetics and Thermodynamics of Malachite Green Adsorption of Banana Pseudo Stem Fibers, *Env. Chem. Res. Lab.*, 3(1), 284-296.
- Gurung, dkk., 2011, Recovery of Au(III) by Using Low Cost Adsorbent Prepared from Persimmon Tannin Extract, *J. Chem. Eng.*, 174, 556– 563.
- Hamamoto, K., Kawakita, H., Ohto, K., and Incue, K., 2009, Polymeritation of Phenol Derivatives by Reduction of Gold Ions to Gold Metal, *React Funct Polym*, 69, 694-697.
- Huang, K., Guo, J., and Xu, Z., 2009, Recycling of Waste Printed Circuit Boards: A Review of Current Technologies and Treatment Status in China, *J. Hazard Mater.*, 164, 299-408.
- Huheey, J.E., E.A. Keiter, and R.L. Keiter, 1993, *Inorganic Chemistry : Principles of Structure and Reactivity*, Harpelcolling College Publisher, New York.
- Husin, G. and C. M. Rosnelly, 2005, *Studi kinetika adsorpsi larutan logam timbal menggunakan karbon aktif dari batang pisang*, Fakultas Teknik Universitas Syiah Kuala Darrusalam, Banda Aceh.
- Kanon, M.Q., Fatimawali., dan Bodhi, W., 2013, Uji Efektivitas Ekstrak Kulit Buah Salak (*Salacca Zalacca*) Terhadap Penurunan Kadar Gula Darah Tikus Jantan Galur Wistar (*Rattus norvegicus*) yang Diinduksi Sukrosa,



*Skripsi*, FMIPA UNSRAT, Manado.

- Kordosky, G.A., Sierakoski, J.M., Virnig, M.J., and Mattison, P.L., 1992, Gold Solvent Extraction from Typical Cyanida Leach Solutions, *Journal of Hydrometallharg*, 30, 291-305.
- Lam, K.F., Fong, C.M., and Yeung, K.L., 2007, Separation of Precious Metals Using Selective Mesoporous Adsorbents, *J. Gold. Bull.*, 40, 192-198.
- Mangallo, B., Susilowati, dan Wati, S.I., 2014, Efektivitas Arang Aktif Kulit Salak Pada Pemurnian Minyak Goreng Bekas, *Chem. Prog.*, 7, 2.
- Marsden, J.O., and House, C.L., 2006, *The Chemistry of Gold Extraction*, 2<sup>nd</sup> ed., *Society for Mining, Metallurgy, and Exploration*, Colorado, USA.
- Misdawati, 2005, *Sintetis Selulosa* Kaproat Melalui Reaksi Interestifikasi Antara Selulosa asetat Dengan Metil Kaproat, *Jurnal Sains Kimia*, 9:38-45.
- Muhdarina, Mohammad, A.W., dan Muchtar, A., 2014, Potensi Adsorpsi Polutan Anorganik oleh Lempung Cengar: Kajian Isoterma dan Mekanisme Adsorpsi Batch Kation Ni(II) di Dalam Media Air, *Repository University of Riau*, 19-28.
- Nikmatin, S., Purwanto, Se., dan Maddu, A., 2010, Analisis Struktur Selulosa Kulit rotan Sebagai Filler Bionanokomposit dengan Difraksi Sinar-X, *Jurnal Sains Materi Indonesia*, 13(2), 97-102.
- Nnorom I.C., Ohakwe J., and Osibanjo O., 2009, Survey of willngess of residents toparticipate in electronic waste recycling in Nigeria:Acase study of mobil phones., *Clear Production*, 17, 1629-1637.
- Ogata, T., and Nakano, Y., 2005, Mechanism of Gold Recovery from Aqueous Solution Using a Novel Tanning Gel Synthesized from Natural Condensed Tannin, *Water. Res.*, 39, 4281-4286.
- Ongondo, F. O., Williams, I. D., dan Cherrett, T. J., 2011, A Global Review of Th e Management of Electrical and Electronic Waste, *Waste Management*, 31, 714-730.
- Oscik, J., 1982, *Adsorption*, Ellis Horwood Limited, England.
- Pangeni, B., Paudyal, H., Inoue, K., Kawakita, H., Ohto, K., Alam, S., 2012, Selective recovery of gold(III) using cotton cellulose treated with concentrated sulfuric acid, *J Cellulose*, 19:381-391.
- Parajuli, D., Adhikari, C.R., Kawakita., H., Kajiyama, K., Ohto, K., dan Inoue, K.,



- 2008, Reduction and Accumulation of Au(III) by Grape Waste: A Kinetic Approach, *React. Funct. Polym.*, 68, 1194-1199.
- Prasasti, D., 2011, Studi Adsorpsi-Reduksi Ion Au(III) pada Asam Humat, Asam Humat Teresterifikasi dan Asam Humat Tereterifikasi, *Tesis*, Kimia FMIPA UGM, Yogyakarta.
- Pramono, A., 2006, *Limbah Elektronik di Indonesia*, Berita Antara Edisi tanggal 20 Desember 2006.
- Qu, R., Sun, C., Wang, M., Ji, C., Xu, Q., Zhang, Y., Wang, C., Chen, H., and ying, P., 2009, Adsorption of Au(III) from Aqueous Solution Using Cotton Fiber/Chitosan Composite Adsorbents, *Journal of Hydrometallurgy*, 100, 65-71.
- Railsback, L. Bruce, 2006, *Some Fundamentals of Mineralogy and Geochemistry*, Department of Geology, University of Georgia Athens, Georgia 30602- 25 01 U.S.A.
- Rivai, H., 1995, *Asas Pemeriksaan Kimia*, Jakarta: Penerbit UI Press.
- Schluep, M., 2009, *Recycling – From E-Waste to Resources*, in *Sustainable Innovation and Technology Transfer Industrial Sector Studies*, UNEP, [http://www.unep.org?PDF/PressReleases/E-waste\\_publication\\_screen\\_FINALVERSION-sml.pdf](http://www.unep.org?PDF/PressReleases/E-waste_publication_screen_FINALVERSION-sml.pdf). Diakses tanggal 22 Maret 2016.
- Sjostrom, E., 1995. *Kimia Kayu: Dasar – dasar dan Penggunaan. Jilid 2*, Yogyakarta, Universitas Gajah Mada Press.
- Soetomo, Moch, H. A., 2001, *Teknik Bertanam Salak.Sinar Baru Algesindo*, ITB, Bandung.
- Solechudin dan Wibisono, 2002, *Buku kerja Praktek*, PT Kertas Lecces Persero, Probolinggo.
- Stum, W., and Morgan, J. J., 1996, *Aquatic Chemistry: Chemical Equilibria in Natural Water*, 3<sup>rd</sup> edition, John Willey and Sons., Inc., New York.
- Svehla, G., 1979, *Buku Teks Analisis Anorganik Kualitatif Makro dan Semimakro*, Edisi kelima, PT. Kalman Media Pustaka, Jakarta.
- Tandy, E., 2012, Kemampuan Adsorben Limbah Lateks Karet Alam Terhadap Minyak Pelumas Dalam Air, *Jurnal Teknik Kimia USU*, Volume 1 No. 2.
- Taufiqu, N., 2007, *Ultrasonic-Milling: A Potential Method in Nanoparticles*



*Production*, Indonesia, Paten No.S00200700080.

- Usher, A., McPhail, D.C., and Brugger, J., 2009, A Spectrophotometric Study of Aqueous Au(III) Halide-Hydroxide Complexes at 25-80 °C, *Geochim.Cosmochim. Ac.*, 73, 3359-3380.
- Vakros, John, Christos Kordulis and Alexis Lycourghiotis, 2002, Potentiometric Mass Titrations: A Quick Scan for Determining The Point of Zero Charge, *Chemical Commun*, 17, 1980-1981.
- Wang, L., Haiqing, P., Song, L., Huahua, Y., Pengcheng, L., and Ronge, X., 2012, Adsorption Properties of Gold into Chitosan Derivative, *Int. J. Biol, Macromol.*, 51 701-704.
- Wang, S., Qian, K., Bi, X., and Huang, W., 2009, Speciation of Aqueous H<sub>2</sub>AuCl<sub>4</sub> on the Syntesis Structure, and Property of Au Colloids, *J. Phys. Chem C.*, 113, 6505-6510.
- Wojnicki, M., Magdalena, L. B., Justyna, G., Krzysztof, P., Krzysztof, J. K., and Krzysztof, F., 2013, Micro-Coninuous Flow Synthesis of Gol Nanoparticles and Integrated Deposiion on Suspended Shets of Graphene Oxide, *J. Che. Eng.*, 225, 597-606.
- Worch, and Eckhard, 2011, *Adsorption Technology in Water Treatment*, Technical University Dresden, Germany.
- Yamashita, M., Ohasi, H., Kobayasi, Y., Okaue, Y., Kurisaki, T., Wakita, H., dan Yokoyama, T., 2008, Coprecipitation of Gold(III) Complex Ions with Manganese(II) Hydroxide and Their Stoichiometric Reduction of Atomic Gold (Au(0)): Analysis by Mossbauer Spectroscopy and XPS, *J. ColloidInterface Sci.*, 319, 25-29.
- Zhao, Y., 2006, The Enrichment and Separation of Race Gold Pt and Pd from the Ores Based on Co-Precipitation, *J. Gold.*, 27, 242-244.
- Zhou, C., and Wu, Q., 2002, Recent Development in Aplications of Cellulose Nanocrystals for Advanced Polymer-Based Nanocomposites by Novel Fabrication Strategies, Nanocrystals-Synthesis Characterization and Applications, *InTech*.