

## DAFTAR PUSTAKA

- Achmad, S.A., 1986, *Kimia Organik Bahan Alam*, Universitas Terbuka, Jakarta.
- 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.
- Alguacil, F.J., Adeva, P., and Alonso, M., 2005, Processing of Residual Gold(III) Solution Via Ion Exchange, *J. Gold. Bull.*, 38, 9-13.
- Alberty, R.A., dan Daniels, F., 1992, *Kimia Fisika*, 5th ed., Erlangga, Jakarta.
- Al-Merey, R., Hariri, Z., and Abu, H.J., 2003, Selective Preparation of Gold from Iron One Samples Using Ion Exchange Resin, *Microchem. J.*, 75, 169-177.
- Atkins, P.W., 1999, *Physical Chemistry*, Oxford University Press, London.
- Arisel, H.C., 1989, *Pengantar Bentuk Sediaan Farmasi*, Edisi 4, UI Press, Jakarta.
- Chaiyut, A., Buasri, N.V., Loryuenyong, E., Phakdeeparaphan, S., Watpathomsub and Kunakemakon, V., 2013. Synthesis of Activated Carbon Using Agricultural Wastes from Biodiesel Production, *Int. J. Chem. Nuclear Metallurgi Material. Eng.*, 17, 1.
- 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*, 42, 837-942.
- Dogra, S.K., dan Dogra, S., 2008, *Kimia Fisik dan Soal-Soal*, (diterjemahkan oleh Mansyur,U.), Penerbit Universitas Indonesia, Jakarta.
- Fan T, Liu Y, Feng B, Zeng G, Yang C, Zhou M, Zhou H, Tan Z, Wang X. 2008. Biosorption of cadmium(II), zinc(II), and lead(II) by penicillium

- simplicissimum: Isoterm, kinetics and thermodynamics. *J. Hazard. Mater.*, 160: 655-661.
- Gaffney, J.S., Marley, N. A., and Clark, S.B., 1996, *Humic and Fulvic Acids and Organik Colloidal Materiaks in the Enviroment*, Chapter 1, American Chemical Society, Washington DC.
- Girgis, Bardie S, Abdel-Nasser A., dan El-Hendawy, 2001, *Porosity Development in Activated Carbons Obtained from Date Pits under Chemical Activation with Phosphoric Acid*, Egypt, Cairo.
- 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.
- Hagerman, A.E., Robbins, C.T., Weerasuriya, Y., Wilson, T.C., and MeArthur, C., 1992, Tannin Chemistry in Relation to Digestion, *J. Range. Manage.*, 45, 57-62
- 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.
- Harborne, J.B., 1987, Metode Fitokimia: *Penuntun Cara Modern Menganalisis Tumbuhan*. Diterjemahkan oleh Padmawinta, K. dan Soediro, Institut Teknologi Bandung Press, Bandung.
- Hendri, Zulfi, M., dan Arianingrum, R, 2010, *Penerapan Teknologi Pemanfaatan Kulit Salak Pada Produk Keramik Guna Peningkatan Usaha Kerajinan Keramik di Kecamatan Jetis*, Kabupaten Bantul, Universitas Negri Yogyakarta, Yogyakarta.
- Hiskey, J.B., 1985, Gold and Silver Extraction: the Application of Heap-Leaching Cyanidation, *Arizona Bureau of Geology and Mineral Technology Field Notes*, 15 (4), 1-5.
- Houghton, P.J., and Rahman, A., 1998, *Laboratoty Handbook for Practination of Natural Extracts*, Chapman and Hall, London.
- Jin, X., Bailey, G.W., Yu, Y.S., and Lynch, A.T., 1996, Kinetics of Single and Multiple Metal Ion Sorption Processes on Humic Substances, *J. Soil Sci.*, 161, 8, 509-520.
- Kanon, M.Q., Fatimawali., dan Bodhi, W., 2013, *Uji Efektivitas Ekstrak Kulit Buah Salak (*Slacca Zalacca* (*Gaertn*) *voss*) Terhadap Penurunan Kadar Gula Darah Tikus Jantan Galur Wistar (*Rattus norvegicus*) yang Diinduksi Sukrosa*, FMIPA Universitas Sam Ratulangi, Manado.

- Kordosky, G.A., Sierakoski, J.M., Virnig, M.J., and Mattison, P.L., 1992, Gold Solvent Exctraction from Typical Cyanida Leach Solutions, *Hydrometallurgy*, 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.
- Lee J. D., 1994, *Concise Inorganic Chemistry, 4th ed*, Chapman & Hall, London.
- 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*, 2nd ed., Society for Mining, Metallurgy, and Exploration, Colorado, USA.
- Nikmatin, S., Purwanto, Se., dan Maddu, A., 2010, Analisis Struktur Selulosa Kulit Rotan Sebagai Filler Bionanokomposit dengan Difraksi Sinar-X, *J. Sains.*, 13(2), 97 – 102.
- 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.
- Pangeni, B., Paudyal, H., Inoue, K., Kawakita, H., Ohto, K., and 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., and 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 Teresterifikasi, *Tesis*, Kimia FMIPA Universitas Gadjah Mada, Yogyakarta.
- 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, *Hydrometallurgy*, 100, 65-71.
- Robinson, T. 1995, *Kandungan Organik Tumbuhan Tinggi*, Edisi VI, ITB, Bandung.
- Rubcumintara, T., 2014, Adsorptive Recovery of Au(III) from Aquous Solution Using Modified Baggase Biosorbent, *Int. J. Chem. Eng. App.*, 6, 95-100.
- Sahputra, F., dan Manda, 2008, Potensi Ekstrak Kulit dan Daging Buah Salak sebagai Antidiabetes, *Skripsi*, FMIPA Institut Pertanian Bogor, Bogor.

- Seader, J.D., Henley, E.J. and Roper Keith, 2011, *Separation Process Principles Chemical and Biochemical Operations*, edisi ketiga, John Wiley & Sons, Inc, USA.
- Sodhi, M.S., and Reimer, B., 2001, Models for Recycling Electronics End-of-life Products, *OR Spektrum*, 23, 97-115.
- Soetomo, M., 2001, *Teknik Bertanam Salak. Sinar Baru Algesindo*, ITB, Bandung.
- Stum, W., dan Morgan, J.J., 1996, *Aquatic Chemistry: Chemical Equilibria in Natural Water.*, 3rd ed., 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.
- Taufiqu, N., 2007, *Ultrasonic-Milling: A Potential Method in Nanoparticles Production*, Indonesia, Paten No. S00200700086.
- Treyball, R.E., 1981, *Mass Transfer Operations*, 3rd ed., Mc Graw-Hill, Singapore.
- Triyono., Setiadji, B., dan Tahir, I., 2000, *Buku Ajar Kinetika Kimia*, Universitas Gadjah Mada, Yogyakarta.
- Usher, A., McPhail, D.C., dan Brugger, J., 2009, A Spectrophotometric Study of Aqueous Au(III) Halide-Hydroxide Complexes at 25-80 °C, *Geochim. Cosmochim. Acta.*, 73, 3359-3380.
- Vogel, 1994, *Qualitative Inorganic Analysis*, Departement of Chemistry Queen University, Northern Ireland.
- Voshchinin, S.A., Bul'ba, V. A., Ostry, I. I., Pereslavytsev, A.V., dan Tresvyatskii, S. S., 2012, Problem of Utilization of Solid Production and Consumption Waster: Plasma Treatment of Solid Waster, *Russ. J. Gen. Chem.*, 82, 4, 785-790.
- Watling K. M., 2007, Spectroelectrochemical Studies of Surface Species in the Gold/Thiosulfate System, *Thesis*, Grffith Science Environment Engineering and Technology, Griffith University, South East Queensland.
- Wang, F., Wang, J., Chen, H., and Dong, S., 2007, Assembly Process of CuHCF/MPA Multyayers on Gold Nanoparticles Modified Electrode and Characterization by Electrochemical SPR, *J. Electroanal. Chem.*, 600, 265-274.
- Wang, L., Halqing, P., Song, L., Huahua, Y., Pengcheng, L., and Range, X., 2012, Adsorption Properties of Gold Onto a Chitosan Derivative, *Int. J. Biol Macromol.*, 51, 701-704.

- Wang, S., Qian, K., Bi, X., and Huang, W., 2009, Speciation of Aqueous  $\text{HAuCl}_4$  on the Synthesis 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-Continuous Flow Synthesis of Gold Nanoparticles and Integrated Deposition on Suspended Sheets of Graphene Oxide, *J. Chem. Eng.*, 225, 597-606.
- Worch, E., 2011, *Adsorption Technology in Water Treatment*, Technical University Dresden, Germany.
- Xu, Y.M., Sakal, T., Tanaka, T., Nonaka, G., and Nishloka, I., 1991, Tanin and Related Compounds CVI: Preparation of Aminoalditol Derivatives of Hydrolysable Tannins Having  $\alpha$  and  $\beta$ -glucopyranose Cores, and its Application to the Structure Elucidation of New Tannins, Reginin A and B, Flosin a Isolated from Lagerstromia Flosreginae Retz, *J. Chem. Pharm Bull.*, 39(3), 639-66.
- Yamashita, M., Ohasi, H., Kobayashi, 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. Colloid Interface Sci.*, 319, 25-29.
- Zein, R., Suhaili, R., Earnestly, F., Indrawati, and Munaf, E., 2010, Removal of Pt(II), Cd(II) and Co(II) from Aqueous Solution Using *Garoinia Mangostana* L., Fruit Shell, *J. Hazard. Mater.*, 181, 52-56.
- Zhao, Y., 2006, The Enrichment and Separation of Rare Gold Pt and Pd from the Ores Based on Co-Precipitation, *J. Gold*, 27, 242-244.