



DAFTAR PUSTAKA

- Adamson, A.W., 1990, *Physical Chemistry of Surface*, 5th ed, John Wiley & Sons, New York.
- Adhikari, C.R., Parajuli, D., Kawakita, H., Chand, R., Inoue, K., and Ohto, K., 2007, Recovery and Separation of Precious Metals Using Waste Paper, *Chem. Lett.*, 36(10), 1254-1255
- 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.
- Al-Duri, B., 1995, A Review in Equilibrium in Single and multicomponent Liquid Adsorption System, *Review in Chem. Eng.*, 11, 101-143.
- Alguacil, F.J., Adeva, P., and Alonso, M., 2005, Processing of Residual Gold(III) Solution Via Ion Exchange, *J. Gold. Bull.*, 38, 9-13.
- Akita, S., Yang, L., and Takeuchi, H., 1996, Solvent Extraction of Gold(III) from Hydrochloric Acid Media by Nonionic Surfactants, *J. Hydrometallurgy*, 43, 37-46.
- 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.
- Ansari, R. dan Sadegh, M., 2007, Application of activated carbon for removal of arsenic ions from aqueous solutions, *E-Journal of Chemistry*, 4, 103–108.
- Ansel, 1989, *Pengantar Bentuk Sediaan Farmasi*, Edisi 4, UI press, Jakarta
- Arrascue, M.L., Garcia, H. M., Horna, O., and Guibal, E., 2003, Gold Sorption on Chitosan Derivatives, *Hydrometallurgy*, 71, 191-200.
- Arsyad, M.M., 2000, *Kamus Kimia Arti dan Penjelasan Istilah*, Gramedia Pustaka Utama, Jakarta.
- Atkins, P.W., 1999, *Kimia Fisika 2*, Erlangga, Jakarta.
- Bird, T., 1985, *Physical Chemistry*, Gramedia, Jakarta.
- Chaiyut, A., Buasri, N.V., Loryuenyong, E., Phakdeepataraphan, 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.



Erdawati., 2008, Kapasitas Adsorpsi Kitosan dan Nanomagnetik Kitosan terhadap Ion Ni(II), *Prosiding Seminar Nasional Sains dan Teknologi Universitas Lampung*, Lampung.

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.

Gaoi, L.D.L., 2001, Studi Awal Pemanfaatan Beberapa Jenis Karbon Aktif Sebagai Adsorben, *Seminar*, FTUI, Depok.

Gardea-Torresdey, J.L., Tiemann, K.J., Parson, J.G., Gamez, G., Herrera, I. And Jose-Yacaman, M., 2002, XAS Investigation into the Mechanism (s) of Au(III) Binding and Reduction by Alfafa Biomass, *Microchem*, J., 71, 193-204.

Girgis, Bardie, S., Abdel-Nasser, A., dan El-Hendaway, 2001, *Porosity Development in Activated Carbons Obtained from Date Pits under Chemical Activation with Phosphoric Acid*, Technol, Egypt., 24, 35-57.

Gomes, C.P., Almeida, M.F., and Laureiro, J.M., 2001, Gold Recovery with Ion Exchange Using Resins, *Sep. Purif. Technol.*, 24, 35-57.

Graf, A. and Koehler, T., 2000, *Oregon Cellulose-Ethanol study.An Evaluation of the potential for ethanol production in Oregon using cellulose-based feedstock*, Oregon Office of Energy, Oregon.

Gramatyka, P., Nowosielski, R., Sakiewicz, P., 2007, Recycling of Waste Electrical and Electronic Equipment, *Journal of Achievements of Materials and Manufacturing Engineering*, 20, 535-538.

Hanamoto, K., Kawakita, H., Ohto, K., and Inoue, K., 2009, Polymerization of Phenol Derivatives by the Reduction of Gold Ions to Gold Metal, *Reac.Func. Polym*, 69, 694-697.

Harumi, M., 2015, Termodinamika dan Isoterm Adsorpsi Ion Au(III) oleh Kulit Buah Manggis (*Garcinia mangostana* L.), *Skripsi*, Kimia FMIPA UGM, Yogyakarta

Houghton, and Rahman, A., 1998, *Laboratory Handbook for Fractination of Natural Extracts*, Chapman and Hall, London.

Huang, X., Wang, Y., Liao, X., and Shi B., 2010, Adsorptive Recovery of Au(III) from Aquesous Solutions Using Bayberry Tannin-immobilized Mesophorus Silica. *J. Hazad. Matter*, 183, 793-798.

Kannan, N., and Veemaraj, T., 2009, Removal of Lead(II) Ions by Adsorption onto Bamboo Dust and Commercial Activated Carbons-A Comparative Study, *E-Journal of Chemistry*, 6, 247–256.

Kanon, M.Q., Fatimawali., dan Bodhi, W., 2013, *Uji Efektivitas Ekstrak Kulit Buah Salak (Slacca Zalacca (Gaertn) voss) Terhadap Penurutan 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 Extraction from Typical Cyanide Leach Solutions, *J. Hydrometallurgy.*, 30, 291-305.

Kundari, N.A., dan Wiyunita, S., 2008, Tinjauan Kesetimbangan Adsorpsi Temabaga dalam Limbah Pencuci dalam IPB dengan Zeolit, *Seminar Nasional IV SDM Teknologi Nuklir – Batan*, Yogyakarta.

Lestari, S., 2010, Pengaruh Berat dan Waktu Kontak untuk Adsorpsi Timbal (II) oleh Adsorben dari Kulit Batang Jambu Biji (Psidium guajaval). *Jurnal Kimia Mulawarman*, 8, 1.

Lelifajri, 2010, Adsorpsi Ion Logam Cu(II) Menggunakan Lignin dari Limbah Serbuk Kayu Gergaji. *Jurnal Rekayasa Kimia dan Lingkungan* , 7(3), 126-129.

Mangallo, B., Susilowati, dan Wati, S.I., 2014, Efektivitas Arang Aktif Kulit Salak Pada Pemurnian Minyak Goreng Bekas, *Chem. Prog.*, 7, 2.

Mary, Magdalena, 2003, *Indonesia Butuh Konsep Pengolahan Limbah Komputer*, Harian Sinar Harapan, Jakarta.

Nakajima, A., Ohe, K., Baba, Y., and Kijima, T., 2003, Mechanism of Gold Adsorption by Persimmon Tannin Gel.. *J. Anal. Sci.*, 19, 1075-107

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.

Ong, S.P., dan Law, C.L., 2009, Mathematical Modelling of Thin Layer Drying of Snakefruit, *Journal of Applied Sciences*, 9(17), 3048-3054.

Oscik, J., 1982, *Adsorption*, Jhon Wiley and Sons, New York.

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., Kuriyama, M., Kawakita, H., Ohto, K., Inoue, K., and Funakoshi, M., 2006 Selective Recovery of Gold by Novel Lignin-Based Adsorption Gels. *Ind. Chem. Res.*, 45, 8-14

Parajuli, D., Kawakita, H., Inoue, K., Ohto, K., and Kajiyama, K., 2007, Perimmon Peel Gel for The Selective Recovery of Gold, *Hydrometallurgy*, 87, 133-139.



Prasasti, D., 2012, Studi Adsorpsi-Reduksi Ion Au(III) Pada Asam Humat, Asam Humat Tererifikasi dan Asam Humat Tererifikasi, *Tesis*, Kimia FMIPA, UGM, 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.

Ramesh, A., Hasegawa, H., Sugimoto, W., Maki, T., and Ueda, K., Adsorption of Gold Au(III), Platinum(IV) and Palladium(II) Onto Glycine Modified Crosslinked Chitosan Resin, 2008, *Bioresour. Technol.*, 99, 3801-3809

Reza, E., 2002, Studi Literatur Perancangan Awal Alat Adsorpsi Regenerasi Karbon Aktif, *Seminar*, FTUI, Depok.

Rubcumintara, T., 2014, Adsorptive Recovery of Au(III) form Aquous Solution Using Modified Baggase Bioadsorbent, *Int. J. Chem. Eng. App.*, 6, 95-100.

Rusdiarso, B., 2007, Studi Ekstraksi Pelarut Emas(III) dalam Larutan Konsentrat Tembaga PT Freeport dengan 8-Metilxantin, *Berkala MIPA UGM*, 17(2), 15-21.

Sahputra, F., dan Manda, 2008, Potensi Ekstrak Kulit dan Daging Buah Salak sebagai Antidiabetes, *Skripsi*, FMIPA Institut Pertanian Bogor, Bogor.

Sawitri, Dewi, E., dan Sutrisno, T., 2006, *Adsorpsi Khrom (VI) dari Limbah Cair Industri Pelapisan Logam dengan Arang Eceng Gondok (Eichornia crassipes)*, Jurusan Teknik Kimia, Fakultas Teknik, Universitas Diponegoro Semarang.

Schuiling, D.L., and Moga, J.P., 1992, *Salacca Zalacca (Gaertner) Voss Edible Fruit and Nuts*, Research Prosea Foundation, Bogor.

Sediawan, W.B., 2000, Berbagi Teknologi Proses Pemisahan, *Prosiding Presentasi Ilmiah Daur Bahan Bakar Nuklir V*, Jakarta.

Shadily, H., 1973, *Ensiklopedia Umum*, Kanisius, Yogyakarta.

Soetomo, M., 2001, *Teknik Bertanam Salak. Sinar Baru Algesindo*, ITB, Bandung.

Stumm, W., dan Morgan, J.J., 1996, *Aquatic Chemistry: Chemical Equilibria in Natural Water.*, 3rd ed., John Wiley and Sons., Inc., New York.

Sulistyawati, S., 2008, Modifikasi tongkol jagung sebagai adsorben logam berat timbal (II), Institut Pertanian Bogor, Bogor.

Supriyadjaja, A., dan Widodo, 2009, *Studi Penggunaan H₂O₂ pada Peralutan Bijih Emas Sukabumi Selatan dengan Larutan Sianida*, LIPI, Sukabumi Selatan.

Sumardjo, D., 2008, *Pengantar kimia*, Buku Kedokteran EGC, Jakarta

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.
- Torres, E., Mata., Y.N., Bla'zquez, M.L., Mun'oz, J.A., Gonzalez, F., and Ballester, A., 2005 Gold and Silver Uptake and Nanoprecipitationon Calcium Aliginate Beads, *Langmuir*, 21:7951-7958.
- 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.
- Voshchinin, S.A., Bul'ba, V.A., Ostry, I.I., Pereslavtsev, A.V., dan Tresvyatskii, S.S., 2012, Problem of Utilization of Solid Production and Consumption Waste: Plasma Treatment of Solid Waste, *Russ. J. Gen. Chem.*, 82, 4, 785-790.
- Wang, L., Haiqing, P., Song, L., Huahua, Y., Pengcheng, L., and Ronge, X., 2012, Adsorption Properties of Gold onto a Chitosan Derivative, *Int. J. Biol. Macromol.*, 51, 701-704.
- White, J.G., 2000, *Oregon Perspective on Cellulose-to-Ethanol*, Oregon Office of Energy, Oregon.
- Wojnicki, M., Magdalena, L.B., Justyna, G., Krzysztof, P., Krzysztof, J.K., and Krzysztof, F., 2013, Micro-Continous Flow Synthesis of Gol Nanoparticles and Integrated Deposition on Suspended Shets of Graphene Oxide, *J. Chem. Eng.*, 225, 597-606.
- Worch, E., 2011, *Adsorption Technology in Water Treatment*, Technical University Dresden, Germany.
- Yanuar, H.M., Santi, D., dan Janvieter, M., 2009, *Adsorpsi ion Pb²⁺ dalam Air dengan Jerami Padi Percikan*, Universitas Cendrawasih. Papua.
- Yap, C.Y. and Mohammed, N., 2008, Electronegative Gold Recovery From Cyanide Solutions Using a Flow-Through Cell with Activated Retivolated Vitreous Carbon, *Chemosphere*, 73, 685-691.
- Xiong, Y., Adhikari, C.R., Kawakita, H., Ohto., K., Inoue, K., and Harada, H., 2009, Selective Recovery of Precious Metals by Persimmon Waste Chemically Modified with Dimethylamine, *Bioresour. Technol.*, 100, 4083-4089.
- 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 Applications of Cellulose Nanocrystals for Advanced Polymer-Based Nanocomposites by Novel Fabrication Strategies, *Nanocrystals—Synthesis Characterization and Applications*, Dr. Sudheer Neralla ed., *InTech*, DOI. 10.5772/48727.