

## DAFTAR PUSTAKA

- Abdullah, Mikrajuddin & Khairurrijal. 2008. "Review: Karakterisasi Nanomaterial", *Jurnal Nanoscience dan Teknologi* vol.2, No.1.
- Ahalya, N and T.V.Ramachandra. 2003. *Biosorption of heavy Metals. Reseach Journal Of Chemistry And Environment*. **7** (4):71-78.
- Allen, S.J., G. Mckay. and J.F. Porter. 2004. Adsorption isotherm models for basic dye adsorption by peat in single and binary component systems. *Journal of Colloid and Interface Science* **280**: 322-333.
- Atkins. 1999. *Kimia Fisik III*. Jakarta: Erlangga.
- Boinski, F. 2010. "Study of the mechanisms involved in reactive silica". *Materials Chemistry and Physiscs* **122**: 311-315.
- Buhani and Suharso. 2009. Immobilization of *Nannochloropsis sp* biomass by sol-gel technique as adsorbat of metal ion Cu(II) from aqueous solution. *Asian J. Chemist.*, **21** (5) : 3799-3808.
- Buhani, Narsito, Nuryono, and Kunarti, E.S. 2009. *Amino and Merkapto-Silika Hybrid for Cd (II) Adsorption in Aqueous Solution*. *Indo. J. Chem.* **9** (2): 170-176.
- Buhani, Suharso and Sumadi. 2010. Adsorption Kinetics and Isotherm of Cd (II) Ion on *Nannochloropsis sp* Biomass Imprinted Ionic Polymer. *Desalination*. **259**: 140-146
- Buhani, Suharso, H.Satria. 2011. Hybridization of *Nannochloropsis sp* Biomass-Silika Through Sol-gel Process to adsorb Cd(II) ion in Aqueous Solution. *Eur.J.Chem.* Vol. **51**, pp. 467-476.
- Cabrera, L., S. Gutierrez., N. Menendez., M.P. Morales., P. Herrasti. 2008. "Magnetite nanoparticles: electrochemical synthesis and characterization", *Electrochimica Acta*, **53**: 3436-3441.
- Darmono. 2005. *Toksikologi Logam Berat, Surabaya. Dalam: Kurniawan, 2008. Hubungan Kadar Pb dalam Darah dengan Profil Darah pada Mekanik Kendaran Bermotor di Kota Pontianak*. Program Pascasarjana Universitas Diponegoro Semarang:11

- Enymia, S. dan Sulistriani, N. 1998. *Pembuatan Silika Gel Kering Dari Sekam Padi Untuk Bahan Pengisi Karet Ban. J. K. Indo.* **7**(1&2): 1-9.
- Fahmiati, Nuryono dan Narsito. 2004. *Kajian Kinetika Adsorpsi Cd(II), Ni(II) dan Mg(II) Pada Silika Gel Termodifikasi 3-Merkapto-1,2,4-Triazol.* *Alchemy.* **3**(2): 22-28.
- Farook, A. and S. Ravendran. 2000. *Saturated Fatty Acids Adsorption By Acidified Rice Hull Ash. J. Chem. Soc.* **77**: 437-440.
- Hancock, I.C., DR. 1996. *Symposium and Workshop on Heavy Metal Bioaccumulation*, IUC Biotechnology, Gadjahmada University, Yogyakarta
- Harris, O. P. and J. G. Ramelow. 1990. Binding of Metal Ions by Particulate Quadricauda. *Environ Sci and Technology.* **24** : 220-227.
- Harsono, H. 2006. *Pembuatan Silika Abu Amorf dari Abu Sekam Padi.* <http://www.unej.ac.id/fakultas/mipa/volume3.no2/harsono.pdf>.9
- Holmes. 1964. *Pembuatan Silika Abu Amorf dari pasir kuarsa. Journal of HazardousMaterial,* **B92**, 253-262
- Hook, J. R., & H.E. Hall. 1991. *Solid state physics. 2nd edition*, John Willey & Sons: England/Chichester, hal: 241
- Husin, H dan C.M. Rosnelly. 2005. *Studi Kinetika Adsorpsi Larutan Logam Timbal (Pb) Menggunakan Karbon Aktif dari Batang Pisang.* (Tesis). Fakultas Teknik Universitas Syiah Kuala. Banda Aceh.
- Jalali, R., Ghafourian, H., Davarpanah, S.J., and Sepehr, S. 2002. "Removal and Recovery of Lead Using Nonliving Biomass of Marine Algae", *Journal of HazardousMaterial,* **B92**, 253-262
- Jeon, C. 2011. *Adsorption characteristic of cooper ions using magnetically modified medicinal stones, Journal of Industrial and Engineering Chemistry,* **17**: 1487-1493.
- Jovita, T.M. dan Y. Yennie. 2003. *Kandungan Logam Berat Pada Kerang Darah (Anadara Granosa), Air Laut dan Sedimen di Perairan Tanjung Balai dan Bagan Siapi-Api,* Jurnal Penelitian Perikanan Indonesia Volume 9 Nomor 5. Universitas
- Khopkar, S.M. 2001. *Konsep Dasar Kimia Analitik.* UI Press. Jakarta.
- Lan, E.H., Dave, B.C., Fikoto, J.M., Dunn, B., Zink, J.I., and Valentine, J.S. 1998. *J. Mater. Chem,* **9**,45-53.

- Lin, Y., Chen, H., Lin, K., Chen, B., and Chiou, C. 2011. *Application of magnetic particles modified with amino groups to adsorb copper ions in aqueous solution*, *J. Environ. Sci.*, **23**:44-50.
- Mahan, C. A. and J.A. Helcombe. 1989. The Journal of Evaluation of The Metal Uptake of Several Algae Strain in Multicomponent Matrixultizung Inductively Coupled Plasma Emission Spektrofotometry. *Analytic Chemist.* **61**: 624-627.
- Marganof, *Potensi Limbah Udang sebagai Penyerap Logam Berat*, Institut Pertanian Bogor, Bogor, 2003.
- Miettinen. 1977. *Inorganic trace Element as Water pollutan to health and Aquatic Biota*. New York: Academy press
- Musrifatun. 2012. *Isoterm Adsorpsi Ion Ni(II) dan Zn(II) Pada Material Alga Chaetoceros sp Yang Dimodifikasi Dengan Pelapisan Silika-magnetit*. Universitas Lampung: Bandar Lampung
- Oscik, J. 1982. *Adsorption. Ellis Horwood Limited*. England.
- Oxtoby, D. 1990. *Prinsip-prinsip Kimia Modern*. Erlangga. Jakarta. Hal. 285-290
- Palar, H. 2004. *Pencemaran dan toksikologi logam berat*. Rineka cipta. Jakarta. p. 78-86.
- Peng, Q., Liu, Y., Zeng, G., Xu, W., Yang, C., and Zhang, J. 2010. *Biosorption of Copper (II) Immobilizing Saccharomyces cerevisiae on the surface of chitosan coated magnetic nanoparticle from aqueous solution*, *J. Hazard. Mater.*, **177**: 676-682.
- Prassas, M. 2002. *Silica Glass from Aerogels*, <http://www.solgel.com>
- Pratiwi. 2000. *Biologi*. Erlangga. Jakarta Press, Inc. San Diego, California. pp 839-880.
- Putra, S.E. 2006. *Tinjauan Kinetika dan Termodinamika Proses Adsorpsi Ion Logam Pb, Cd, dan Cu oleh Biomassa Alga Nannochloropsis sp. Yang Di Immobilisasi Polietilamina-Glutaraldehyd*. Laporan Penelitian. Universitas Lampung. Bandar Lampung
- Punkels. 2008. *Kegunaan silicagel*. From <http://punkels.wordpress.com/2008/12/21/21/kegunaan-silica-gel/>, 21 juni 2012
- Rahaman, M.N. 1995. *Ceramics Pressing and Sintering*. Departement of Ceramics Engineering University of Missouri-Rolla Rolla Missouri. Hal 214-219

- Rousseau, R. W. 1987. *Handbook Of Separation Process Technology*, John Wiley and Sons Inc., United States, pp.67.
- Sadhori, S.N. 1995. "Budidaya Rumput Laut" p. 29, Balai pustaka, Jakarta
- Saito, Taro. 1996. *ebook Kimia Anorganik*, Tokyo: Iwanami Publishing Company
- Sasongko, A. 2002. *Studi Adsorpsi Ion Logam Kadmium (Cd) PADA Biomassa Alga Chlorella sp Yang Terimmobilisasi Silika Gel*. Skripsi Universitas Lampung. Bandar Lampung.
- Suciani, S. 2007. *Kadar Timbal dalam Darah Polisi Lalu Lintas dan Hubungannya dengan Kadar Hemoglobin (Studi Pada Polisi Lalu Lintas yang Bertugas di Jalan Raya Kota Semarang)*. Diambil dari : [http://eprints.undip.ac.id/15877/1/Sri\\_Suciani.pdf](http://eprints.undip.ac.id/15877/1/Sri_Suciani.pdf) [Diakses 3 Maret 2011].
- Schubert, U., and Husing, N. 2000. *Synthesis of Inorganic Material*. Willey-VCH Verlag GmbH. D-69469 Wernbeim. Federal Republik of Germany.
- Suhendrayatna. 2001. *Bioremoval Logam Berat Dengan Menggunakan Mikroorganisme: Suatu Kajian Kepustakaan*. Diakses Tanggal 15 Januari 2012 Pukul 21:15 WIB. (<http://www.google.com/biosorpsi-logam-berat>)
- Teja., Aryn S. and Koh, P.Y, "Synthesis, properties, and applications of magnetic iron oxide nanoparticles", *Progrees in Crystal Growth and Characterization of Materials*, **xx**: 1-24. 2008.
- Trevan, D. 1990. *Immobilized Enzymes*, John Wiley and Sons, New York, p. 14-15.
- Widyawati, P.S. 2006. Kinetika Adsorpsi Ion Fe(II) oleh Biomassa *Chaetoceros* sp. *Unika Widya Mandala Surabaya*
- Yuliasari, L. 2003. *Studi Penentuan Logam Berat Timbal (Pb) dan Kadmium (Cd) Dalam Organ Tubuh Ayam Broiler Secara Spektrofotometri Serapan Atom*. (Skripsi). FMIPA Unila. Bandar Lampung.