

DAFTAR PUSTAKA

- Aftabtalab, A., Sadabadi, H., 2015., Application of Magnetite Nanoparticles in Hexavalent Chromium Adsorption from Aquatic Solution., *J.Pet Environ Biotechnol.*, ISSN: 2157-7463, vol 6, issues 1, p.200.
- Ahmad dan Hilda, M., 2012, *Bahan Beracun Lepas Kendali*, Greenpeace Asia Tenggara.
- Alvarez, G.S., 2004, Synthesis, Characterization, and Applications of Iron Oxide Nanoparticles, *Doctoral Thesis*, Stockholm University, Sweden.
- Askeland, D.R. dan Pule, P.P., 2003, *The Science and Engineering of Material, 4th ed.*, Brook/Cole Publishing, Thomson Learning.
- Asmin, L.O., 2015, Fabrikasi Nanopartikel Zinc Ferrite (ZnFe₂O₄) dengan Metode Koplesipitasi dan Karakterisasi Struktur Kristal dan Sifat Kemagnetannya, *Tesis*, FMIPA, Universitas Gadjah Mada, Yogyakarta.
- Asri, N.S., 2015, Studi Adsorpsi Logam Cu(II), Fe(II) dan Ni(II) pada Limbah Cair dengan Menggunakan Nanopartikel Cobalt Ferrite (CoFe₂O₄) dan Sistem High Gradient Magnetic Separation (HGMS), *Tesis*, FMIPA, Universitas Gadjah Mada, Yogyakarta.
- Astuti, F.P., 2013, Studi Penurunan Kadar Logam Besi (Fe) dan Logam Kobalt (Co) pada Limbah Cair dengan Sistem Purifikasi Menggunakan Adsorben Nanopartikel Fe₃O₄, *Skripsi*, FMIPA, Universitas Gadjah Mada Yogyakarta.
- Bandyopadhyay, M dan Dattagupta, S., 2006, Memory in Nanomagnet System: Superparamagnetism Versus Spinglass Behavior, *Physical Review B* 74, 21491.
- Blundell, S., 2001, *Magnetism in Condensed Matter*, Oxford University Press, New York.
- Brown, G.G., 1995., *Unit Operation*, Mc Grawhill International Inc., Book Co, Singapore.
- Callister, W.D.Jr., dan Rethwisch, DG., 2009, *Materials Science and Engineering An Introduction*, Eighth Edition, United States of America, John Wiley & Sons. Inc.
- Carabante, I., 2012, Arsenic (V) adsorption on Iron Oxide: Implification for soil remediation and water purification, *Doctoral thesis*, Universitet stryckreriet, Lulea, Sweden.

- Chin, S.F., 2009, Superparamagnetic nanoparticles for Biomedical applications, *Ph.D Thesis*, University of Western Australia.
- Coey, J.M.D., 2009, *Magnetism and Magnetic Materials*, United States of America, Cambridge University Press.
- Cornell, R.M. dan Schwertmann., 2003, *The Iron Oxides*, Wiley-VCH GmbH & Co.KGaA.
- Cotton, F.A. dan Wilkinson, G., 1988, *Advanced Inorganic Chemistry*, Fifth Edition, John Wiley & Sons, Inc, Canada.
- Davis, J., 1997, Removing iron and manganese from natural waters, *Journal Diversey Water Technology.*, Incm Chargrin Falls, OH. p.45.
- Day, R.A.Jr. dan Underwood, A.L., 2001, *Analisis Kimia Kuantitatif* (diterjemahkan oleh Iis Sopyan), Edisi 6, Penerbit Erlangga, Jakarta.
- Drofenik, M., Kristl, M., Makovec, D., Jaglicic, Z., dan Hanzel, D., 2008, Preparation and Study of Zinc Ferrite Nanoparticles With a High Magnetization, *Materials and Manufacturing Processes*, 23(6) : 603-606.
- Ebner, A.D., Ritter, J.A., Ploehn, H.J., 1997, Feasibility and Limitation of nanolevel high gradient magnetic separation, *Journal Separation Purification Technology.*, vol 11, p.199.
- Ghomri, F., Lahsini, A., Laajeb, A., dan Adddaou, A., 2013, The Removal of Heavy Metal Ions (Copper, Zinc, Nickel and Cobalt) by Natural Bentonite, *Larhyss Journal*, ISSN 1112-3680, PP 37-54.
- Gubin, S. P., Koksharov, Yu. A., Khomutov, G. B., Yurkov, G. Yu., 2005, Magnetic nanoparticles: preparation, structure and properties, *Russian Academy of Sciences and Turpion Ltd*, vol. 74, no. 6, pp. 489 – 520.
- Hakim, L., dan Supriyatna, Y.I, 2009, Pengambilan Logam Ni dalam limbah elektroplating dengan proses koagulasi dan flokulasi, Universitas Diponegoro, Semarang.
- Halliday, D., Resnick, R., dan Walker, J., 1989, *Fundamental of Physics*, John Wiley & Sons, Inc, Canada.
- Hoffman, R.V., 2001, e-EROS Encyclopedia of Reagenys for Organic Synthesis [online] tersedia <http://online.library.wiley.com/doi/10.1002/047084289x.rc247/>
- Hu, J., Lo, M.C., Chen, G., 2004, Removal of Cr(Vi) by magnetite, *Journal Water Science Technology.*, 50(12), pp 139-146.

- Hu, J., Lo, Irene M.C., dan Chen, G, 2007, Comparative Study of Various Magnetic Nanoparticles for Cr(VI) Removal, *Journal Separation and Purification Technology*, vol. 56, pp. 249-256.
- Jia, Z., Qin, Q., Liu, J., Zhang, X., hu, R., Li, S., Zu, Ro., 2015, The Sunthesis of Hierarchial Zinferit architecture and their application for Cr(VI) Adsorption removal from Aqueous Solution, *Journal Superlattices and Microstructures*, pp 174-187
- Jiles, DC., 1998, *Introduction to Magnetism and magnetic Materials*, CRC Press, Boca Raton.
- Jönsson, P., 2002, Anisotropy, Disorder, and Frustration in Magnetic Nanoparticles Systems and Spin Glasses, *Ph.D. Disertasi*, Uppsala University, Swedia.
- Jun, Y. W., Seo, J. W dan Cheon, J., 2008, NanoscalingLaws of Magnetic Nanoparticles and Their Applicabilitiesin Biomedical Science, *Acc. Chem. Res.*, vol 41, pp 179-189.
- Kaminsky, M.D, Landsberger, S., Nuñez, L., Vandegrift, G.F., 1997, Sorption capacity of ferromagnetic microparticles coated with CMPO, *J.Sep.Sci.Technol.*, vol 32, issues 1-4, pp 115-126.
- Khophar, S.M., 2003, *Konsep Dasar Kimia Analitik*, Diterjemahkan oleh Saptorahardjo, UI-Press, Jakarta.
- Lucas, W., Yeary, Ji-Woon, M., Lonnie, J.L., James, R., T., Claudia, J., R., Phelps, T., J., 2005, Magnetic Properties of Biosinthesized Magnetite Nanoparticle, *IEEE Transaction on Magnetic*, Vol.41, No. 12, Issue 12, pp 4384-4389.
- Manjusha, A., Gandhi, N., Sirisha, D., 2012, Removal of Cr(VI) by Magnetite Nanoparticle, *Journal Water sci Tech*, vol.50, pp 139-146.
- Nakashima, S., Fujita, K., Tanaka, K., Hirao, K., Yamamoto, T., dan Tanaka, S., 2007, First-principles XANES simulations of spinel zinc ferrite with a disordered cation distribution, *Physical Review B*, 75, 174443.
- Noll, K.E., Gounaris.V., and Hou, W.S., 1992, *Adsorption Technology for Air and water Pollution Control*, Lewis Publisher Inc Michigan.
- Nur, A., 2009. *Alat-alat analisa*. Surakarta: Universitas Negeri sebelas Maret
- Oliveira, L.C.A., Rios, R.V., Fabris, J.D., Sapag, K., garg, V.K., Lago, R.M., 2003, Clay-iron oxide magnetic composites for the adsorption of contaminants in water , *Journal Appl. Clay Sci.* Vol.22, 169.

- Palanisamy, K.L., Devabharathi, V., Sundaram, M., 2013, The Utility of Magnetite Iron Oxide Nanoparticles stabilized by Carrier oils in Removal of Heavy Metals from waste Water, *Journal Applied Natural and science* ISSN 2321-8851, Vol.1.
- Palar, H., 2004, *Pencemaran dan Toksikologi Logam Berat*. Jakarta : Rineka Cipta.
- Pankhurst, Q.A., Connolly, J., Jones, S.K., dan Dobson, J., 2003, Application of Magnetic Nanoparticle in Biomedicine, *Journal of Physics D: Applied Physics*, 36, R167-R181.
- Prasetya, D., Darminto., baqiya M.A., 2010, Efek Pengadukan dan Variasi pH pada sintesis Fe₃O₄ dari pasir besi dengan metode Kopresipitasi, FMIPA ITS, Surabaya.
- Puri, R.K., dan Babbar, V.K., 1997. *Solid State Physics*, New Delhi, S. Chand & Company Ltd.
- Putri, T. E., 2015, Studi Adsorpsi Logam Tembaga (Cu), Besi (Fe), dan Nikel (Ni) Dalam Limbah Cair Buatan Menggunakan Adsorben Nanopartikel Magnetik *Magnesium Ferrite* (MgFe₂O₄), *Tesis*, FMIPA, Universitas Gadjah Mada, Yogyakarta.
- Qu, Y., Yang, H., Yang, N., Fan, Y., Zhu, H., dan Zou, G., 2006, The effect of reaction temperature on the particle size, structure and magnetic properties of coprecipitated CoFe₂O₄ nanoparticles,” *Materials Letters*, vol. 60, no. 29-30, pp. 3548–3552
- Shah, M.A., 2010, *Principles of Nanosiemce and Nanotechnology*, India, Narosa Publishing House, 199.
- Shahraki, R.R dan Ebrahimi, M., 2013, Synthesis of Superparamagnetic Zinc Ferrite Nanoparticles at Room Temperature, *Journal of Nanostrutures*, 2, 413-416.
- Shen, T., 1994, Superparamagnetic Contrast Agents for Magnetic Resonance Imaging, *Doctoral Thesis*, Massachusitts Institute of Technology, USA.
- Shen, Y.F., Tang, J., Nie, Z.H., Wang, Y.D., Ren, Y., Zuo, L., 2009, Preparation and Application of Magnetite Fe₃O₄ nanoparticles for waste water Purification, *Sep.Purif.Tech*, vol.68, pp 312-319.
- Siswandono dan Soekardjo., 1995, *Kimia Medisinal*, Airlangga University press, Surabaya.

- Suhargo, 1994, Adsorpsi dan desorpsi Uap Air Suhu Tetap pada Biji Kopi Robusta, *Thesis*. Yogyakarta : Fakultas Teknologi Pertanian UGM.
- Sukardjo, 1990, *Kimia Anorganik*, Rineka Cipta, Jakarta.
- Suhendrayatna., 2001, *Heavy Metal Bioremoval by microorganism*, A literature study. On-Air: Biotek untuk Indonesia Abad 21.
- Terangna., 1991, *Water Pollution, the course of the environment impact assesments*, Institute of Ecology : Padjajaran University.
- Treybal, R.E., 1980, *Mass Transfer Operation*, 3 ed, p 187, Mc Grawhill International Inc. BookCo, Singapore.
- Willett, T, C., 2009, Magnetic Adsorbents Displaying Switchable Ion-Exchange Behaviour: *Thesis*. University of Birmingham, Inggris.
- Xu, C., 2004, Modification of Superparamagnetic Nanoparticles for Biomedical Applications, *Ph.D.Dissertation*, M.Phil., Hong Kong University of Science & Technology, Hong Kong.
- Yean, S. dan Cong, L. 2005. Effect of Magnetite Particle Size on Adsorption and Desorption of Arsenite and Arsenate, *Journal of Material Research Society*, vol.20, Issue 12, pp 3255-3264.
- Zhao, L., Li, X., Zhao, X., Qu, Z., Yuan, D., Hu, X., dan Chen, G., 2010, Synthesis, Characterization and Adsorptive Performance of MgFe₂O₄ Nanosphere for So₂ removal, *Journal of Hazardous Materials*, vol. 184, pp.704-709.