



DAFTAR PUSTAKA

- Acharyulu, S.R., Gomathi, T., Sudha, P.N., 2013, Physico-chemical Characterization of Cross Linked Chitosan-polyacrylonitrile Polymer Blends, *Der Pharmacia Lettre*, 5(2), 354-363.
- Alandis, N.M., Aldayel, O.A., Mekhemer, W.K., Hefine, J.A., Jokhab, H.A., 2010, Thermodynamic and Kinetic Studies for The Adsorption of Fe(III) and Ni(II) Ion From Aqueous Solution Using Natural Bentonite, *J. Disper. Sci.Technol.*, 31, 1526-1534.
- Azlan, K., Saime, W.N.W., Ken, L.L., 2009, Chitosan and Chemically Modified Chitosan Beads for Acid Dyes Sorption, *J. Environ. Sci.*, 21(3), 296-302 .
- Bandyopadhyay, S., Ghosh, K., Varadachari, C., 2014, Multimicronutrient Slow-Release Fertilizer of Zinc, Iron, Manganese, and Copper, *J. Chem. Eng.*, 1-7.
- Bansiwal, A.K., Rayalu, S.S., Labhasetwar, N.K., Juwarkar, A.A., Deevotta, S., 2006, Surfactant-Modified Zeolite as a Slow Release Fertilizer for Phosphorus, *J. Agric. Food. Chem.*, 54, 4773-4779.
- Berger, J., Reist, M., Mayer, J.M., Felt, O., Peppas, N.A., Gurny, R., 2004, Structure and Interaction in Covalently and Ionically Crosslinked Chitosan Hydrogels for Biomedical Application, *Eur. J. Pharm. Biopharm.*, 57, 19-34.
- Bhatia, S.C., Ravi, N., 2000, A Magnetic Study an Fe-Chitosan Complex and Its Relevance to Other Biomolecules, *Biomacromolecules*, 3(1), 413-417.
- Bhattacharya, I., Bandyopadhyay, S., Varadachari, C., Ghosh, K., 2007, Development of A Novel Slow-Releasing Iron-Manganese Fertilizer Compound, *Ind. Eng. Chem. Res.*, 9(46), 2870-2876.
- Champagne, L.M., 2008, The Synthesis of Water Soluble N-Acyl Chitosan Derivatives for Characterization as Antibacterial Agents, *Dissertation*, Chemistry Department of B.S. Xavier University, Louisiana.
- Chandra, P.K., Ghosh, K., Varadachari, C., 2009, A New Slow-Releasing Iron Fertilizer, *Chem. Eng. J.*, 155, 451-456.
- Cho, D.W., Chon, C.M., Kim, Y., Jeon, B.H., Schwartz, F.W., Lee, E.S., 2011, Adsorption of Nitrate and Cr(VI) by Cationic Polymer-Modified Granular Activated Carbon, *Chem. Eng. J.*, 175, 298-305.



- Cho, D.W., Jeon, B.H., Chon, C.M., Kim, Y., Schwartz, F.W., 2012, A Novel Chitosan/Clay/Magnetite Composite for Adsorption of Cu(II) and As(V), *Chem. Eng. J.*, 654-662.
- Cornell, R. M., Posner A. M. and Quirk J. P., 1976, Kinetics and Mechanisms of The Acid Dissolution of Goethite (α -FeOOH), *J. Inorg. Nucl. Chem.*, 38, 563.-567.
- Cornell, R. M. and Schwertmann, 2003, *The Iron Oxides: Structure, Properties, Reactions, Occurrences and Uses*, edisi 2, WILEY-VCH verlag GmbH & Co. KGaA, Weinheim.
- Dakora, F.D., Phillips, D.A., 2002, Root Exudates as Mediators of Mineral Acquisition in Low-Nutrient Environment, *Plant Soil*, 245, 35-47.
- Darder, M., Colilla, M., Ruiz-Hitzky, E., 2003, Biopolymer-Clay Nanocomposites Based on Chitosan Intercalated in Montmorillonite, *Chem. Mater.*, 20(15), 3774-3780.
- Dardjito, Setyaningsih, T. and Khunur, M. M., 2011, Study of Fe (III) Impregnated Chitosan as Adsorbent of Carmine Dyes, *J. Appl. Sci. Res.*, 7(12), 2042- 2046.
- Del Pino, J.S.N., Padron, I.J.A, Martin, M.M.G., Hernandez, J.E.G., 1995, Phosphorus and Potassium Release from Phillipsite-Based Slow-Release Fertilizer, *Journal of Controlled Release*, 3, 25-29.
- Evans, J.R., Davids, W.G., MacRae, J.D., Amirbahman, A., 2002, Kinetics of Cadmium Uptake by Chitosan-Based Crab Shells, *Water Res.*, 36, 3219-3226.
- Futalan., C.M., Tsai, W.C., Lin, S.S., Hsien, K.J., Dalida, M.L., Wan, M.W., 2012, Copper, Nickel and Lead Adsorption from Aqueous Solution Using Chitosan-Immobilized on Bentonite in A Ternary System, *Sustain. Environ. Res.*, 22(6), 345-355.
- Guibal, E., Milot, C., Tobin, J.M., 1998, Metal-Anion Sorption by Chitosan Beads: Equilibrium and Kinetic Studies, *Ind. Eng. Chem. Res.*, 37,1454-1463.
- Hernandez, R.B., Franco, A.P., Yola, O.R., Delgado, A.L., Felcman, J., Recio, M.A.L., Merce, A.L.R., 2008, Coordination Study of Chitosan and Fe³⁺, *J. Mol. Struct.*, 877, 89-99.
- Irianto, H.E., Muljanah, I., 2011, Proses dan Aplikasi Nanopartikel Kitosan sebagai Penghantar Obat, *Squalen*, 1(6), 1-8.



- Kochba, M., Gambash, S., Avnimelech, Y., 1990, Studies on Slow-Release Fertilizers: 1. Soil Moisture and Water Vapour Pressure, *Soil Sci.*, 149, 339-343.
- Li, J., Yao, J., Li, Y., Shao, Y., 2012, Controlled Release and Retarded Leaching of Pesticides by Encapsulating in Carboxymethyl Chitosan/Bentonite Composite Gel, *J. Environ. Sci. Heal.*, 47, 795-803.
- Li, B., Shan, C.L., Zhou, Q., Fang, Y., Wang, Y.L., Xu, F., Han, L.R., Ibrahim, M., Guo, L.B., Xie, G.L., Sun, G.C., 2013, Synthesis, Characterization, and Antibacterial Activity of Cross-Linked Chitosan-Glutaraldehyde, *Mar. Drugs*, 11, 1534-1552.
- Lu, G., Yao, X., Wu, X., Zhan, T., 2001, Determination of The Total Iron by Chitosan-Modified Glassy Carbon Electrode, *Microchem. J.*, 69, 81-87.
- Navarro, R., Guzman, J., Saucedo, I., Revilla, J. and Guibal, E., 2006, Recovery of Metal Ions by Chitosan: Sorption Mechanisms and Influence of Metal Speciation, *Macromol. Biosci.*, 3, 552-561.
- Ngah, W.S.W., Ghani, S.A., Hoon, L.L., 2002a, Comparative Adsorption of Lead(II) on Flake and Bead-Types of Chitosan, *J. Chin. Chem. Soc.*, 49, 625-628.
- Ngah, W.S.W., Ghani, S.A., Kamari, A., 2004, Adsorption Behaviour of Fe(II) and Fe(III) Ions in Aqueous Solution on Chitosan and Cross-linked Chitosan Beads, *Bioresource Technol.*, 1-8.
- Permanasari, A., Siswaningsih, W., Wulandari, I., 2010, Uji Kinerja Adsorben Kitosan-Bentonit terhadap Logam Berat dan Diazinon secara Simultan, *Jurnal Sains dan Teknologi Kimia*, 2(1), 121-134.
- Prayongphan, S., Ichikawa, Y., Kawamura, K., Suzuki, S., Chae, B.G., 2006, Diffusion with Micro-sorption in Bentonite: Evaluation by Molecular Dynamics and Homogenization Analysis, *Comput. Mech.*, 37, 369-380.
- Purnawan, C., Wibowo, A.H., Samiyatun, S., 2012, Kajian Ikatan Hidrogen Dan Kristalinitas Kitosan Dalam Proses Adsorpsi Ion Logam Perak (Ag), *Molekul*, 2(7), 121-129.
- Qunaibit, M.H., Mekhemer, W.K., Zaghoul, A.A., 2004, The Adsorption of Cu(II) ions on Bentonite-A Kinetic Study, *J. Colloid Interf. Sci.*, 283, 316-321.



- Ray, S. K., Varadachari, C. and Ghosh, K., 1997, Novel Slow-Releasing Micronutrient Fertilizers 2: Copper Compounds, *J. Agric. Food Chem.*, 45, 1447–1453.
- Sheta, A.S., Falatah, A.M., Al-Sewailem, M.S., Khaled, E.M. and Sallam, A.S.H., 2003, Sorption Characteristics of Zinc and Iron by Natural Zeolite and Bentonite, *Micropor. Mesopor. Mat.*, 61, 127–136.
- Silva, S.M.L., Braga, C.R.C., Fook, M.V.L., Raposo, C.M.O., Carvalho, L.H., Canedo, E.L., 2012, *Application of Infrared Spectroscopy to Analysis of Chitosan/Clay Nanocomposites*, *Infrared Spectroscopy - Materials Science, Engineering and Technology*, Prof. Theophanides Theophile (Ed.), ISBN: 978-953-51-0537-4, InTech.
- Sposito, G., 1983, Infrared Spectroscopic Study of Adsorbed Water on Reduce-Charge Na/Li-Montmorillonites, *Clays and Clay Minerals*, 1(31), 9-16.
- Tan, W., Zhang, Y., Szeto, Y.S., Liao, L., 2008, A Novel Method to Prepare Chitosan/Montmorillonite Nanocomposites in The Presence of Hydroxy-Aluminum Oligomeric Cations, *Compos. Sci. Technol.*, 68, 2917-2921.
- Wang, S.F., Shen, L., Tong, Y.J., Chen, L., Phang, I.Y., Lim, P.Q., Liu, T.X., 2005, Biopolymer Chitosan/Montmorillonite Nanocomposites: Preparation and Characterization, *Polym. Degrad. Stabil.*, 90, 123-131.
- Wu, F., Tseng, R., Juang, R., 2000, Comparative Adsorption of Metal and Dye on Flake and Bead-types of Chitosans Prepared from Fishery Wastes, *J. Hazard. Mater.*, 73, 63–75.
- Zhang, Y., Wang, D., Liu, B., Gao, X., Xu, W., Liang, P., Xu, Y., 2013, Adsorption of Fluoride from Aqueous Solution Using Low-Cost Bentonite/Chitosan Beads, *J. Anal. Chem.*, 4, 48-5.3