

DAFTAR PUSTAKA

- Agustina, S., Swantara, I.M.D., dan Svartha, I.M., 2015, Isolasi Kitin, Karakterisasi dan Sintesis Kitosan dari Kulit Udang, *Jurnal Kimia*, 271-278
- A.O.A.C, 2005, *Official Methods of Analysis of the Association of Official Analytical Chemist. 14th edition*, A. O. A. C, Inc. Arlington.
- Azhar, M., Efendi, J., Syofeni, E., Marfa, R., dan Novelina, S. (2010). Pengaruh Konsentrasi NaOH dan KOH terhadap Derajat Deasetilasi Kitin dari Limbah Kulit Udang. *Eksakta*, 1, 1-8.
- Bhuvaneshwari, D. Sruthi, V. Sivasubramanian, Niranjana Kalyani and J. Sugunabai. 2007. Development and Characterization of Chitosan Film. *International Journal of Engineering Research and Application (IJERA)*, 1(2): 292 - 299.
- Bhuvana, 2006, Studies on Frictional Behaviour of Chitosan- Coated Fabrics, *Aux, Res. J, Vol 6 (4) :123-130*
- Brine CJ, Sandford PA, Zikakis JP. *Advances in Chitin and Chitosan*. London and New York: Elsevier; 1992.
- Cervera, Fernandez, M., Heinamaki, J., Rasanan, M., Maunu, S.L., Karjalainen, M., & Yliruusi J. (2004). Solid-state Characterization of Chitosans Derived from Lobster Chitin. *Carbohydrate Polymers*, 58, 401–408.
- Chang KLB., Tsai G., Lee J., Fu W., 1997, Heterogenous N-deacetylation of chitin in alkaline solution. *Carbohydr Res* 303:327-332.
- Darmono. 1995. *Logam dalam Sistem Biologi Makhluk Hidup*. UI Press. Jakarta.
- Eiren, G., Fransiana dan Matheis, F.J.D.P , Tanasale, 2007, Studi Kinetika Adsorbsi Biru Metilena pada Kitin dan Kitosan, *Jurnal Sains Mipa*, Vol.13 No.3 Hal 171-17
- Feng, Ko H., Charles, S., And Prashant, N.K., 2010, Novelsynthesis Strategies for Naturalpolymer and Compositebiomaterials as Potential Scaffoldor Tissue Engineering, *Phil.Trans. R. Soc.A.*, 368, 1981-1987.
- Hargono dan Djaeni, M., 2003, *Pemanfaatan Kitosan dari Kulit Udang sebagai Pelarut Lemak*, Prosiding Teknik Kimia Indonesia, Yogyakarta, MB 11.1 - MB 11.5.
- Harrington RE. 1984. Viscosity. Di dalam: Gruenwedel DW, Whitaker JR (eds.). *Food Analysis: Principles and Techniques*, Vol 2, *Physicochemical Techniques*. Marcel Dekker, Inc, New York

- Hirano, S., 1986. Chitin and Chitosan. In *Ullmann's Encyclopedia of Industrial Chemistry. Republic of Germany*. 5th ed.A6: 231 – 232.
- Hui, P., S.L. Meena, G. Singh, R.D. Agarwal, S. Prakash.2010. Synthesis of Hydroxyapatite Bio-ceramic Powder by Hydrothermal Method. *Journal of Mineral & Materials Characterization & Engineering*, 9(8). 683-692
- Hwang J, Hong S, Kim C. 1997. Effect of Molecular Weight and NaCl Concentration on Dilute Solution Properties of Chitosan. *Journal Food Sci Nutri* 2:1-5
- Irwan, S., Firman dan Haris, Z., 2010. Karakterisasi Fisikokimia dan Fungsional Kitosan yang Diperoleh dari Limbah Cangkang Udang Windu. *Jurnal Teknik Kimia Indonesia*, 9(1): 11 - 18.
- Jin, Li and Renbi Bai, 2002. Machanisms of Lead Adsorption on Chitosan/PVA Hydrogel Beads. *Langmuir*. 18 (25) : 9765-9770
- Juang, S.R. Wu, C.F & Tseng, L.R. 2002. Use of chemically modified chitosan beads for Sorptio And enzyme immobilation. *Advances in enviromental Research*. Taiwan.
- Khan, T. A., Peh, K. K., dan Chang, H. S., 2002, Reporting Degree of Deacetylation Value of Chitosan; the Influence of Analytical Methods, *Journal Pharm Sci*, 5 (3) : 205-212
- Knoor, D, 1984, Functional Properties of Chitin and Chitosan. *Journal Food.Sci.* Vol 47: 36-38
- Laksita D. C. W. 2009. Sintesis dan kajian sifat listrik membran kitosan dengan variasi konsentrasi kitosan [Skripsi]. Fakultas Matematika dan Ilmu Pengetahuan Alam, Departemen Fisika.: Institut Pertanian Bogor. Bogor.
- Laksono, Endang W., 2009, Kajian Terhadap Aplikasi Kitosan Sebagai Adsorben Ion Logam Dalam Limbah Cair, *Jurnal pendidikan Kimia*, FMIPA, UNY, Yogyakarta.
- Mekawati, Fachriyah, E. dan Sumardjo, D., 2000, Aplikasi Kitosan Hasil tranformasi, *Jurnal Sains and Matematika*, 8(2), 51-54.
- Murniati, D., dan Mudasir, 2003, Isolasi Kitin dari Cangkang kepiting Laut (Portunus Pelagicus Linn) serta Pemanfaatannya untuk Adsorpsi Fe dengan Pengopleks 1,10-Fenantrolin, *Valensi*, Vol.3 No.1 (15-21)
- Muzzarelli, R., 1986, *Filmogenik Properties of Chitin/chitosan.* , vol 3, 147, Editor for Muzzarelli, R., Jeniaux, G, Ed Plenum Press, New York.
- Nather, A., Zameer, A., 2005. *Bone Grafts And Bone Substitute – Basic Science and Clinical Applications*. World Scientific Publishing Co. Pte. Ltd

- Parulian, A. 2009. Monitoring dan Analisis Kadar Aluminium (Al) dan Besi (Fe) Pada Pengolahan Air Minum PDAM Tirtanadi Sunggal. [Thesis] Pascasarjana Universitas Sumatera Utara (USU). Medan.
- Pujiastuti, P. 2001. *Kajian Transformasi Khitin Menjadi Kitosan Secara Kimia dan Enzimatik*. Seminar Nasional Jurusan Kimia, Surakarta, 13 Oktober 2001, Jurusan Kimia F MIPA UNS
- Pradip Kumar Dutta, Jog Deep Dutta and V. S. Tripathi. 2004. Chitin & Chitosan: chemistri, properties and applications. *Journal of Scientific & Industrial Research*, 63: 20 - 31.
- Radojevic, M., dan Bashkin, V.N., 1999, *Practical Environmental Analysis*, Royal Society of Chemistry, United Kingdom
- Rahayu,L.H dan S.Purnavita. 2007. *Optimasi Pembuatan Kitosan dari Kitin Limbah Cangkang Rajungan (Portunus pelagicus) untuk Adsorben Ion Logam Merkuri*:Semarang
- Rahman, I.A. and Saad, B. 2003. Utilization of Guava Seeds as a Source of Activated Carbon for Removal of Methylene Blue from Aqueous Solution. *Malaysian Journal.Chemistry.*, 5, 8-14
- Rege, P. R. dan Lawrence H. B., 1999, Chitosan Processing: Influence of Process Parameters During Acidic and Alkaline Hydrolysis and Effect of the Processing Sequence on the Resultant Chitosan's Properties, *Carbohydr. Res.*, 321, 235–245.
- Roberts.G.A. 1991. *Chitin Chemistry*. Nottingham Politechnic. Mc Millan. USA.
- Tang ZX, Shi LE, Qian JQ, 2007, Neutral Lipase from Aqueous Solution on Chitosan Nano-Partikel, *Biochemical Engineering Journal*, 34 : 217-223.
- Sanjaya, I., dan Yuanita, L., 2007. Adsorpsi Pb(II) oleh Kitosan Hasil Isolasi Kitin Cangkang Kepiting Bakau (Scylla), *Jurnal Ilmu Dasar*, 8 (1) : 30-36
- Saraswathy, G., Pal, S., Rose, C., dan Sastry, T.P., 2001, A-Novel Bioinorganic Bone Implant Containing Deglued Bone Chitosan and Gelatine, *Bull, Mter Sci.Vol 24 No.4*
- Slamet, Soemirat, Juli. 2006. *Kesehatan Lingkungan*. Gadjah Mada Univ Press. Yogyakarta.
- Suci Apriani, 2011, Analisis Logam Berat Besi (Fe) dan Kromium (Cr) pada Sumur Artesis dan Sumur Penduduk (Cincin) dengan menggunakan Metode Spektrofotometri Serapan Atom (SSA) di Kelurahan Rejo Sari Kecamatan Tenayan Raya Kota Pekanbaru, [Skripsi], Program Studi Pendidikan Kimia Fakultas Tarbiyah dan Keguruan, Universitas Islam Negeri Syarif Kasim Riau, Pekanbaru

- Sudarmaji, 1994, *Prosedur Analisa untuk Bahan Makanan dan Pertanian*, Liberty, Yogyakarta.
- Sugita P., Wukirsari, T., Sjahriza, A., Wahyono, D., 2009. *Kitosan Sumber Biomaterial Masa Depan*. IPB Pres. Bogor.
- Sugiyo, W., Mahatmani, W.F., Alauhdin, M., Sintesis Komposit Kitosan –Silika dan Aplikasinya sebagai Adsorben Zat Warna Tekstil, *Sainsteknol* Vol.9 No.1
- Suhardi, 1992, *Buku monograf khitin dan khitosan*, PAU UGM, Yogyakarta.
- Sunardi. 2006. 116 *Unsur Kimia*. Yrama Widya. Bandung
- Tammi, T., Suaniti, N.M., Manurung, M., 2013, Variasi Konsentrasi dan pH terhadap Kemampuan Kitosan dalam Mengadsorbsi Metilen Biru, *Jurnal Kimia* hal 11-18
- Tao-Lee, S., Long Mi, F., Ju Shen., dan Shing Shyu., 2001, Equilibrium and Kinetic Studies of Copper(II) Ion Uptake by Chitosan-Tripolyphosphate Chelating Resin, *Journal Polymer*, 42 : 1879-1892
- Tolaimatea, A.; Desbrieresb, J.; Rhazia, M., dan Alaguic, A., 2003, Contribution to the preparation of chitins and chitosans with controlled physico-chemical properties, *Polym. J.* , 44, 7939–7952.
- Vipin Bansal, Pramod K. Sharma, Ninin Sharma, Om Prakash Pal and Rishabha Malviya. 2011. Applications of Chitosan and Chitosan Derivatives in Drug Delivery. *Advances In Biological Research*, 5(1): 28 - 37.
- Wang W, Bo S, Li S, Qin W. 1991. Determination of Mark-Houwink equation for chitosans with different degrees of deacetylation. *Int J Biol Macromol*, 13:281-285.
- Wiyarsi. A dan Priyambodo.E, *Pengaruh Konsentrasi Kitosan dari Canglang terhadap Efisiensi Penyerapan Logam Berat*, Jurusan Pendidikan Kimia, FMIPA UNY, Yogyakarta.