

## DAFTAR PUSTAKA

- Abdullah, Mikrajuddin dan Khairurrijal. 2009. Karakterisasi Nanomaterial. Bandung : Institut Teknologi Bandung.
- Angka SL, Suhartono MT. 2000. Pemanfaatan Limbah Hasil Laut. Bioteknologi Hasil Laut. Bogor : Pusat Kajian Sumber Daya Pesisir dan Lautan , Institut Pertanian Bogor.
- Atkins, PW. 1990. Kimia Fisika Edisi ke IV. Jakarta : Erlangga.
- Bastaman S. 1989. Studies on Degradation and Extraction of Chitin and Chitosan form Prawn Shells (*Nephrops norvegicus*). Tesis, The Queen's University of Belfast.
- Begin A, Marie RVC. 1999. Antimicrobial films produced from chitosan. *Journal of Biological Macromolecules* 26: 63-67.
- Bough WA. 1975. Treatment of food processing waste with chitosan and nutritional evaluation of coagulated by products. Di dalam : *Proceeding of the 1st International Conf. Of Chitin Chitosan. Mit Sea Grant Program Cambridge. Mass*, <http://www.elsevier.com/locate/ijbiomac> diakses 5 September 2004.
- Brinker, C.J, dan Scherer, W.J, 1990, *Sol-Gel Science : The physics and Chemistry of Sol-Gel Processing*, Academic Press, San Diego.
- Brzeski MM. 1987. Chitin and chitosan pathing waste to good use. *Majalah Info fish* 5 (87).
- Emma, dkk, 2010, Sintesis Kitosan, poli ( 2-amino-2deoksi-D-Glukosa ), Skala Pilot Project dari Limbah Kulit Udang sebagai Bahan Baku Alternatif Pembuatan Biopolimer; Jurusan teknik kimia, Fakultas teknik; Universitas Surabaya.
- Haryadi, 2006, *Teknologi Pengolahan Beras*, Gajah Mada Universitas Press, ( UI Press ), Jakarta.  
<http://www.starberita.com.2010>
- Jal, P.K, patel, s, dan Mirsha, B.K, 2004, *Chemical Modification of Silica by immobilization of Functional Groups for Extractive concentration of Metal Ions*, *Talanta*, 62, 1005-1028.

- Jhonson EL, Peniston QP. 1982. Utilization of shellfish waste for chitin and chitosan production. Di dalam ; Martin RE Flick GJ, Hebard CE, Ward DR, editor. Chemistry and Biochemistry of Marine Food Products. Westport Connecticut: AVI Publishing Company. hlmn 415-422.
- Karmas E. 1982. Meat Poultry and seafood Technology Recent Development Of Food. New Jersey: Rutgers University. Park Ridge.
- Kalpathy U., Proctor, A., and Shultz, J., 2000. A simple Method For Production Of Silica From Rice Hull Ash, Bioresource Technology, 73, 257-262.
- Khopkar, SM. 1990. Konsep Dasar Kimia Analitik. Jakarta: UI-Press.
- Knorr D. 1982. Functional properties of chitin and chitosan. Journal of Food Science 48: 36-41.
- Knorr D. 1984. The use of chitinous polymer in food. J. Food Tech 38:85-94.
- Kumar MNVR. 2000. Chitin and chitosan fibres: An overview on chitin and chitosan applications, reactive & func. Polym. [ April 2003 ]
- Laksmono, J.A. 2002. Pemanfaatan Abu Sekam Padi Sebagai Bahan Baku Silika. Seminar Tantangan Penelitian Kimia dalam Era Globalisasi dan Era Super Informasi. Gd. Widya Graha-LIPI. Jakarta, 17 September 2002.
- Narsito, Nuryono, Suyanta., (2005), Imobilisasi Senyawa Amin pada Silika Gel dari Abu Sekam Padi Melalui Proses Sol-Gel dan Kinetika Adsorpsi Ion Logam Divalen, Penelitian Fundamental Perguruan Tinggi UGM, Yogyakarta.
- Ockerman HW. 1992. Fishery by-products. Di dalam: Hall GM editor. Fish Processing Technology. New York : VCH Publisher, Inc.
- Ornum JV. 1992. Shrimp waste must it be waste?. Info Fish 6: 48-52
- Oscik, J. 1982. Adsorption. Ellis Horwood Limited. England.
- Purwatiningsih. 1992. Isolasi khitin dan senyawaan kimia dari limbah udang windu ( penaeus monodon ). Buletin Kimia no 8 th 1992. Bogor: FMIPA IPB.
- Rinaudo, M., Milas, M., Desbriers J. 1997. In : Goosen, M.F.A., editor. "Applications of chitin and chitossan".Lancaster: Technomic, 89-102.
- Sandford PA, Huchtings GP. 1987. Chitosan and natural cationic biopolimer, commercial application. Di dalam : M Yalpani, editor. Industrial

Polysaccharides Proceeding of The Symposium on The Application and Modification of Industrial Polysaccharides: New York. 5-7 April 1987. New York : Elseiver Sci. Co.Inc

Scott, R.P.W., 1993, Silica Gel and Bonded Phases : Their Production, Properties and Use in LC, Jhon Wiley and Sons, Toronto.

Shahidi f, Janak KVA, You JJ. 1999. Food Aplications of Chitin and Chitosan. Food Sci and Technology 10 : 37-51.

Sembodo, S.T.B., (2006), Model Kinetika Langmuir untuk Adsorpsi Timbal pada Abu Sekam Padi, FT, UNS, Ekuilibrium Vol.5, No.i., 28-33. (<http://si.uns.ac.id/profil/uploadpublikasi/ekuilibrium/2006vol%205%200/Model%20Kinetika%20Langmuir%20untuk%20Adsorpsi%20Timbal%20pada%20Abu%20Sekam%20Padi.pdf>), diakses pada tanggal 03 Juni 2013.

Sihombing, Sabar. 2011. Perkembangan Keefektivitas Arang Aktif dan Silika Gel dari Sekam Padi sebagai Adsorben logam Cu(II). Skripsi UNIMED. MEDAN.

Silverstein R. M., G.C. Bassler, dan T.C. Morrill. 1981. Spectrometric Identification of Organic Compounds. New York: Jhon Wiley and Sons Inc.

Simatupang. Lisnawaty. 2007. Interaksi Simultan Antara Mg(II), Zn(II), Ni (II), Cd(II) dan 3 Aminopropiltrimetoksisilan yang Diimobilisasikan pada Silika Melalui Proses Sol-Gel. Tesis UGM. Yogyakarta.

Suhartono MT. 1989. Enzim dan Bioteknologi. Bogor: Pusat Antar Universitas Bioteknologi, Institut Pertanian Bogor.

Suptijah P, Salamah E, Sumaryanto H, Purwaningsih S, Santoso J. 1992. Pengaruh berbagai isolasi khitin kulit udang terhadap mutunya. Laporan Penelitian Bogor : Fakultas Perikanan dan Ilmu Kelautan , Institut Pertanian Bogor.

Yataman, A dan Prasetyo Hermawan. 2009. Karakterisasi Material Berpori dengan Adsorpsi Gas dalam Buku Material. Kimia FMIPA UGM Yogyakarta.