

## DAFTAR PUSTAKA

- Anggasari, N., Alauhdin, M., dan Prasetya, A. T., 2013. "Sintesis dan Karakterisasi Membran Kitosan Tripolifosfat sebagai Alternatif Pengontrol Sistem Pelepasan Obat", *Indo. J. Chem. Sci.*, 2(3): 190-193
- Buhari Narsito and Eko S K 2009 *Indo. J. Chem.* 9 2 170
- Dhuhita A and Arti D K. 2010. "Karakterisasi dan Uji Kinerja SPEEK, cSMM dan Nafion untuk Aplikasi *Direct Methanol Fuel Cell* (DMFC)", (*Final Project* Semarang: *Chemistry Technic Department of Diponegoro.*)
- Handayani, E. 2009. "Sintesa Membran Nanokomposit Berbasis Nanopartikel Biosilika Dari Sekam Padi dan Kitosan sebagai Matriks Biopolimer", (Thesis. Institut Pertanian Bogor : Bogor)
- Kawamoto, H. *Research and Development Trends in Solid Oxide Fuel Cell Materials - From the Viewpoint of Electrolyte Related R&D as Key.* *Sci. Technol. Trends*, 2007, 4, 52-70
- Kedang, Ivana Yohana. 2017,"Fabrikasi Membran Komposit Berbasis Kitosan/Asam Sulfosuksinat dengan *Filler* Nanomontmorillonit", Surabaya: Institut Teknologi Sepuluh Nopember
- Lasher, S.; Zogg, R.P.E.; Carlson, E.; Couch, P.; Hooks, M.; Roth, K.; Brodrick, J, "PEM Fuel Cells For Distributed Generation", *Emerg Technol.*, 2006, 48, 45-48.
- Li, X. J., C. C. Ke, S. G. Qu, J. Li, Z. G. Shao, & B. L. Yi. 2011. "High Temperature PEM Fuel Cells Based on Nafion/SiO<sub>2</sub> Composite Membrane". *Energy Storage in the Emerging Era of Smart Grids*, ISBN: 978-953-307-269-2
- Liu, Jiahao., Xin Chen., Zhengzhong Shao., Ping Zhou. 2003. Preparation and Characterization of Chitosan/Cu (II) Affinity Membrane for Urea Adsorption. *Inc. J Appl Polym Sci*, 90: 1108-1112.
- Meriatna, 2008. "Penggunaan Membran Kitosan untuk Menurunkan Kadar Logam Krom (Cr) dan Nikel (Ni) dalam Limbah Cair Industri Pelapisan Logam", Universitas Sumatera Utara, Medan, (Tesis).
- Ni, M.; Leung, M.K.H.; Leung, D.Y.C. "Technological development and prospect of alkaline fuel cells, In: *Proceedings of 16th World Hydrogen Energy Conference*", June 13-16, 2006; Lyon, France, Curran Associates Inc.: Red Hook, NY, USA, 2006; pp. 33-39.

Pavia, 2001. "Introduction to Spectroscopy", Fourth Edition, Bellingham Washington. [www.itk.ac.id](http://www.itk.ac.id)

Pramono, E., Prabowo, P.S.A., Purnawan, C. and Wulansari, J., 2012, "Pembuatan dan karakterisasi kitosan vanilin sebagai membran polimer elektrolit", *Alchemy Jurnal Penelitian Kimia*, vol. 8, no. 1, pp. 70-78

Purwanto, Muhammad dkk. 2017. "Correlation Between Proton Conductivity, Hydrophilicity, and Thermal Stability Of Chitosan/Montmorillonite Composite Membrane Modified GPTMS and Their Performance in Direct Methanol Fuel Cell". *Malaysian Journal of Analytical Sciences*, Vol 21 No 3 (2017): 657 – 689

Setyaningrum, dyah dkk. 2012. "Sintesis Membran Kitosan-Silika Abu Sekam Padi untuk Filtrasi Ion Logam  $Cd^{2+}$  dan  $Cu^{2+}$ ", *Indonesian Journal of Chemical Science*, Vol 3No 1 (2014) : 2252-6951

Sriyanto, 2017. "Kajian Pengaruh Jenis Asam pada Pemurnian Abu Sekam Padi", *Jurnal Kimia*. Vol. 1. No. 1 Hal. 30-33

Remick, R.J.; Wheeler, D.; Singh, P. *MCFC and PAFC R&D Workshop Summary Report*, US Department of Energy: USA 2011.

Rida, M. A., and Harb, F. 2014. "Synthesis and characterization of amorphous silica nanoparticles from aqueous using cationic surfactants", *Journal of Metals Materials and Minerals*. Vol. 24. No. 1. Pp. 37-42

Suka I G, Simanjuntak W and Dewi E L. 2010 *J. Natur Indonesia* 131 3

Teoh K H, S Ramesh and A K Arof J. 2012. "Investigation on the effect of nanosilica towards corn starch–lithium perchlorate-based polymer electrolytes", *Journal of Solid State Electrochemistry*. Vol. 36. Pp. 3165–3170

Tsao Ching Ting, Chih Hao Chang, Yu Yung Lin, (2011), "Kinetic Study of Acid Depolymerization of Chitosan dan Effects of Low Molecular Weight Chitosan on Erythrocyte Rouleaux Formation", *Carbohydrate Research*, Vol. 346, Pp. 94 -102.

Ulbricht, M., 2006. "Advanced Functional Polymer Membranes", *Polymer* 47:2217-2262.

Wang, Y., Z. Jiang, H. Li, & D. Yang. 2010. "Chitosan Membranes Filled by GPTMS-Modified Zeolite Beta Particles with Low Methanol Permeability for DMFC", *Chemical Engineering and Processing*, 49: 279-284.

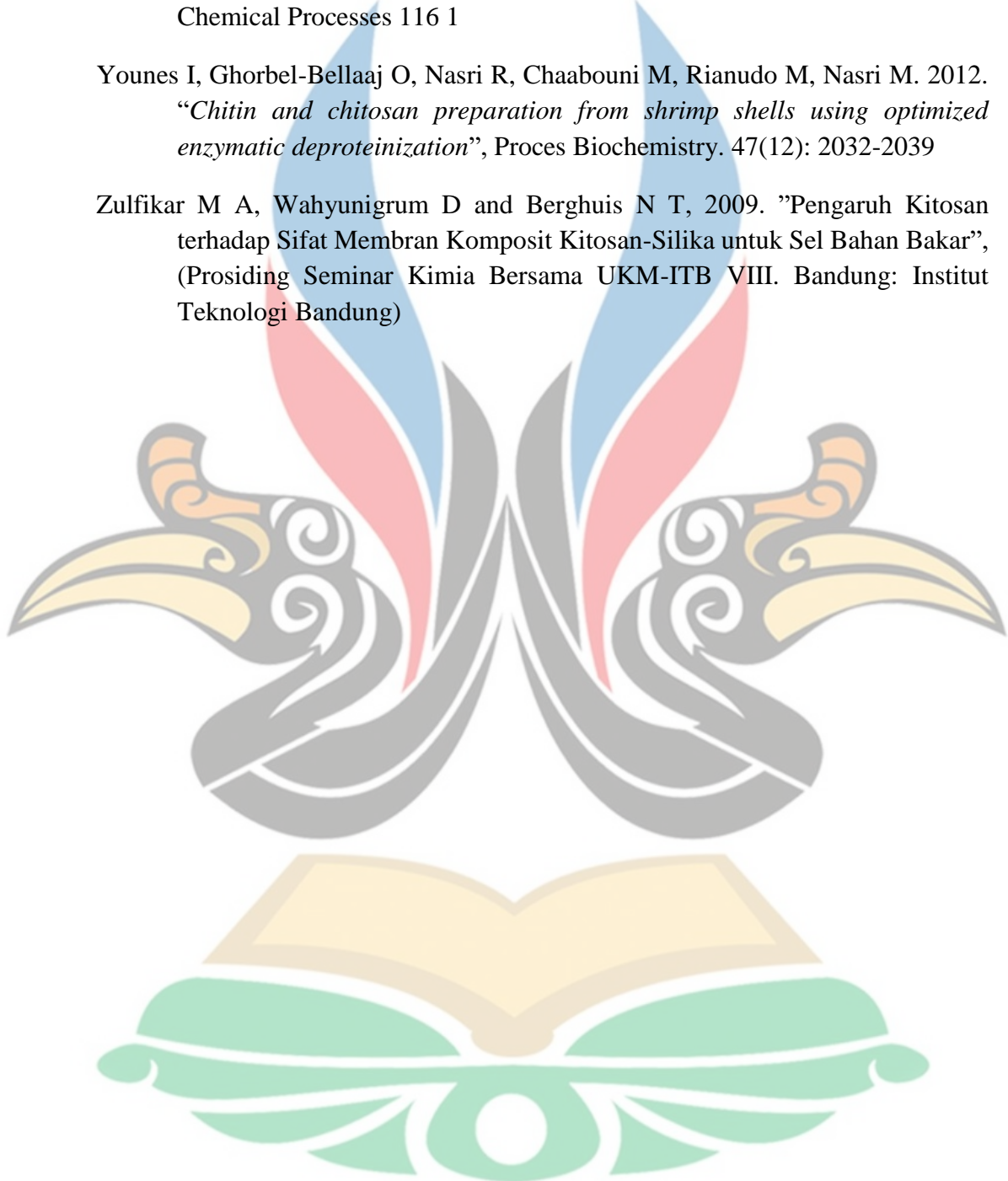
[www.itk.ac.id](http://www.itk.ac.id)

Wiyarsi, A., 2008. "Sintesis Derivat Kitosan Vanilin dan Aplikasinya Sebagai Agen Antibakteri Pada Kain Katun", Program studi kimia, Universitas Gajah Mada, Tesis, Yogyakarta

Vaghari H, Javarizadeh-Malmiri H, Berenjjan A and Anarjan A 2013 Sustainable Chemical Processes 116 1

Younes I, Ghorbel-Bellaaj O, Nasri R, Chaabouni M, Rianudo M, Nasri M. 2012. "Chitin and chitosan preparation from shrimp shells using optimized enzymatic deproteinization", *Proces Biochemistry*. 47(12): 2032-2039

Zulfikar M A, Wahyunigrum D and Berghuis N T, 2009. "Pengaruh Kitosan terhadap Sifat Membran Komposit Kitosan-Silika untuk Sel Bahan Bakar", (Prosiding Seminar Kimia Bersama UKM-ITB VIII. Bandung: Institut Teknologi Bandung)



[www.itk.ac.id](http://www.itk.ac.id)