

## DAFTAR PUSTAKA

- Agus Setiabudi; Rifan Hardian; Ahmad Mudzakir. *Karakterisasi Material: Prinsip dan Aplikasinya dalam Penelitian Kimia*. UPI press. 2012
- Anggraini, D. dan Roliadi, H., .Pembuatan dan kualitas karton seni dari Campuran Pulp Tandan Kosong Kelapa Sawit, Sludge Industri Kertas dan Pulp Batang Pisang. Pusat Penelitian dan Pengembangan Keteknikan Kehutanan dan Pengolahan Hasil Hutan. 2010, 28 (4).
- Alexandrina Nan and Jürgen Liebscher. *Ionic Liquids as Advantageous Solvents for Preparation of Nanostructures*. Applications of Ionic Liquids in Science and Technology 2011
- A., Hardian; Ahmad Mudzakir; Omay Sumarna, Sintesis dan karakterisasi Kristal cair ionik berbasis garam fatty imidazolinium sebagai elektrolit redoks pada sel surya tersensitisasi zat warna, *Jurnal Sains dan Teknologi Kimia*, 2010, 1, 7-16.
- Bajpai, D. dan Tyagi, V. K., Microwave Synthesis of Cationic Fatty Imidazolines and their Characterization. *Journal Surfact and deterg*, Springer AOCs, 2008, 11, 79-87.
- Bernardo S. L. Brito; Fabiano V. Pereira; Jean-Luc Putaux; Bruno Jean, Preparation, morphology and structure of cellulose nanocrystals from bamboo fibers. *Cellulose* 2012, 19, 1527–1536.
- Camelia Ciubota-Rosie; Maria Gavrilescu; Matei Macoveanu. BIOMASS – AN IMPORTANT RENEWABLE SOURCE OF ENERGY IN ROMANIA *Environmental Engineering and Management Journal*, 2008, 7(5), 559-568
- Cintil Jose Chirayil; Lovely Mathew; Sabu Thomas, Review of Recent Research in Nano Cellulose Preparation from different Lignocellulosic Fibers. *Reviews on Advanced Material Science*, 2014, 37, 20-28.
- C.Li; Zhao; Zongbao K., Efficient Acid-Catalyzed Hydrolysis of Cellulose in Ionic Liquid. *Advanced Synthesis and Catalysis*, 2007, 349, 1847–1850.
- C. N. R. Rao; S. R. C. Vivekchand; Kanishka Biswas; A. Govindaraj. Synthesis of inorganic nanomaterials. *Dalton Transactions*, 2007, 3728–3749
- Dagang Liu; Xiaoyu Chen; Yiyi Yue; Mindong Chen; Qinglin Wu, Structure and rheology of nanocrystalline cellulose. *Carbohydrate Polymers*, 2011, 84, 316–322.

- Dariusz Wawro; Włodzimierz Stęplewski; Andrzej Bodek, Manufacture of Cellulose Fibres from Alkaline Solutions of Hydrothermally Treated Cellulose Pulp. *FIBRES & TEXTILES in Eastern Europe*, 2009, 17(3), 18-22.
- Gordon, C. M., Synthesis and Purification of Ionic Liquid. *at Ionik Liquid in Synthesis*. P. Wasserscheid dan T. Welton (Eds.), Wiley Verlag, Frankfurt, 2003
- Hasan Sadeghifar; Ilari Filpponen; Sarah P. Clarke; Dermot F. Brougham; Dimitris S. Argyropoulos. Production of cellulose nanocrystals using hydrobromic acid and click reactions on their surface. *Journal Material Science*, 2011
- Huayu Wang; Changbin Zhang; Hong He; Lian Wang, Glucose production from hydrolysis of cellulose over a novel silica catalyst under hydrothermal conditions. *Journal of Environmental Sciences*, 2012, 24(3), 473–478
- Isdin Oke. Nanoscience in nature: cellulose nanocrystals. *Surg*, 2010, 3(2)
- I. Mohammadpoor-Baltork and M. Abdollahi-Alibeik. Microwave-Assisted Facile and Convenient Synthesis of Imidazolines. *Bulletin Korean Chem. Soc.* 2003, Vol. 24, No. 9
- Jianguo Zhang; Thomas J. Elder; Yunqiao Pu; Arthur J. Ragauskas. Facile synthesis of spherical cellulose nanoparticles. *Carbohydrate Polymers*, 2007, 69, 607–611
- Jingquan Han; Chengjun Zhou; Alfred D. French; Guangping Han; Qinglin Wu, Characterization of cellulose II nanoparticles regenerated from 1-butyl-3-methylimidazolium chloride. *Carbohydrate Polymers*, 2013, 94, 773-781
- Jitendra R. Harjani; Robert D. Singer; M. Teresa Garcia; Peter J. Scammells. Biodegradable pyridinium ionic liquids: design, synthesis and evaluation. *Green Chemistry*, 2009, 11, 83–90
- Johnsy George; K.V. Ramana; A.S. Bawa; Siddaramaiah, Bacterial cellulose nanocrystals exhibiting high thermal stability and their polymer nanocomposites. *International Journal of Biological Macromolecules*, 2011, 48, 50–57
- J., Li; X., Wei; Q., Wangetal, Homogeneous isolation of nanocellulose from sugarcane bagasse by high pressure homogenization. *Carbohydrate Polymers*, 2012, 90(4), 1609–1613
- Kadokawa, J. I. Preparation of Polysaccharide-based Materials Compatibilized with Ionic Liquids. Kagoshima University, Japan. (2010)

- K. V. Sarkanen and C. H. Ludwig, Eds., John Wiley & Sons, Inc., Lignins: Occurrence, formation, structure and reactions, New York. *Journal of Polymer Science Part B: Polymer Letters*, 1972, 10(3), 228–230
- Michael Ioelovich, Optimal Conditions for Isolation of Nanocrystalline Cellulose Particles. *Nanoscience and Nanotechnology*. 2012, 2(2): 9-13
- Mylene Stemmelen; Christophe Travelet; Vincent Lapinte; Redouane Borsali; Jean-Jacques Robin. Synthesis and self-assembly of amphiphilic polymers based on polyoxazoline and vegetable oil derivatives. *Polymer Chemistry*, 2013, 4, 1445-1458.
- Mudzakir, A., Zur Chemie des carbenanalogen 1,3-Dimethyl-1,2,3-benzotriazolium-iodid. (Disertasi). Universitas Magdeburg. 2004
- M.F. Rosa; E.S. Medeiros; J.A. Malmonge; K.S. Gregorski; D.F. Wood; L.H.C. Mattoso; G. Glenn; W.J. Orts; S.H. Imam. Cellulose nanowhiskers from coconut husk fibers: Effect of preparation conditions on their thermal and morphological behavior. *Carbohydrate Polymers* 2010, 81, 83-92
- Neng Wang; Enyong Ding; Rongshi Cheng. Preparation and Liquid Crystalline Properties of Spherical Cellulose Nanocrystals. *Langmuir*, 2008, 24, 5-8
- N. Quievry; N. Jacquet; M. Sclavons; C. Deroanne; M. Paquot; J. Devaux. Influence of homogenization and drying on the thermal stability of microfibrillated cellulose. *Polymer Degradation and Stability*, 2010, 95(3), 306–314
- O. Sanchez; R. Sierra; C. J. Almeciga-Diaz. Delignification Process of Agro-Industrial Wastes an Alternative to Obtain Fermentable Carbohydrates for Producing Fuel, 2011
- Paul B. Filson; Benjamin E. Dawson-Andoh; Diane Schwegler-Berry. Enzymatic-mediated production of cellulose nanocrystals from recycled pulp. *Green Chemistry*, 2009, 11, 1808–1814
- Peter McKendry. Energy production from biomass (part 2): conversion technologies, *Bioresource Technology*, 2002, 83, 47–54
- Rajender S. Varma and Vasudevan V. Namboodiri. Solvent-free preparation of ionic liquids using a household microwave oven. *Pure Application Chemistry*, 2001, 73(8), 1309–1313

Peter, H. Nanocellulose Science towards Applications. Technical Research of Learning Centre, Finland. 2010.

Rui Xiong; Xinxing Zhang; Dong Tian; Zehang Zhou; Canhui Lu, Comparing microcrystalline with spherical nanocrystalline cellulose from waste cotton fabrics. *Cellulose*, 2012, 19, 1189–1198.

R.J. Moon, Cellulose Nanomaterials Review: Structure, Properties and Nanocomposites. Chemical Society, 2011, 40, 3941-3994

R. M. N. A., Rozzaq.. Influence of Ionic Liquid Concentration on the Formation of Cellulose Nanoparticle with Controllable Size in Synthesis of Cellulose Fiber. (Skripsi). Departemen Kimia, Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam, Universitas Pendidikan Indonesia. 2013

R.P. Swatloski; S. K. Spear; J.D. Holbrey; R.D. Rogers. Dissolution of cellulose with ionic liquids. *Journal of the American Chemical Society*, 2002, 124(18), 4974–4975

Siriporn Taokaew; Sutasinee Seetabhawang; Pongpun Siripong; Muenduen Phisalaphong. Biosynthesis and Characterization of Nanocellulose-Gelatin Films. *Materials*, 2013, 6, 782-794

Stover, R.H & N.W. Simmonads. Banana. Tropical Agriculture Series. Longman Scientific and Technical. New York. 1993

Suzelei Montanari; Mohamad Roumani; Laurent Heux; Michel R. Vignon. Topochemistry of Carboxylated Cellulose Nanocrystals Resulting from TEMPO-Mediated Oxidation. *Macromolecules* (2005), 38, 1665-1671

TTG Budidaya Pertanian, 2008. Pisang. Kantor Deputi Menegristek Bidang pendayagunaan dan Pemasyarakatan Ilmu Pengetahuan dan Teknologi, Jakarta [www.warintek.ristek.go.id%2Fpertanian%2Fpisang.pdf&ei=xbCqVLDdCo7luQTF5oLgCQ&usg=AFQjCNFrcqImtpUQGQUvhZVintNTRn515w](http://www.warintek.ristek.go.id%2Fpertanian%2Fpisang.pdf&ei=xbCqVLDdCo7luQTF5oLgCQ&usg=AFQjCNFrcqImtpUQGQUvhZVintNTRn515w) (Diakses tanggal 13 Desember 2014)

Uerdingen E. Processing of cellulose with ionic liquids. *Journalists and Scientists in Dialogue*; Ludwigshafen 2006. p.6.

Vigneshwaran Nadanathangam and Prasad Satyamurthy, Preparation of Spherical Nanocellulose by Anaerobic Microbial Consortium. *Biotechnology and Food Science IPCBEE*. 2011, 7, 181-183

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- Wei Li; Jinqun Yue; Shouxin Liu. Preparation of nanocrystalline cellulose via ultrasound and its reinforcement capability for poly(vinyl alcohol) composites. *Ultrasonics Sonochemistry*, 2012, 19, 479-485
- X. Zhao; K. Cheng; D. Liu, Organosolv pretreatment of lignocellulosic biomass for enzymatic hydrolysis, *Applied Microbiology and Biotechnology*, 2009, 82(5), 815–827
- Y. Yue. A Comparative Study of Cellulose I and II Fibers and Nanocrystals. Louisiana: Heilongjiang Institute of Science and Technology, 2007
- Y. Zheng; Z. Pan; R. Zhang. Overview of biomass pretreatment for cellulosic ethanol production. *International Journal of Agricultural and Biological Engineering*, 2009, 2(3), 51-68
- Zakaria Man; Nawshad Muhammad; Ariyanti Sarwono; Mohamad Azmi Bustam; M. Vignesh Kumar; Sikander Rafiq. Preparation of Cellulose Nanocrystals Using an Ionic Liquid. *Journal Polymer and Environment*, 2011, 19, 726-731
- Zang, Y., Xue, G., Zhang, X., Zhao, Y. Enzymatic Preparation of Nanocrystalline Cellulose from Bamboo Fibers. *Advanced Materials Research*, 2012, 441, 754-758.