

## DAFTAR KEPUSTAKAAN

- Abdolmohammadi S, Siyamak S, Ibrahim NA, Yunus WMZW, Rahman MZA, Azizi S, Fatehi A. 2012. Enhancement Of Mechanical and Thermal Properties of Polycaprolactone/Chitosan Blend by Calcium Carbonate Nanoparticles. *International Journal of Molecular Sciences*, 13(4), 4508-4522.
- Ahman, D and Dorgan J.R., 2007. *Bioengineering for Pollution Prevention through Development of Biobased Energy and Materials State of the Science Report*. EPA/600/R-07/028. 76-78.
- Alexandra, M.D.P. and Dubois. 2000. Polymer-Layered Silicate Nanocomposites: Preparation, Properties and Uses of a New Class of Materials. *Materials Sci. Engin. Rep.* 28: 1–63.
- Angellier H, Choisnard, Molina-boisseau S, ozil P, Dupresne A. 2004. Optimization of the Preparation of Aqueous Suspensions of Waxy Maize Starch Nanocrystals Using a Response Surface Methodology. *Biomacromolecules*;5(4):1545-1551.
- Angellier H, Molena-Boisseau S, Dufresne A. 2005. Mechanical Properties of Waxy Maize Starch Nanocrystal Reinforced Natural Rubber. *Macromolecules*;38(22) : 9161-9170.
- Baek CS, Cho KH, An J. W. 2014. Effect of Grain Size and Replacement Ratio on the Plastic Properties of Precipitated Calcium Carbonate Using Limestone as raw material. *Journal of the Korean Ceramic Society*, 51(2), 127-131.
- Cardoso MB, Putaux JL, Nishiyama Y, Helbert W, Hytch M, SilveiraNP, Chanzy H. 2007. Single Crystal of V-Amylose Complexed with  $\beta$ -Naphthol. *Biomacromolecules*; 8:1319-1326
- Chakraborty S, Sahoo B, Teraoka I, Miller LM, Gross RA. 2005. Enzyme-Catalyzed Regioselective Modification of Starch Nanoparticles. *Macromolecules*; 38:61-68
- Chen G, Wei M, Chen J, Huang J, Dufresne A, Changg PR. 2008. Simultaneous Reinforcing and Toughening New Nanocomposites of Waterborne Polyurethane Ulledwith Low Loading Level of Starch Nanocrystals. *Polymers*;49(7) :1860-1870
- Chevillard A, Angellier H, Cuq B, Guillard V, Cesar G, Gontard N, Gastaldi E. 2011. How The Biodegradability of Wheat Gluten-Based Agromaterial Can be Modulated by Adding Nanoclay. *Polymer Degradation and Stability*.96(12), 2088-2097.
- Chin SF, Pang SC, Tay SH. 2011. Size Controlled Synthesis of Starch Nanoparticles by a Simple Nanoprecipitation Method. Short communication. *Carbohydrate Polymer*; 86:1817-1819.

- Curvelo AA, de Carvalho AJF, dan Agnelli JAM. 2001. Thermoplastic Starch Cellulosic Fibers Composites: Preliminary Results. *Carbohydrate Polymer*. 45:183-188.
- Emriadi. 2005. *Material Polimer*. Andalas University Press. Padang.
- Emriadi. 2006. *Kimia Koloid dan Permukaan*. Andalas University Press. Padang.
- Flach, M. 1997. *Sago Palm Metroxylon Sagu Rottb*. International Plant Genetic Resources Institute. Jerman
- Flach, M. 1983. *The Sago Palm: Domestication Exploitation and Products*. Food and Agriculture Organization of the United Nations. Rome.
- Hapsari BW. 2009. Sintesis nanosfer berbasis ferrofluid dan poly lactic acid (PLA) dengan metode sonikasi. *Skripsi*. Bogor: Departemen Kimia, Institut Pertanian Bogor.
- Harinaldi. 2005. *Prinsip-Prinsip Statistik Untuk Teknik dan Sains*, Erlangga, Jakarta.
- Hassan, C.M., and Peppas, N.A. 2000. Structure and Application of Poli(vinyl alcohol) Hidrogel Produced by Conventional Crosslinking or by Freezing/Thawing Methods. *Advantage of Polymer Science*. 153:37-38.
- Herbert W, Chanzy H. 1994. Single Crystals of V Amylase Complexed with n-butanol: Struktural Features and Properties. *Int. J. Biol. Macromol*; 16(4):207-213.
- Jafari Sm, Assadpoor E, Bhandari B, He Y. 2008. Nanoparticle Encapsulation of Fish Oil by Spray Drying. *Food Research International*; 41:172-183.
- Jain. K.K., 2008. *The Handbook of Nanomedicine*. Basel : Humana Press.
- Jane J. 2006. Current Understanding on Starch Granule Structures. *American Journal of Food Science and Human Nutrition*. 54, 31-36.
- Jenkin PJ, Donald AM. 1997. The Effect of Acid Hydrolysis on Native Starch Granule Structure. *Starch-stake*; 49(7-8):262-267.
- Kakroodi AR, Cheng S, Sain M, Asiri A. 2014. Mechanical, Thermal, and Morphological Properties of Nanocomposites Based on Polyvinil Alcohol and Cellulose Nanofiber from Aloe Vera Rind. *Journal of Nanomaterials* 139.
- Kim JY, Lim ST. 2009. Preparation of Nano Sized Starch Particles by Complex Formation with n butanol. *Carbohydrate Polymers*; 76:110-11.
- Kim JY, Yoon JW, Lim ST. 2009. Formation and Isolation of Nanocrystal Complexed Between Dextrin and nbutanol. *Carbohydrate Polymers*; 78:626-632
- Kim JY, Lim ST. 2010. Complex Formation Between Amylomaize Dextrin and n-butanol by Phase Separation System. *Carbohydrate Polymers*; 82:264-269.
- Knight, J.W. 1969. *The Starch Industry*. Edisi I. Pergamon Press. Oxford.
- Koswara, S. 2006. *Bahaya Dibalik Kemasan Plastik*. E-Book Pangan.com.

- Kristo E, Biliaderis CG. 2007. Physical Properties of Starch Nanocrystal-Reinforced Pullulan Films. *Carbohydrate Polymers*. 68:146-158.
- Khurl, A. I. & Mukhopadhyay, S., 2010. *Response Surface Methodology*. John Wiley, Volume II, 128-149
- Le Corre D, Bras J, Dufresne A. 2010. Starch Nanoparticles : A Review. *Biomacromolecules*;11:1139-1153.
- Lim CJ. Biodegradable Plastics. 1999. Chemistry Social Relevance Report.
- Lin N, Huang J, Chang PR, Anderson DP, Yu J. 2011. Preparation, Modification, and Application of Starch Nanocrystals in Nanomaterial: A Review. *Journal of nanomaterials*, Article ID 573687. 13 p doi:10.1155/2011/57368
- Liu D, Wu Q, Chen H, Chang PR. 2009. Transitional Properties of Starch Colloid with Particle Size Reduction from Micro to Nanometer. *Journal of Colloid and Interface Science*;339(1):117-124
- Louhenapessy, J. E., 1997. Kondisi Sagu di Maluku : Potensi, Alternatif Pemanfaatan dan Pola Pengolahan Tepung. *Jurnal Ilmu Pengetahuan dan Teknologi Universitas Pattimura*. 2.
- Ma X, Jiar R, Chang PR, Yu J. 2008. Fabrication and Characterization of Citric Acid-Modified Starch Nanoparticles/ Plasticized-Starch Composites. *Biomacromolecules*;9(11):3314-20.
- Mc.Glashan, S.A. and P.J. Halley. 2003. Preparation and Characterisation of Biodegradable Starch Based Nanocomposite Materials. *Polymer Intl*. 52(11): 1767–1773.
- Rusmono, Momon. 2020. *Potensi Pengembangan Lahan Sagu di Indonesia Capai 5,5 juta Hektare*. www.liputan6.com. Diakses tanggal 25 Oktober 2020.
- Muljana, H., Picchioni, F., Heeres, H. J., & Janssen, L. P. B. M. 2010. *Starch Modification in Supercritical CO<sub>2</sub>*. University of Groningen.
- Mulyono N, Suhartono MT, Angelina S, 2015. Development of Bioplastic Based on Cassava Flour and Its Starch Derivatives for Food Packaging. *Journal of Harmonized Research in Applied Sciences*, 3(2), 125-132.
- Müller, R.H. dan C.M. Keck. 2004. Challenges and Solutions for The Delivery of Biotech Drugs – A Review of Drug Nanocrystal Technology and Lipid Nanoparticles. *J. Biotech*. 113: 151-170.
- Namazi H, Dadkhah A. 2010. Convenient Method for Preparation of Hydrophobically Modified Starch Nanocrystals with Using Fatty Acids. *Carbohydrate Polymers*;79:731-737
- Namazi H, Fathi F, Dadkhah A., 2011. Hydrophobically Modified Starch Using Long-Chain Fatty Acids for Preparation of Nanosized Starch Particles. *Scientical Iranica, Transaction : Chemistry and Chemical Engineering*.
- Narayan R. 2006. *Biobased and Biodegradable Plastic*. <http://www.plasticsindustry.org/files/events/pdfs/bio-narayan-061906.pdf>. Diakses pada 24 Agustus 2015. 1119-1126.



- Ortega MJS, Stauner T, Loretz B, Ortega-Vunuesa JL, Baston-Gonzalez D, Wenz G Schaefer UF, Lehr CM. 2010. Nanoparticles Made from Novel Starch Derivatives from Transdermal Drug Delivery. *J. of Controlled Release*; 141:85-92.
- Parker R. 2003. *Introduction to Food Science*. United States of America : Delmar, Thomson Learning.
- Putauk JL, Molina-Boisseau S, Momaur T, Dupresne A. 2003. Platelet Nanocrystals Resulting from the Disruption of Waiki Maize Starch Granules by Acid Hydrolysis. *Biomacromolecules*;4:1198-1202.
- Rustagi, dan S. Jadig. 1994. *Optimization Tecniquist In Statistic*. Ohio: The Ohio State Ubeversity colombus.
- Saboktakin MR, Maharramov A, Ramazanov MA, Mahkam M. 2007. Modification of Carboxymethyl Starchas Nano Carriers for Oral Drug Delivery. *Nature and Science*.;5(3):30-36.
- Satin Morton. 2000. *Functional Properties of Starches*. FAO Agricultural and Food Engineering Technologies Service.
- Schartel, B., P. Potschke, U. Noll, and M. Abdel-Goud. 2005. Fire Behaviour of Polyamide 6/Multiwall Carbon Monotube Nanocomposites. *Eur. Polymer J.* 415: 1061–1070.
- Sheftel., VO. 2000. *Indirect Food Additives and Polymer: Migration and Toxicology*. Boca Raton London New York Washington, DC: Lewis Publisher.
- Shi A, Li D,Wang L,Li B,Adhikari B. 2011. Preparation of Starch-Based Nanoparticles Through Highpressure Homogenization Adminiemulsion Crosslinking: Influence of Various Process Parameters on Particle Size and Stability. *Carbohydrate Polymers*;83:1604-1610.
- Simi CK, Abraham E. 2007. Hydrofobic Grafted and Crosslinked Starch Nanoparticles for Drug Delivery. *Biobrocess Biosyst Eng*;30:173-180.
- Song D, Thioc Ys, Denga Y. 2011. Starch Nanoparticle Pormation Via Reactive Extrusion And Related Mechanism Study. *Carbohydrate Polymers*;85:208-214
- Souza A.C., Benze R., Ferrão E.S., Ditchfield C., Coelho A.C.V., Tadini C.C. 2012. Cassava Starch Biodegradable Films: Influence of Glycerol and Clay Nanoparticles Content on Tensile and Barrier Properties and Glass Transition Temperature. *LWT - Food Science and Technology*, 46,110-117
- Wan, C., X. Qiau, and Y. Zhang. 2003.Effect of Different Clay Treatments on Morphology and Mechanical Properties of PVC Clay Nanocomposites. *Polymer Testing*. 22 : 453–461.
- Wang YJ, Truong VD, Wang L. 2003. Structures and Rheological Properties of Corn Starch as Aucted by Acid Hydrolysis. *Carbohydrate Polymers*; 52(3): 327-333
- Winarno. Sterilisasi Komersial Produk-produk Pangan. 1994. Jakarta: Gramedia.

- Wirakartakusumah, M.A., Eriyatno, S. Fardiaz, M. Thenawidjaja, D. Muchtadi, B. S. L. Jenie, dan Machfud. 1984. *Studi Tentang Ekstraksi, Sifat-sifat Fisiko Kimia Pati Sagu dan Pengkajian Enzim*. Dirjen Dikti, Departemen Pendidikan dan Kebudayaan.
- Wisojodharmo L., A, S.J.A.N. Sukartini, dan H. Santoso. 1998. Sintesis dan Karakterisasi Kopolimer Cangkok Pati Tapioka dengan Metil Akilat. *Prosiding Simposium Nasional Polimer II*. Jakarta
- Xu Y, Ding W, Liu J, Kennedy JF, Gu Q, Shao S. 2010. Preparation and Characterization of Organic Soluble Acetylated Starch Nanocrystal. *Carbohydrate Polymers*; 80:1078-1084
- Zheng H, Ai F, Chang PR, Huang J, Dupresne A. 2009. Structure and Properties of Starch Nanocrystals Reinforced Soy Protein Plastics. *Polymers Composites*; 30(4):474-480

