

DAFTAR PUSTAKA

- Alyanak, D., 2004, Water Vapour Permeable Edible Membranes, *Thesis*, Biotechnology and Bioengineering Program, Izmir Institute of Technology.
- Anas, B., 2011, Pemanfaatan Gliserol Hasil Samping Produksi Biodiesel Jarak Pagar sebagai Komponen Coal Dust Suppressant, *Thesis*, Sekolah Pascasarjana Institut Pertanian Bogor, Bogor.
- Ayranci, E. and **Tunc, S.**, 2001, The Effect of Fatty Acid Content on Water Vapour and Carbon Dioxide Transmissions of Cellulose-Based Edible Films, *J. Food Chem.*, 72, 231-236.
- Careda, M.P., Henrique, C.M., De Oliveira, M.A., Ferraz, M.V. and Vincentini, N.M., 2000, Characterization of Edible Films of Cassava Starch by Electron Microscopy, *Braz. J. Food Technol.*, 3, 91-95.
- Chandra, R. and Rustgi, R., 1998, Biodegradable Polymers, *Prog. Polym. Sci.*, 23(7), 1273-1335.
- Chaplin, M., 2005, *Water Structure and Behavior: Alginate*, Department of Applied Science London South Bank University, London.
- Charles, A.H., 1999, *Modern Plastics Handbook*, McGraw-Hill, New York.
- Debeaufort, F., Martin-Polo, M. and Voilley, A., 1993, Polarity Homogeneity and Structure Affect Water Vapor Permeability of Model Edible Films, *J. Food Sci.*, 58(2), 426-429.
- Donhowe, G. and Fennema, O., 1994, *Edible Film and Coating: Characteristic, Formation, Definitions and Testing Methods*, Technomic Publ. Co. Inc. Lancaster, Pennsylvania.
- Ertesvag, H. and Valla S., 1998, Biosynthesis and Applications of Alginates, *Polym. Degrad. Stab.*, 59, 85-91.
- Fehragucci, H., 2012, Pengaruh Penambahan Plasticizer dan Kitosan terhadap Karakter Edible Film Ca-alginat, *Skripsi*, Jurusan Kimia FMIPA UNS, Surakarta.
- Fennema, O.R., 1985, *Food Chemistry*, Marcel Dekker Inc., New York.
- Fernández, L., De Apodaca, E.D., Cebrián, M., Villarán, M. and Maté, J., 2007, Effect of The Unsaturation Degree and Concentration of Fatty Acids on The Properties of WPI-based Edible Films, *Eur. Food Res. Technol.*, 224(4), 415-420.

- Galiotta, Gioia, D., Guilbert and Cuq, 1998, Mechanical and Thermomechanical Properties of Films Based on Whey Proteins as Affects by Plasticizer and Crosslinking Agents, *J. Dairy Sci.*, 81, 3123 – 3130.
- Gontard, N., Guilbert, S. and Cuq, J.L., 1993, Water and Glycerol as Plasticizer Effect Mechanical and Water Vapor Barrier Properties of An Edible Wheat Gluten Film, *J. Food Sci.*, 58(1), 206–210.
- Hagenmaier, R.D. and Baker, R.A., 1994. Wax Microemulsions and Emulsions as Citrus Coatings, *J. Agr. Food Chem.*, 42(4), 899-902.
- Hagenmaier, R.D. and Baker, R.A., 1997, Edible Coatings from Morpholine-Free Wax Microemulsions, *J. Agr. Food Chem.*, 45(2), 349-352.
- Harris, H., 2001, Kemungkinan Penggunaan Edible Film dari Tapioka untuk Pengemas Lempuk, *JUPI*, 2(3), 99–106.
- Heddy, S., 2000, Pengaruh Dosis EM4 dan Pupuk Kandang Sapi terhadap Pertumbuhan dan Hasil Tanaman Sawi (*Brassica juncea* L.), *J. Agritek*, 8(4), 505-510.
- Henrique, C.M., 2007, Clasification of Cassava Strach Film by Physicochemical Properties and Water Vapor Permeability Quantification by FTIR and PLS, *J. Food Sci.*, 72(4), 184-189.
- Jodra, Y. and Mijangos, F., 2003, Cooperative Biosorption of Copper on Calcium Alginate Enclosing Iminodiacetic Type Resin, *Environ. Sci. Technol*, 19(37), 4362-4367.
- Jongjareonrak, A., Benjakul, S., Visessanguan, W., Prodpran, T. and Tanaka, M., 2006, Characterization of Edible Films from Skin Gelatin of Brownstripe Red Snapper, *J. Food Hydrocolloids*, 20(4), 492-501.
- Kamper, S.L. and Fennema, O., 1984, Water Vapor Permeability of An Edible, Fatty Acid, Bilayer Film, *J. Food Sci.*, 6(49), 1482-1485.
- Kashima, K. and Imai, M., 2012, *Advanced Membrane Material from Marine Biological Polymer and Sensitive Molecular-Size Recognition for Promising Separation Technology*. In Robert, Y.N., *Advancing Desalination*, InTech, Croatia.
- Katili, S., Harsunu, B.T. dan Irawan, S., 2013, Pengaruh Konsentrasi Plasticizer Gliserol dan Komposisi Khitosan dalam Zat Pelarut terhadap Sifat Fisik Edible Film dari Khitosan, *J. Teknologi*, 6(1), 29-38.
- Ketaren, S., 1986, *Pengantar Teknologi Minyak dan Lemak Pangan*, UI-Press, Jakarta.
- Knothe, G., Gerpen, J.V. and Krahl J., 2005, *The Biodiesel Handbook*, AOCS Publishing, USA.

- Krochta, J.M. and De Mulder-Johnston, C.D., 1997, Edible and Biodegradable Polymer Films: Challenges and Opportunities, *J. Food Technol.*, (2)51, 61-74.
- Krotcha, J.M., 1992, *Control of Mass Transfer in Food with Edible Coatings and Film. Advances in Food Engineering*, CRC Press, Boca Raton.
- Lai, H.M., Padua, G.W. and Wei, L.S., 1997, Properties and Microstructure of Zein Sheets Plasticized with Palmitic and Stearic Acid, *J. Cereal Chem.*, 1(74), 83-90.
- Listyianingsih, D., 2012, Pembuatan dan Karakterisasi Biofilm Pati Gembili-Kitosan dengan Plasticizer Polivinil Alkohol (PVA), *Skripsi*, Jurusan Kimia FMIPA UNNES, Semarang.
- Manheim, C.H. and Passy, N., 1990, Interaction between Packaging Materials and Food, *Packag. Technol. Sci.*, 3(3): 127-132.
- Martin-Polo, M., Voilley, A., Blond, G., Colas, B., Mesnier, M. and Floquet, N., 1992, Hydrophobic Films and Their Efficiency Against Moisture Transfer, *J. Agr. Food Chem.*, 3(40): 413-418.
- McHugh, D.J., 2003, A Guide to Seaweed Industry, *FAO Fish. Tech. Pap.*, 441, 43-47.
- Morillon, V., Debeaufort, F., Blond, G., Capelle, M. and Voilley, A., 2002, Factors Affecting the Moisture Permeability of Lipid-Based Edible Films: A Review, *Crit. Rev. Food Sci. Nutr.*, 42(1), 67-89.
- Nisperos-Carriedo, M.O., Krochta, J.M. and Baldwin, E.A., 1994, *Edible Coating and Films to Improve Food Quality*, Technomic Publ. Co. Inc. Lancaster, Pennsylvania.
- Nurminah, M., 2002, Penelitian Sifat Berbagai Bahan Kemasan Plastik dan Kertas serta Pengaruhnya terhadap Bahan yang Dikemas, *Skripsi*, Teknologi Pertanian Fakultas Pertanian USU, Medan.
- Nursanyoto, H., 1993, *Zat Gizi Utama*, PT. Golden Terayon Press, Jakarta.
- Pagella, C., Spigno, G. and DeFaveri, D.M., 2002, Characterization of Starch Based Edible Coatings, *Food Bioprod. Process.*, 80(3), 193-198.
- Peroval, C., Debeaufort, F., Despre, D. and Voilley, A., 2002, Effects of Lipid Type on Water Vapor Permeability, Film Structure, and Other Physical Characteristics, *J. Agr. Food Chem.*, 50(14), 3977-3983.
- Pranamuda, H., 2009, *Pengembangan Bahan Plastik Biodegradable Berbahan Baku Pati Tropis*, Badan Pengkajian dan Penerapan Teknologi Jakarta, Jakarta.

- Santoso, B., Saputra, D. dan Pambayun, R., 2004, Kajian Teknologi Edible Coating dari Pati dan Aplikasinya Untuk Pengemas Primer Lempok Durian, *JTIP*, 3(XV),239-244.
- Sembiring, F., 2011, Pengaruh Penggunaan Film Pelapis Ca-Alginat Kitosan Dan Pelapis Plastik Terhadap Kadar Pati Roti Tawar Dan Pertumbuhan Isolat Bakteri, *Skripsi*, Jurusan Kimia FMIPA USU, Medan.
- Shellhammer, T. and Krochta J., 1997, Whey Protein Emulsion Film Performance as Affected by Lipid Type and Amount, *J. Food Sci.*, 2(62), 390-394.
- Silva, A.V., 2014, Modifikasi Poli(Propilen Itakonat) dengan Penambahan Agen Ikat Silang N,N-Metilenbisakrilamida, *Skripsi*, Jurusan Kimia FMIPA UNS, Surakarta.
- Srikhant, P., 2011, *Handbook of Bioplastics and Biocomposites Engineering Applications*, University of Wisconsin-Madison, USA.
- Suryani, I., 2012, Pengaruh Penambahan Plasticizer dan Carboxymethyl Cellulose (CMC) terhadap Karakter Edible Film Ca-alginar, *Skripsi*, Jurusan Kimia FMIPA UNS, Surakarta.
- Susilawati, Mustafa, I. dan Maulina, D., 2011, Plastik Biodegradable dari Campuran Low Density Polyethylene (LDPE) dan Pati Singkong dengan Penambahan Asam Akrilik, *Jurnal Natural*, 2(11), 69-73.
- Tanaka, M., Ishizaki, S., Suzuki, T. and Takai, R., 2001, Water Vapor Permeability of Edible Films Prepared from Fish Water Soluble Proteins as Affected by Lipid Type, *J. Tokyo Univ. Fish.*, 87, 31-37.
- Winarno, F.G., 1992, *Kimia Pangan dan Gizi*, PT. Gramedia Pustaka, Jakarta.
- Yang, L. and Paulson, A.T., 2000, Effects of Lipids on Mechanical and Moisture Barriers Properties of Edible Gellan Film, *J. Food Res. Int.*, 33(7), 571-578.
- Zahedi, Y., Naser S. and Babak G., 2011, Effect of Physical State of Fatty Acids on the Physical Properties of PGP-Based Emulsified Edible Film, *IJNRS*, 2(2), 56-63.
- Zhangjiang, F., 1990, *Training Manual of Gracillaria Culture and Seaweed Processing in Chine*, Seafarming Development and Demonstration Project China, Chinese.