

DAFTAR PUSTAKA

- Abdel-Rahman, R.M., Hrdina, R., Abdel-Mohsen, A.M., Fouda, M.M.G., Soliman, A.Y., Mohamed, F.K., Mohsin, K., and Pinto, T.D., 2015, Chitin and Chitosan from Brazilian Atlantic Coast: Isolation, Characterization and Antibacterial Activity, *Int. J. Biol. Macromol.*, 80, 107–120.
- Agustina, E., Mahdi, N., dan Herdanawati, 2013, Perkembangan Metamorfosis Lalat Buah (*Drosophilla melanoogaster*) pada Media Biakan Alami Referensi Pembelajaran pada Mata Kuliah Perkembangan Hewan, *J. Biotik*, 1(1), 1-66.
- Apriyanto, T., 2011, Studi Identifikasi Golongan Senyawa Terpena dari Ekstrak Daun Tembakau dan Selasih sebagai *Insect Ovipositing Repellent* terhadap Lalat Buah *Bactrocera carambolae*, *Skripsi*, Departemen Kimia, FMIPA UGM, Yogyakarta.
- Arancibia, M., Rabossi, A., Bochicchio, P.A., Moreno, S., López-Caballero, M.C., Gómez-Guillén, M.C., and Montero, P., 2013, Biodegradable Films Containing Clove or Citronella Essential Oils against The Mediterranean Fruit Fly *Ceratitis capitata* (Diptera: Tephritidae), *J. Agric. Food. Tech.*, 3(3), 1-7.
- Asranudin, dan Putra, S.R., 2014, Efek Penambahan PEG 400 pada Plastik PHA yang Diproduksi dari *Ralstonia pickettii*, *Prosiding Seminar Nasional Kimia*, 20 September 2014, Surabaya.
- Astuti, B.C., 2008, Pengembangan Edible Film Kitosan dengan Penambahan Asam Lemak dan Essential Oil: Upaya Perbaikan Sifat *Barriers* dan Aktivitas Antimikroba, *Skripsi*, Fakultas Teknologi Pangan, IPB, Bogor.
- Badawy, M.E.I., Rabea, E.I., Rogge, T.M., Stevens, C.V., Steurbaut, W., Höfte M., and Smagghe, G., 2005, Fungicidal and Insecticidal Activity of O-acyl Chitosan Derivatives, *Polymer Bulletin*, 54, 279–289.
- Banerjee, S.S., Aher, N., Patil, R., and Khandare, J., 2012, Poly(ethylene glycol)-Prodrug Conjugates: Concept, Design, and Applications, *J. Drug Deliv.*, 2012, 1–17.
- Bano, R., 2014, Use of Chitosan in Mosquito Repellent Finishing for Cotton Textiles, *J. Textile Sci. Eng.*, 4, 1-3.
- Baxter, A., Dillon, M., Taylor, K.D.A., and Robert, G.A.F., 1992, Improved Method for Infrared Determination of The Degree of N-acetylation of Chitosan, *Int. J. Biol. Macromol.*, 14, 166-169.

- Butler, B.L., Vergano, P.J., Testin, R.F., Bunn, J.M., and Wiles, J.L., 1996, Mechanical and Barrier Properties of Edible Chitosan Films as Affected by Composition and Storage, *J. Food Sci.*, 61(5), 953-956.
- Chen, R.H., and Hwa, H., 1996, Effect of Molecular Weight of Chitosan with the Same Degree of Deacetylation on The Thermal, Mechanical, and Permeability Properties of The Prepared Membrane, *Carbohydr. Polym.*, 29, 353-358.
- Clasen, C., Wilhelms, T., and Kulicke, W.M., 2006, Formation and Characterization of Chitosan Membranes, *Biomacromolecules*, 7, 3210–3222.
- Crarke, N.A., Armstrong, K.F., Carmichael, A.E., Milne, J.R., Raghu, S., Roderick, G.K., and Yeates, D.K., 2005, Invasive Phytophagous Pests Arising through a Recent Tropical Evolutionary Radiation: The *Bactrocera dorsalis* Complex of Fruit Flies, *Annu. Rev. Entomol.*, 50, 293-319.
- Coma, V., Martial-Gros, A., Garreau, S., Copinet, A., and Deschamps, A., 2002, Edible Antimicrobial Films Based on Chitosan Matrix, *J. Food Sci.*, 67, 1162–1169.
- Daryanto, 2002, *Pedoman Pengendalian Hama Lalat Buah*, Direktorat Jendral Bina Produksi Hortikultura, Jakarta.
- Domszy, J.G., dan Roberts, G.A.F., 1985, Evaluation of Infrared Spectroscopic Techniques for Analazyng Chitosan, *J. Macromol. Chem.*, 186, 1671-1677.
- Drew, R.A.I., and Hancock, DL., 1994, The *Bactrocera dorsalis* complex of Fruit Flies (Diptera: Tephritidae: Dacinae) in Asia, *Bulletin of Entomological Research*, 84(2), 68.
- El-Gendy, I.R., Nasr, H.M., Badawy, M.E.I., and Rabea, E.I., 2014, Toxic and Biochemical Effects for Certain Natural Compounds on The Peach Fruit Fly, *Bactrocera zonata* (Diptera, Tephritidae), *Am. J. Biochem. Mol. Biol.*, 4, 112–121.
- Fruijtier-Pölloth, C., 2005, Safety Assessment on Polyethylene Glycols (PEGs) and Their Derivatives as Used in Cosmetic Products, *Toxicology*, 214, 1–38.
- Fundo, J.F., Galvis-Sanchez, A.C., Delgadillo, I., M.Silva, C.L., and Quitas, M.A.C., 2015, The Effect of Polymer/Plasticiser Ratio in Film Forming Solutions on The Properties of Chitosan Films, *Food Biophys.*, 10, 324-333.
- García, M.A., Pérez, L., de la Paz, N., González, J., Rapado, M., and Casariego, A., 2015, Effect of Molecular Weight Reduction by Gamma Irradiation on Chitosan Film Properties, *Mater. Sci. Eng.*, 55, 174–180.

- Hasyim, A., Boy, A., dan Hilman, Y., 2010, Respon Hama Lalat Buah Jantan Terhadap Beberapa Jenis Atraktan dan Warna Perangkap di Kebun Petani, *J. Hort.*, 20(2), 164-170.
- Jiang, W.H., and Han, S.J., 1998, Study of Interaction between Polyethylen Glycol and Chitosan by Viscometry Method, *J.Pol. Sci.*, 36, 1275-1281.
- Kammoun, M., Haddar, M., Kallel, T.K., Dammak, M., and Sayari, A., 2013, Biological Properties and Biodegradation Studies of Chitosan Biofilms Plasticized with PEG and Glycerol, *Int. J. Biol. Macromol.*, 62, 433-438.
- Kauppinen, J.K., Moffat, D.J., Mantsch, H.H., and Cameron, D.G., 1981, Fourier Self-Deconvolution: A Method for Resolving Intrinsically Overlapped Bands, *Appl. Spectr.*, 35(3), 271-276.
- Khan, T.A., Peh, K.K., and Ch'ng, H.S., 2002, Reporting Degree of Deacetylation Value of Chitosan: The Influence of Analytical Methods, *J. Pharm. Pharmaceut. Sci.*, 5(3), 205-212.
- Kolhe, P., and Kannan, R.M., 2003, Improvement in Ductility of Chitosan Through Blending and Copolymerization with PEG: FTIR Investigation of Molecular Interactions, *Biomacromolecules*, 4, 173-180.
- Kramer, W.L., and Mulla, M.S., 1979, Oviposition Attractants and Repellents of Mosquitoes: Oviposition Responses of *Culex* Mosquitoes to Organic Infusions, *Environ. Entomol.*, 6(8), 1111-1117.
- Kurita, K., 2006, Chitin and Chitosan: Functional Biopolymers from Marine Crustaceans, *Mar. Biotechnol.*, 8, 203-226.
- Larasati, A., Hidayat, P., dan Buchori, D., 2013, Keanekaragaman dan Persebaran Lalat Buah *Tribe Dacini* (Diptera: Tephritidae) di Kabupaten Bogor dan Sekitarnya, *J. Entomol. Indones.*, 10, 51-59.
- Maura, J.M., Farias, B.S., Rodrigues, D.A.S., Maura, C.M., Dotto, G.L., and Pinto, L.A.A., 2015, Preparation of Chitosan with Different Characteristics and Its Application for Biofilms Production, *J. Polym. Environ.*, 23, 470-477.
- Murniaty, 2012, Sifat Mekanik dan Serapan Air Plastik Komposit Kitosan-Lempung, *Tesis*, Departemen Kimia, FMIPA UGM, Yogyakarta.
- Pracaya, 2008, *Pengendalian Hama dan Penyakit Tanaman secara Organik*, Kanisius, Yogyakarta.
- Prambudi, M.I., Puspitarini, R.D., dan Rahardjo, B.T., 2014, Keanekaragaman dan Kekerabatan Lalat Buah (Diptera: Tephritidae) di Kalimantan Selatan Berdasarkan Karakter Morfologi dan Molekular (RAPD-PCR dan Sekuensing DNA), *J. HPT. Tropika*, 13(2), 191-202.

- Pranowo, D., Wahyuningsih, T.D., Fibriawati, N., Martono, E. dan Suputa, 2010, Potensi Minyak Atsiri Kemangi dan Selasih sebagai *Insect Ovipositing Repellent*, *Prosiding Seminar Nasional Kontribusi Penelitian Dosen dan Revitalisasi Pertanian*, Mei 2010, Yogyakarta.
- Rahmawati, Y.F., 2009, Kemelimpahan parasitoid (*Hymenoptera*) Musuh Alami Lalat Buah *Bactrocera carambolae* Drew dan Hancock (Diptera Tephritidae) pada Cabai Merah (*Capsicum annum* L.), *Tesis*, Departemen Biologi, Fakultas Biologi UGM, Yogyakarta.
- Rabea, E.I., Badawy, M.E.I., Stevens, C.V., Smagghe, G., and Steurbaut, W., 2003, Chitosan as Antimicrobial Agent: Applications and Mode of Action, *Biomacromolecules*, 4, 1457–1465.
- Reiad, N.A., Salam, O.E.A., Abadir, E.F., and Harraz, F.A., 2012, Adsorptive Removal of Iron and Manganese Ions from Aqueous Solutions with Microporous Chitosan/Polyethylene Glycol Blend Membrane, *J. Environ. Sci.*, 24, 1425–1432.
- Rinaudo, M., Pavlov, G., and Desbrieres, J., 1999, Influence of Acetic Acid Concentration on The Solubilization of Chitosan, *Polymer*, 40, 7029-7032.
- Rotta, J., Minatti, E., and Barreto, P.L.M., 2011, Determination of Structural and Mechanical Properties, Diffractometry, and Thermal Analysis of Chitosan and Hydroxypropylmethylcellulose (HPMC) Films Plasticized with Sorbitol, *Food Sci. Technol. Camp.*, 31, 450–455.
- Salvador-Figueroa, M., Hernandez-Ortiz, E., Ventura-Gonzales, C., Ovando-Medina, I., and Adriano-Anaya, L., 2013, Effect of Chitosan Coating on the Development of *Anastrepha ludens* (LOEW) in Mango Fruits (*Mangifera indica* L.) CV. Ataufo, *Rev. Iber Tecnologia Postcosecha*, 14(1), 14-20.
- Shahabudi, 2012, Teknik Pengendalian Lalat Buah *Bactrocera* Sp. (Diptera: Tephritidae) pada Pertanaman Cabai Menggunakan Perangkap dengan Isyarat Kimia dan Visual, *J. Agroland.*, 19 (1), 56 – 62.
- Silva-Weiss, A., Bifani, V., Ihl, M., Sobral, P.J.A., and Gómez-Guillén, M.C., 2013, Structural Properties of Films and Rheology of Film-Forming Solutions Based on Chitosan and Chitosan-Starch Blend Enriched with Murta Leaf Extract, *Food Hydrocolloids*, 31, 458-466.
- Stevens, M.P., 2007, *Kimia Polimer*, Pradnya Paramita, Jakarta.
- Sunarno, dan Popoko, S., 2013, Keragaman Jenis Lalat Buah (*Bactrocera* Spp) di Tobelo Kabupaten Halmahera Utara, *J. Agroforestri.*, 8, 4, 269-276.

- Suyatma, N.E., Tighzert, L., Copinet, A., and Coma, V., 2005, Effects of Hydrophilic Plasticizers on Mechanical, Thermal, and Surface Properties of Chitosan Films, *J. Agric. Food Chem.*, 53, 3950–3957.
- Tapia-Blácido, D.R., Sobral, P.J. do A., and Menegalli, F.C., 2013, Effect of Drying Conditions and Plasticizer Type on Some Physical and Mechanical Properties of Amaranth Flour Films, *LWT - Food Sci. Technol.*, 50, 392–400.
- Turecek, P.L., Bossard, M.J., Schoetens, F., and Ivens, I.A., 2016, PEGylation of Biopharmaceuticals: A Review of Chemistry and Nonclinical Safety Information of Approved Drugs, *J. Pharm. Sci.*, 105, 460–475.
- Vijaysegaran, S., 1984, The Occurrence of Oriental Fruit Fly on Starfruit in Serdang and The Status of Its Parasitoids, *J. Plant Prot.*, 1(2), 93–98.
- Wenling, C., Jing, D., Li, J., Gong, Y., Zhao, N., and Zhang, X., 2005, Effects Degree of Deacetylation on The Physicochemical Properties and Schwann Cell Affinity of Chitosan Film, *J. Biomat. Appl.*, 20, 157.
- Yuniarti, Prahardini, P.E.R., dan Santoso, P.J., 2007, Peningkatan Mutu Buah Mangga Arumanis untuk Pasar Swalayan, *Prosiding Seminar Nasional Agribisnis Mangga*, 10-11 November 2006, Probolinggo.
- Yuniastuti, S., 2015, Pemanfaatan Selasih sebagai Pemikat Lalat Buah pada Tanaman Sayur dan Buah di Jawa Timur, *Inovasi Hortikultura Pengungkit Peningkatan Pendapatan Rakyat*, 283-294.
- Younes, I., and Rinaudo, M., 2015, Chitin and Chitosan Preparation from Marine Sources. Structure, Properties and Applications, *Mar. Drugs*, 13, 1133–1174.
- Zhang, M., Li, X.H., Gong, Y.D., Zhao, N.M., and Zhang, X.F., 2002, Properties and Biocompatibility of Chitosan Films Modified by Blending with PEG, *Biomaterials*, 23, 2641–2648.
- Zivanovic, S., Li, J., Davidson, P.M., and Kit, K., 2007, Physical, Mechanical, and Antibacterial Properties of Chitosan/ PEO Blend Films, *Biomacromolecules*, 8, 1505-1510.