

## DAFTAR PUSTAKA

- Adirahmanto, K.A., Hartanto, R., Novita, D.D. (2013). Perubahan Kimia dan Lama Simpan Salak pondoh Pondoh (*Salacca edulis reinw*) dalam Penyimpanan Dinamis Udara - CO<sub>2</sub>. *Jurnal Teknik Pertanian Lampung*. 2(3),123-132
- Ahmad, R.Z., D.A. Setyabudi dan N.S. Wulandari. (2018). The mold causing agent of rotten snake fruit (*Salacca zalacca* (Gaertn.) from traditional fruit markets. *Proceedings of the 2nd International Conference on Biosciences*. 1-8
- Ahmad, R.Z., Setyabudi, D.A., Wulandari, N.S. (2018). The Mold Causing Agent of Rotten Snake Fruit (*Salacca zalacca* (Gaertn.) from Traditional Fruit Markets. *Proceedings of the 2nd International Conference on Biosciences*. 1-8
- Alves, V.L.C.D., Rico, B.P.M., Cruz, R.M.S., Vicente, A.A., Khmelinskii, I., Vieira, M.C. (2018). Preparation and Characterization of a Chitosan Film With Grape Seed Extract-Carvacrol Microcapsules and Its Effect on the Shelf-Life of Refrigerated Salmon (*Salmo salar*). *LWT Food Sci. Technol.* 89, 525–534
- Amanda, L.D. (2022). Pembuatan dan Karakteristik Membran Kitosan dari Kulit Udang Vaname (*Litopenaeus vannamei*). *Skripsi*. Fakultas Sains dan Teknologi Universitas Islam Negeri Ar-Raniry, Banda Aceh
- Andarini, D. (2016). Kajian Penggunaan Kitosan Sebagai *Edible Coating* untuk Memperpanjang Masa Simpan Somay Ikan pada Suhu Ruang. *Skripsi*. Lampung: Universitas Lampung
- Api,A.M., Belsito,D., Botelho,D., Browne,D., Bruze,M., Burton,G. A., Buschmann,J., Dagli, M.L., Dekant,W., Deodhar,C., Fryer, A.D. (2017). RIFM fragrance ingredient safety assessment, isoamyl alco hol CAS Registry Number 123-51-3. *Food ann Chemical Toxicology*. 110, S421–S430
- Ariviani, S & Parnanto, N.H.R. (2013). Kapasitas Antioksidan Salak pondoh (*Salacca edulis Reinwr*) Kultivar Pondoh, Nglumut dan Bali serta Korelasinya dengan Kadar Fenolik Total dan Vitamin C. *Agritech*. 33(3):324-334
- Aziz. & Abdul. (2010). *Pengenalan Cendawan, Nematoda, Serta Bakteri*. Makassar: Universitas Hasanuddin Makassar
- Bal, E., Ürün, B.A. (2020). Effects of Chitosan Coating with Putrescine on Bioactive Compounds and Quality of Strawberry cv. San Andreas During Cold Storage. *Erwerbs-Obstbau*
- Blaszczyk, L., Siwulski, M., Sobieralski, K., Lisiecka, J., Jędryczka, M. (2014). *Trichoderma* spp. – Application and Prospects for Use in Organic Farming and Industry. *Journal of Plant Protection Research*. 54(4), 309-317
- Boukaew S, Petlamul W, Phitthayaphinant P, Prasertsan P (2019) Potential use of *Streptomyces mycarofaciens* SS-2-243 as a biofumigant to protect maize seeds against two aflatoxin producing fungi. *Eur J Plant Pathol*. 155:489–503.
- Calvo, H., Mendiara, I., Arias, E., Gracia, A.P., Blanco, D., Venturini, E. (2020). Antifungal activity of the volatile organic compounds produced by *Bacillus velezensis* strains against postharvest fungal pathogens. *Postharvest Biology and Technology*. 166

- Dewati, R., Qothrunnada, S., Huda, M.N., (2023). Inovasi *Edible Film* Berbahan Baku Albedo Nangka (*Artocarpus heterophyllus*) dengan *Plasticizer* Gliserol. *Seminar Nasional Teknik Kimia Soebardjo Brotohardjono XIX*. 154-163.
- Djaafar, T.F., Marwati, T., Indrasari, S.T., Hatmi, R.U., Purwaningsih, P., Siswanto, N., Ambarsari, I., Supriyadi, S. (2022). Mutu Fisik Salak pondoh Pondoh (*Salacca edulis Reinw*): Pengaruh Pelilinan dan Pengemasan Menggunakan Kantong Plastik *Low Density Polyethylene*. *AgriTECH*. 42(2), 113-122.
- Dutta, P. K., Tripathi, S., Mehrotra, G. K., & Dutta, J. (2009). Perspectives for Chitosan Based Antimicrobial Films in Food Applications. *Food Chemistry*, 114(4):1173-1182.
- Epping R, Koch M (2023) On-site detection of volatile organic compounds (VOCs). *Molecules* 28(4):1598
- Fransiskus. (2010). Analisis Kromosom dan Stomata Tanaman Bali (*Salacca zalacca* Var. Amboinesis (Becc.) mogea) Salak Padang Sidempuan (S. Sumatrana Becc.) dan salak jawa (*Salacca zalacca* Becc.). *Skripsi*. Fakultas Pertanian, Universitas Sebelas Maret, Surakarta
- Frengki, D., Tafzi, F., Wulansari, D. 2024. Pengaruh Jenis Kemasan terhadap Mutu Salak Pakkat Setelah Transportasi dari Kecamatan Pakkat (Sumatera Utara) Menuju Kota Jambi (Jambi). *Program Studi Teknik Pertanian*. 1-9
- Gill, S. S., & Tuteja, N. (2010). Reactive oxygen species and antioxidant machinery in abiotic stress tolerance in crop plants. *Plant Physiology and Biochemistry*, 48(12): 909-930
- Gomes, E. T., Crous, P. W., Wingfield, M. J., & Groenewald, J. Z. (2013). "Thielaviopsis species associated with diseases of fruit and nut crops." *Persoonia - Molecular Phylogeny and Evolution of Fungi*, 31, 94-108.
- Hung, R., Lee, S., Bennett, J. W. (2015). Fungal volatile organic compounds and their role in ecosystems. *Appl. Microbiol. Biotechnol.* 99, 3395–3405
- Isnaeni, R., Fitri, A., Nurandini, D., Tirtana, A., Prayitno, M.Z., (2022). Karakteristik *Edible Film (Layer by Layer)* dari Karagenan KITOSAN dengan Penambahan Ekstrak Daun Belimbing Wuluh sebagai Zat Antioksidan. *Konversi*, 11(1): 52-58
- Jamaludin, Nugroho, L.P.E., Darmawati, E. (2018). Investigasi Penyakit Busuk Ujung Lancip Salak pondoh pada Rantai Pasok. *Jurnal Keteknik Pertanian*. 6(2),303-310.
- Jumadi, O., Junda, M., Caronge, M.W., Syafruddin. (2021). *Trichoderma dan Pemanfaatannya*. Makassar: Jurusan Biologi FMIPA UNM
- Khunajakr, N., W. Aporn., M. Duangtip, dan T. Sukon. (2008). Screening and Identification of Lactic Acid Bacteria Producing Antimicrobial Compounds From Pig Gastrointestinal Tracts. *KMITL Science Technology Journal*. 8(1). 8-17
- Kocira, A., Kozłowicz, K., Panasięcs, K., Staniak, M., Krok, E.Z., Horthyńska, P. (2021). Polysaccharides as Edible Films and Coatings: Characteristics and Influence on Fruit and Vegetable Quality—A Review. *Agronomy*. 11(5):813

- Kong, W.L., Rui, L., Ni, H., Wu, X.Q. (2020). Antifungal Effects of Volatile Organic Compounds Produced by *Rahnella Aquatilis* JZ-GX1 against *Colletotrichum Gloeosporioides* in *Liriodendron chinense* × *Tulipifera*. *Front. Microbiol.* 11, 1114
- Krochta, J. M., & De Mulder-Johnston, C. (1997). Edible and biodegradable polymer films: Challenges and opportunities. *Food Technology*, 51(2): 61-74
- Kumar, P., & Yadav, P. (2016). Polyphenols and their beneficial effects on fruit quality: A review. *International Journal of Food Properties*, 19(11): 2434-2452.
- Lancioni C, Castells C, Candal R, Tascon M (2022) Headspace solid-phase microextraction: fundamentals and recent advances. *Adv Sample Prep* 3:100035.
- Liu C, Zheng H, Sheng K, Liu W, Zheng L. (2018). Effects of melatonin treatment on the postharvest quality of strawberry fruit. *Postharvest Biol Technol.* 139: 47-55.
- Mahatmanti, F.W., Kusumastuti, E., Jumaeri., Sulistiyani, M., Susiyanti, A., Haryati, U., Dirgantari, P.S. (2022). *Bookchapter Inovasi Kimia*. Semarang: Universitas Negeri Semarang
- Manurung, V.H., Djarkasi, G.S.S., Langi, T.M., Luluhan, L.E. (2013). Analisis Sifat Fisik Dan Kimia Salak pondoh Pangu (*Salacca zalacca*) Dengan Pelilinan Selama Penyimpanan. *E-Journal Unsrat*.
- Morita, T., Tanaka, I., Ryuda, N., Ikari, M., Ueno, D., Someya, T. 2019. Antifungal Spectrum Characterization and Identification of Strong Volatile Organic Compounds Produced by *Bacillus pumilus* TM-R. *Heliyon*. 5(6), E01817
- Mustapa, R., Restuhadi, F., Efendi, R. (2017). Pemanfaatan Kitosan sebagai Bahan Dasar Pembuatan *Edible Film* dari Pati Ubi Jalar Kuning. *JOM FAPERTA*. 4(2):1-12
- Mutirani, A., Giyanto, Tondok, E.F. (2023). Perlakuan Air Panas untuk Pengendalian Penyakit Busuk Salak pondoh selama Penyimpanan. *Jurnal Keteknik Pertanian*. 11(2), 205-221
- Napitupulu, T.P. (2023). Antagonistic fungal volatiles as potential biocontrol countermeasure for microbial postharvest fruit disease. *Egyptian Journal of Biological Pest Control*. 33:100
- Noviyanti, E., Absar, A.A., Nurhasanah, I., Nurhatawan, L.A., Hasri, N.N., Rahayu, R.P., Fifendy, M., & Radiastuti, N. 2021. Isolasi dan Identifikasi Jamur Penyebab Busuk pada Kulit Salak (*Salacca* sp.). *Prosiding SEMNAS BIO 2021 Universitas Negeri Padang*. 433-442
- Nur'aini, H., & Apriyani, S. (2015). Penggunaan Kitosan Untuk Memperpanjang Umur Simpan Buah Duku (*Lansium Domesticum* Corr). *AGRITEPA*, 1(2), 195–210.
- Oberlintner, A., Bajic, M., Kalcikova, G., Likozar, B., Novak, U. (2021). Biodegradability Study of Active Chitosan Biopolymer Films Enriched with *Quercus* Polyphenol Extract in Different Soil Types. *Environ Technol Innov.*
- Oktaviani, R.D. (2022). Cemarkan Cendawan Perusak Pascapanen Salak pondoh Sidempuan (*Salacca sumatrana*). *Skripsi*. Medan: Universitas Medan Area

- Oktaviani, R.D. 2022. Cemaran Cendawan Perusak Pascapanen Salak pondoh Sidempuan (Salacca Sunatrana). *Skripsi*. Fakultas Sains dan Teknologi Universitas Medan Area
- Pagans E, Font X, Sánchez A (2006) Emission of volatile organic compounds from composting of diferent solid wastes: abatement by biofltration. *J Hazard Mater* 131(1–3):179–186
- Palevi, F.M. (2020). Analisis Risiko Petani Salak Pondoh (*Salacca Zalacca Gaertner Voss*) Kabupaten Malang. *Skripsi*. Jember: Universitas Jember
- Palma-Guerrero, J., Jansson, H. B., Salinas, J., & Lopez-Llorca, L. V. (2010). Effect of chitosan on hyphal growth and spore germination of plant pathogenic and biocontrol fungi. *Journal of Applied Microbiology*, 104(3), 541-553.
- Pereyra, M.M., Garmendia, G., Rossini, C., Meinhardt, F., Vero, S., Dib, J.R. 2022. Volatile Organic Compounds of *Clavispora Lusitaniae* AgL21 Restrains Citrus Postharvest Pathogens. *Biol. Control*. 174, 105025
- Popescu, P.A., Palade, L.M., Nicolae, I.C., Popa, E.E., Mitelut, A.C., Draghici, M.C., Matei, F., Popa, M.E. (2022). Chitosan-Based Edible Coatings Containing Essential Oils to Preserve the Shelf Life and Postharvest Quality Parameters of Organic Strawberries and Apples during Cold Storage. *Foods*. 11,1-18
- Prasad, K., Siddiqui, M.W., Sharma, R.R., Gaurav, A.K., Neha, P., Kumar, N. (2018). Edible Coatings and Their Effect on Postharvest Fruit Quality. In: Siddique WM (ed) *Innovative Packaging of Fruits and Vegetables: Strategies for Safety and Quality Maintenance*. Apple Academic Press. 161–19
- Purwanti, A. (2016). Pemisahan Amil Alkohol dari Limbah Cair *Lutter Washer*. *Teknoin*. 22(1), 19-27
- Rabea, E. I., Badawy, M. E., Stevens, C. V., Smagghe, G., & Steurbaut, W. (2003). Chitosan as antimicrobial agent: Applications and mode of action. *Biomacromolecules*, 4(6): 1457-1465.
- Raghavendra, S. N., & Ramachandra, S. N. (2010). Edible Coatings and films from Polysaccharides. *Food Reviews International*. 26(1): 1-22
- Rinaudo, M. (2006). Chitin and Chitosan: Properties and applications. *Progress in Polymer Science*.31(7): 603-632.
- Rizal, Muhamad., Purwatingdyah, D. N & Widowati, R. 2015. Kajian pengolahan hasil salak pondoh serta analisis usaha Taniya di Kota Balikpapan, Kalimantan Timur. *Prosiding Seminar Nasional Masyarakat Biodiv Indonesia*. 1(5), 1238-1244
- Rowan, D.D. (2011) Volatile metabolites. *Metabolites* 1(1):41–63.
- Sari, D.K., Sintia, R.A., Hendarsyah, A.R. (2021). Analisis Usaha Tani Salak di Desa Bagorejo Kecamatan Gumukmas Kabupaten Jember. *Jurnal Ekonomi Pertanian dan Agribisnis* (JEPA). 5(2), 473-483
- Sarwono, R. (2010). Pemanfaatan Kitin/Kitosan Sebagai Bahan Anti Mikroba. *JKTI*. 12(1):32-39

- Septiosari, A., Latifah., dan Kusumastuti, Ella. (2014). Pembuatan dan Karakterisasi Bioplastik Limbah Biji Mangga dengan Penambahan Selulosa dan Gliserol. *Indonesian Journal of Chemical Science*. 3(2).
- Stracquadanio, C., Quiles, J.M., Meca, G., Cacciola, S.O. (2020). Antifungal Activity of Bioactive Metabolites Produced by *Trichoderma asperellum* and *Trichoderma atroviride* in Liquid Medium. *Journal of Fungi*. 6,263
- Sugianti, C., Tamrin., Pakpahan, E.F. (2018). Pengaruh *Hot Water Treatment* (HWT) terhadap Busuk Buah dan Kandungan Salak pondoh Pondoh. *Prosiding Seminar Nasional PERTETA*. 344-354
- Susilowati, E., Lestari, A.E. (2019). Pembuatan dan Karakterisasi *Edible Film* Kitosan Pati Biji Alpukat (KIT-PBA). *Jurnal Kimia dan Pendidikan Kimia*. 4(3): 197-204
- Susilowati, P.E., A. Fitri & M. Natsir. (2017). Penggunaan Pektin Kulit Buah Kakao Sebagai Edible Coating pada Kualitas Buah Tomat dan Masa Simpan. *Jurnal Aplikasi Teknologi Pangan*. 6(2) :1-4.
- Suyatma, N. E., Tighzert, L., Copinet, A., & Coma, V. (2005). Effects of Hydrophilic Plasticizers on Mechanical, Thermal, and Surface Properties of Chitosan Films. *Journal of Agricultural and Food Chemistry*, 53(9): 3950-3957.
- Tebar, N.M., Alvarez, J.A.P., Lopez, J.F., Martos, M.V. (2023). Chitosan Edible Films and Coatings with Added Bioactive Compounds: Antibacterial and Antioxidant Properties and Their Application to Food Products: A Review. *Polymers*. 15,396
- Triastarani, A.P. (2021) Pengaruh Paparan Sinar Ultraviolet (UV) untuk Memperkecil Kerusakan dan Aktivitas Antioksidan pada Salak pondoh (*Salacca edulis reinw*). *Skripsi*. Malang: Universitas Islam Negeri Maulana Malik Ibrahim Malang
- Trisnawati, E., D.Andesti dan A. Saleh. (2013). Pembuatan Kitosan Dari Limbah Cangkang Kepiting Sebagai Bahan Pengawet Buah Duku Dengan Variasi Lama Pengawetan. *Jurnal Teknik Kimia*. 2(19) : 17-26
- Valencia-Chamorro, S. A., et al. (2011). "Use of bioactive coatings to control mold growth and reduce decay in cold-stored strawberries." *Journal of Food Science*, 76(4), M250-M256
- Vinchira-Villarraga, D.M.,Moreno-Sarmiento, N. 2019. Control biológico: Camino a la Agricultura Moderna. *Revista Colombiana de Biotecnología*. 21, 2–5
- Widiastuti, A., Ningtyas, O. H., & Priyatmojo, A. (2015). Identifikasi cendawan penyebab penyakit pascapanen pada beberapa buah di Yogyakarta. *Jurnal Fitopatologi Indonesia*, 11 (3), 91-99
- Widodo, L. Urip., Wati, Sheila Neza., dan A.P., Ni Made Vivi. (2019). *Pembuatan Edible Film Dari Labu Kuning dan Kitosan dengan Gliserol Sebagai Plasticizer*. Program Studi Teknik Kimia, Fakultas Teknik, UPN Veteran Jawa Timur.
- Zhang, Z. & Li, G. 2010. A review of advances and new developments in the analysis of biological volatile organic compounds. *Microchem. J.* 95, 127-13