



DAFTAR PUSTAKA

- Al-Baarri, A. N., Hadipernata, M., Hidayat, A. A., Abduh, S. B. M., Nur, M., Mawarid, A. A., Ivana, H., Angelica, V., & Zahra, P. A. A. (2023). *Consumer Perception on the Redness and off Flavor Upon Stored Red Chili Paste with Ozone Treatment*. *IOP Conference Series: Earth and Environmental Science*, 1246(1). <https://doi.org/10.1088/1755-1315/1246/1/012057>
- Alhanannasir, Murtado, A. D., Muchsiri, M., Rudi, F., & Agustini, S. (2021). Aplikasi Labu Kuning Sebagai Substitusi Zat Warna Kuning Pada Pembuatan Kemplang. *Jurnal Dinamika Penelitian Industri*, 32, 19–26.
- Anoraga, S. B., Sabarisman, I., & Ainuri, M. (2018). *Effect of different pretreatments on dried chilli (Capsicum annum L.) quality*. *IOP Conference Series: Earth and Environmental Science*, 131(1). <https://doi.org/10.1088/1755-1315/131/1/012014>
- Ari Cahyani, D., & Asriyanti, S. A. (2020). Penambahan Bahan Peredam Terhadap Kandungan Vitamin C Cabai (*Addition of Soaking Material to Vitamin C Contents of Chili Powder*). In *Jurnal Ilmiah Media Agrosains* (Vol. 6, Issue 2).
- Ariani, Y., Bintoro, N., Karyadi, Joko, N., & Wahyu. (2019). Kinetika Perubahan Kualitas Fisik Buah Mangga Selama Pengeringan Beku dengan Perlakuan Pendinginan Awal dan Ketebalan Irisan. *AgriTECH*, 39(4), 298. <https://doi.org/10.22146/agritech.42599>
- Asgar, A., Musaddad, D., Setyabudi, A. D., & Hassan, Z. H. (2015). Teknologi Ozonisasi Untuk Mempertahankan Kesegaran Cabai Cultivar Kencana Selama Penyimpanan. *Jurnal Penelitian Pascapanen Pertanian*, 12(1), 20–26.
- Asgar A, S. A. S. dan Da. (2011). Kajian Ozonisasi (O_3) Terhadap Karakteristik Kubis Bunga (*Brassica oleracea var Botrytis*) Segar Selama Penyimpanan Pada Suhu Dingin. *Berita Biologi*, 10(6).
- Azhar Shapawi, Z. I., Ariffin, S. H., Shamsudin, R., Mohamed Amin Tawakkal, I. S., & Gkatzionis, K. (2021). *Modeling respiration rate of fresh-cut sweet potato (Anggun) stored in different packaging films*. *Food Packaging and Shelf Life*, 28. <https://doi.org/10.1016/j.fpsl.2021.100657>
- Bawana, S. B., (2022). *Quality Changes Of Red Chilli (Capsicum Annum L.) During Cold Storage In Different Packaging*. *Jurnal Agroteknologi Terapan*, 3(2).
- Bahar, E., Yusoff, A. M., & Rasyad, A. (2017). Pengaruh Etilen Terhadap Kadar Capsaicin pada Empat Varietas Cabai (*Capsicum annuum L.*) di Lingkungan dan Kondisi Iklim Kabupaten Rokan Hulu.
- Bessemans, N., Verboven, P., Verlinden, B. E., & Nicola, B. M. (2016). *A novel type of dynamic controlled atmosphere storage based on the respiratory quotient (RQ-DCA)*. *Postharvest Biology and Technology*, 115, 91–102.
- Brandenburg, J. S. and D. Z. (2009). *Modified and Controlled Atmosphere Packaging Technology and Applications. in Modified and Controlled Atmospheres for the Storage, Transportation, and Packaging of Horticultural Commodities*. CRC Press.



- Cahyono, B. (2003). Cabai Rawit : Teknik Budaya dan Analisis Usaha Tani. Kanisius.
- Castanha, N., Matta Junior, M. D. da, & Augusto, P. E. D. (2017). *Potato starch modification using the ozone technology*. *Food Hydrocolloids*, 66, 343–356. <https://doi.org/10.1016/j.foodhyd.2016.12.001>
- Daud, A., Suriati, & Nuzulyanti. (2019). Kajian Penerapan Faktor yang Mempengaruhi Akurasi Penentuan Kadar Air Metode Thermogravimetri. *LUTJANUS*, 24(2).
- David, J., & Kalbar, B. (2020). Pengelolaan Cabai Untuk Memperpanjang Masa Simpan (*Chili Management to extend Saving Time*). *Jurnal Pertanian Agros*, 22(2).
- Fadhil, R., Bambang, M., Putra, S., Andriani, S., Al-Qudri, L., & Fikri, M. (2015). Pemodelan konsentrasi gas pada pengemasan tertutup jamur tiram (*Pleurotus ostreatus*) segar. *Jurnal Agrotekno Majalah Ilmiah Teknologi Pertanian*, 17(2).
- Fagundes, C., Carciofi & Monteiro, A. R. (2013a). *Estimate of respiration rate and physicochemical changes of fresh-cut apples stored under different temperatures*. *Food Science and Technology*, 33(1), 60–67. <https://doi.org/10.1590/S0101-20612013005000023>
- Fagundes, C., Carciofi & Monteiro, A. R. (2013b). *Estimate of respiration rate and physicochemical changes of fresh-cut apples stored under different temperatures*. *Food Science and Technology*, 33(1), 60–67. <https://doi.org/10.1590/S0101-20612013005000023>
- Fonseca, S. C. , Oliveira, & J.K. Brecht. (2002). *Modelling Respiration Rate of Fresh Fruits and Vegetables for Modified Atmosphere Packages : A Review*. *Journal of Food Engineering*, 52(2), 99–119.
- Fonesca, S. C., Oliveira & Brecht, J. K. (2002). *Modelling respiration rate of fresh fruits and vegetables for modified atmosphere packages : a review*. . *Journal of Food Eng.*, 99–119.
- Fronseca, Susana C., & et al. (2002). *Modeling Respiration Rate of Fresh Fruit and Vegetables for Modified Atmosphere Packages: a Review*. *Journal of Food Engineering*, 52, 99–119.
- Ghozali. (2016). Aplikasi Analisis Multivariete Dengan Program IBM SPSS 23 (8th ed.). Badan Penerbit Universitas Diponegoro.
- Grewal, P. S. (2018). *Estimation of Respiratory Dynamics of Fresh Green Chilli (*Capsicum annuum* L.)*. *International Journal of Pure & Applied Bioscience*, 6(2), 920–928. <https://doi.org/10.18782/2320-7051.5480>
- Gross, K. C., Wang, Y., & Saltveit, M. (2017). *The Commercial Storage of Fruits, Vegetables, and Florist and Nursery Stocks*. In *Agricultural Research Service Agriculture Handbook Number* (Vol. 66). www.ntis.gov.
- Gupta, & Preerna. (2023). *Role of oxygen absorbers in food as packaging material, their characterization and applications*. In *Journal of Food Science and Technology*. Springer. <https://doi.org/10.1007/s13197-023-05681-8>
- Hadiosemarto, T. (2003). Penyerap Oksigen dan Aplikasinya dalam Sistem Pengemasan Untuk Memperpanjang Umur Simpan Produk Pangan yang Dikemas. *Bulletin Penelitian*, 25(2).



- Hamdanah, Fitria Habibatul, & Fitrianah, D. (2021). Analisis Performansi Algoritma Linear Regression dengan Generalized Linear Model untuk Prediksi Penjualan pada Usaha Mikro, Kecil, dan Menengah. *Jurnal Nasional Pendidikan Teknik Informatika (JANAPATI)*, 10(1), 23. <https://doi.org/10.23887/janapati.v10i1.31035>
- Hasbullah, R. (2007). Teknik Pengukuran Laju Respirasi Produk Hortikultura Pada Kondisi Atmosfir Terkendali : Bagian I:Metode SIstem Tertutup. *Jurnal Keteknikan Pertanian*, 21(4).
- Ho, Q. T., Hertog, Verboven, P., Ambaw, A., Rogge, S., Verlinden, B. E., & Nicola, B. M. (2018). Down-regulation of respiration in pear fruit depends on temperature. *Journal of Experimental Botany*, 69(8), 2049–2060. <https://doi.org/10.1093/jxb/ery031>
- Ho, Q. T., Rogge, S., Verboven, P., Verlinden, B. E., & Nicolaï, B. M. (2016). Stochastic modelling for virtual engineering of controlled atmosphere storage of fruit. *Journal of Food Engineering*, 176, 77–87. <https://doi.org/10.1016/j.jfoodeng.2015.07.003>
- Ho, Q. T., Verboven, P., Verlinden, B. E., Schenk, A., & Nicolaï, B. M. (2013). Controlled atmosphere storage may lead to local ATP deficiency in apple. *Postharvest Biology and Technology*, 78, 103–112. <https://doi.org/10.1016/j.postharvbio.2012.12.014>
- Hutchings JB. (1999). *Food Color and Apperance 2nd* (Gaitersburg). Aspen Publishing Inc.
- Iskandar, Y., Mardjan, M. S., & Darmawati, E. (2020). *Aplikasi Coating Gel Lidah Buaya pada Karakteristik Kualitas Buah Alpukat dalam Penyimpanan Suhu Ruang* (Vol. 8). Zhong guo shi hua chu ban she.
- Kader, A. A. (1987). *Respiration and gas exchange of vegetables* (J. Weichmann). Marcel Dekker.
- Kamal-Eldin, A., Alhammadi, A., Gharsallaoui, A., Hamed, F., & Ghnimi, S. (2020). Physicochemical, rheological, and micro-structural properties of yogurts produced from mixtures of camel and bovine milks. *NFS Journal*, 19, 26–33. <https://doi.org/10.1016/j.nfs.2020.05.001>
- Kays, S. J. (1991). *Metabolic processes in harvested products – respiration*. Van Nostrand Reinhold Publication.
- Lamona, A., Purwanto, Y. A., & Sutrisno. (2015). Pengaruh Jenis Kemasan dan Penyimpanan Suhu Rendah terhadap Perubahan Kualitas Cabai Merah Keriting Segar. *Jurnal Keteknikan Pertanian*, 3(2), 145–152.
- Lamona, A., Purwanto, Y. A., & Sutrisno, S. (2015a). Effect of Different Packaging and Low Temperature Storage on the Quality Changes of Fresh Red Curly Chili. *Jurnal Keteknikan Pertanian*, 03(2), 1–8. <https://doi.org/10.19028/jtep.03.2.145-152>
- Lamona, A., Purwanto, Y. A., & Sutrisno, S. (2015b). Effect of Different Packaging and Low Temperature Storage on the Quality Changes of Fresh Red Curly Chili. *Jurnal Keteknikan Pertanian*, 03(2), 1–8. <https://doi.org/10.19028/jtep.03.2.145-152>



- Lilipaly, Eka R, Bravor Pattikayhatu, Erwin, & Effendy, E. (n.d.). Efisiensi Water Misting System Dalam Mempertahankan Kualitas Sayur. *JURNAL SIMETRIK*, 13(1).
- Lulus Lande, M., & Salman, F. (2021). The Inhibition of Red CHilies Ripening Procces in Fresh Weight and Total Carbohydrate Content by Red Light. *Jurnal Ilmiah Biologi Eksperimen Dan Keanekaragaman Hayati*, 8(1), 39–45.
- Maharani, D. M., Lastriyanto, A., Rafianto, V., Putri, S. V. Y. S., & Khasanah, K. (2019). Rancang Bangun Hypobaric storage Sebagai Alat Penyimpanan Cabai Rawit (*Capsicum frutescens* L.). *AgriTECH*, 39(2), 143. <https://doi.org/10.22146/agritech.37230>
- Marni, H., Fahmy, K., Hasan, A., & Ifmalinda. (2020). Modelling Respiration Rate of Chili for Development of Modified Atmosphere Packaging. *IOP Conference Series: Earth and Environmental Science*, 515(1). <https://doi.org/10.1088/1755-1315/515/1/012032>
- Mattos, L., Moretti, C., & Ferreira, M. (2012). *Modified Atmosphere Packaging for Perishable Plant Products*.
- Mulyawanti, I., Sjafullah, E., & Dwi, A. (2017). Teknologi Pengemasan Atmodphere Termodifikasi (Modified Atmosphere Packaging) dan Vakum pada Buah Durian. *Jurnal Penelitian Pascapanen Pertanian*, 14(1), 1–10.
- Murtiwulandari, M., Archery, D. T. M., Haloho, M., Kinasih, R., Tanggara, L. H. S., Hulu, Y. H., Agaperesa, K., Khristanti, N. W., Kristiyanto, Y., Pamungkas, S. S., Handoko, Y. A., & Anarki, G. D. Y. (2020). Pengaruh suhu penyimpanan terhadap kualitas hasil panen komoditas Brassicaceae. *Teknologi Pangan : Media Informasi Dan Komunikasi Ilmiah Teknologi Pertanian*, 11(2), 136–143. <https://doi.org/10.35891/tp.v11i2.2168>
- Nugraha, B., Verboven, P., Verlinden, B. E., Verreydt, C., Boone, M., Josipovic, I., & Nicolaï, B. M. (2022). Gas exchange model using heterogeneous diffusivity to study internal browning in ‘Conference’ pear. *Postharvest Biology and Technology*, 191. <https://doi.org/10.1016/j.postharvbio.2022.111985>
- Nurdjannah, R. , Purwanto, Y. A. , & Sutrisno. (2014). Pengaruh Jenis Kemasan dan Penyimpanan Dingin Terhadap Mutu Fisik Cabai Rawit Merah. *Jurnal Pascapanen*, 19–29.
- Pangidoan, S. dan S. M. (2020). Peran Teknologi Ozonisasi Dalam Mempertahankan Kesegaran dan Memperpanjang Masa Simpan Buah Nenas (Ananas Comosus (L) Merr .). *Review. Balai Besar Litbang Pascapanen Pertanian*, 4(1), 76–88.
- Pantastico. (2011). *Teknologi Buah dan Sayur*. ALumni.
- Peppelenbos, H. W., Tijskens, M., van, J., & Clare Wilkinson, E. (1996). Postharvest Biology and Technology Modelling oxidative and fermentative carbon dioxide production of fruits and vegetables. In *Postharvest Biology and Technology* (Vol. 9).
- Purseglove. (2003). *Spice Volume II*. Longman Inc.
- Putri, Y. R., Khuriyati, N., & Sukartiko, A. C. (2020). *Effect of Temperature and Packaging on Physical Quality of Curly RedChili (Capsicum annum L.) During Storage*. *Jurnal Teknologi Pertanian*, 21(2), 80–93.



- Rahayu, D., Bintoro, N., & Saputro, A. D. (2021). Pemodelan Laju Respirasi Buah Klimakterik Selama Penyimpanan Pada Suhu yang Bervariasi. *Agrointek*, 15, 80–91.
- Rejo, A. , Rahardjo, B. , & Tranggono. (1994). Model Perubahan Komposisi Gas CO₂ dan O₂ Buah Salak Pondoh (*Salacca edulis*, Reinw) Pada Pengemasan Plastik Polietilen dalam Atmosfir Termodifikasi. *Agritech*, 21(1), 5–9.
- Rosdiana, A. M. , & M. Z. (2011). Teknologi Budidaya Cabai Rawit. *Balai Pengkajian Teknologi Pertanian Gorontalo*.
- S. Benítez a, Chiumenti, F., Sepulcre a, I., Achaerandio a, M., & Pujo. (2012). Modeling the effect of storage temperature on the respiration rate and texture of fresh cut pineapple. *Journal of Food Engineering*, 113, 527–533.
- Saenmuang, S., Al-Haq, M. I., Samarakoon, H. C., Makino, Y., Kawagoe, Y., & Oshita, S. (2012). Evaluation of Models for Spinach Respiratory Metabolism Under Low Oxygen Atmospheres. *Food and Bioprocess Technology*, 5(5), 1950–1962. <https://doi.org/10.1007/s11947-010-0503-5>
- SNI 4480:2016. (2016). *Cabai*.
- Sugiyanti, D. (2015). Pemanfaatan Teknologi Kemas MAP (*Modified Atmosphere Packaging*) Untuk Peningkatan Ekonomi Produktif Masyarakat Penghasil Tepung Mocaf (*Modified Cassava Flour*) di Desa Meseteh Kec. Boja Kab, Kendal. *DIMAS*, 15(1).
- Sulistyaningrum, A., & Darudriyo. (2018). Penurunan Kualitas Cabai Rawit Selama Penyimpanan dalam Suhu Ruang. *Jurnal Agronida* , 4(2), 64–71.
- Susilo, B., Agustiningrum, D. A., & Indriani, D. W. (2017). Pengaruh Penyimpanan Atmosfer Termodifikasi (Modified Atmosphere Storage/ MAS) terhadap Karakteristik Jamur Tiram Putih (*Pleurotus ostreatus*) (The Effect of Storage Using Modified Atmosphere Storage (MAS) for the Characterization of Oyster Mushrooms (*Pleurotus ostreatus*)). *Agritech*, 36(4), 369. <https://doi.org/10.22146/agritech.16758>
- Tranggono dan Sutardi. (2010). *Biokimia dan Teknologi Pasca Panen*. Universitas Gadjah Mada.
- Utama, I. M. S. (2001). Penanganan Pascapanen Buah dan Sayuran Segar. *Konsultasi Teknologi*, 1(1), 1–13.
- Walker, S. (2010). Postharvest Handling of Fresh Chiles. *New Mexico State University*.
- Wigati, L. P., Mardjan, S. S., & Darmawati, E. (2020). Post-Harvest Handling Evaluation Of Red Chili Along The Supply Chain In Sukabumi. *AGROINTEK*, 14(2), 191–198. <https://doi.org/10.21107/agrointek.v14i2.5992>
- Xiao, H., Verboven, P., Tong, S., Pedersen, O., & Nicola, B. (2024). Hypoxia in tomato (*Solanum lycopersicum*) fruit during ripening: Biophysical elucidation by a 3D reaction-diffusion model . *Plant Physiology*. <https://doi.org/10.1093/plphys/kiae174>
- Yola, R. , Z. dan R. (2013). Penentuan kandungan kapsaisin pada berbagai buah cabai (*capsicum*) dengan metode kromatografi cair kinerja tinggi (KCKT). *Kimia Unand*, 2(2), 115–119.



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Penentuan Batas Kritis Oksigen dan Suhu untuk Aplikasi Penyimpanan Cabai dengan Active Modified

Atmosphere Packaging (a-MAP)

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Yongki, A., & Nurlina. (2014). Aplikasi Edible Coating dari Pektin Jeruk Songhi Pontianak (*Citrus Nobilis* Var *Microcarpa*) pada Penyimpanan Buah Tomat. *JKK*, 3(4), 11–20.

Zagory, D. , and A. A. K. (1988). Modified Atmosphere of Fresh Produce . *Food Technology*, 42(9), 70–77.