

DAFTAR PUSTAKA

- Agustiani, F. R. T., Sjahid, L. R., & Nursal, F. K. (2022). Kajian literatur : peranan berbagai jenis polimer sebagai gelling agent terhadap sifat fisik sediaan gel. *Majalah Farmasetika*, 7(4), 270 – 287. <https://doi.org/10.24198/mfarmasetika.v7i4.39016>
- Agustina, W. W. & Handayani, M. N. (2016). Pengaruh penambahan wortel (*Daucus carota*) terhadap karakteristik sensori dan fisikokimia selai buah naga merah (*Hyloreceus polyrhizus*). *FORTECH*, 1(1), 17 – 28. <http://ejournal.upi.edu/index.php>
- Agustini, S. (2016). Color development in complex model system on various time and temperature. *Jurnal Dinamika Penelitian Industri*, 28(1), 1 – 9. <https://doi.org/10.28959/jdpi.v28i1.1638>
- Amelia, O., Astuti, S., & Zulferiyenni. (2016). Pengaruh penambahan pektin dan sukrosa terhadap sifat kimia dan sensori selai jambu biji merah (*Psidium guajava L.*). *Prosiding Seminar Nasional Pengembangan Teknologi Pertanian*, 149 – 159. <http://repository.lppm.unila.ac.id/3543/>
- Amiludin, Wahyuni, S. & Asyik, N. (2018). Pengembangan vegetable leather daun tawa'oloho (*Spondias pinnata*) dan rumput laut (*Eucheuma cottonii*). *Jurnal Sains dan Teknologi Pangan*, 3(2), 1140 – 1151. <https://ojs.uho.ac.id/index.php/jstp/article/view/4417>
- Andragogi, V., Bintoro, V. P., & Susanti, S. (2018). Pengaruh berbagai jenis gula terhadap sifat sensori dan nilai gizi roti manis. *Jurnal Teknologi Pangan*, 2(2), 163 – 167. www.ejournal-s1.undip.ac.id/index.php/tekpangan
- Anindhita, I. D. (2020). Karakteristik fisiko kimia cookies fungsional tepung kimpul (*Xanthosoma sagittifolium L.*) termodifikasi dan penambahan daun alur (*Suaeda maritima*). Skripsi, UPN Veteran Jawa Timur. <https://repository.upnjatim.ac.id/2927/>
- Antika, S. R., & Kurniawati, P. (2017). Isolasi dan karakterisasi pektin dari kulit nanas. *Prosiding Seminar Nasional Kimia*, 218 – 225. https://diploma.chemistry.uji.ac.id/wp-content/uploads/2018/01/PUJI_Prosideing-Seminar-Nasional-Kimia-Di-UNESA-2.pdf
- AOAC. (2005). *Official Methods of Analysis of The Association of Analytical Chemist*. Association of Official Analytical Chemist, Inc.
- Apriyanto, M. & Rujiah. (2017). *Kimia Pangan*. Trussmedia Grafika. https://books.google.co.id/books?id=KNBAEAAAQBAJ&newbks=1&newbks_redir=0&lpg=PR3&dq=apriyanto%20kimia%20pangan&hl=id&pg=PR4#v=onepage&q=apriyanto%20kimia%20pangan&f=false
- Arumaningrum, D., Susilo, B., & Argo, B. D. (2015). Pengaruh proporsi sukrosa dan lama osmosis terhadap kualitas sari buah naga putih (*Hylocereus undatus*). *Jurnal Keteknikan Pertanian Tropis dan Biosistem*, 3(1), 100 – 105. <https://jkptb.ub.ac.id/index.php/jkptb/article/view/262>

- Asmara, A. T. (2020). *Karakteristik fisik, kimia dan sensoris fruit leather jambu mete (*Anacardium occidentale*) dengan perlakuan konsentrasi sukrosa dan gum arab*. Skripsi, UPN "Veteran" Jawa Timur. <https://repository.upnjatim.ac.id/3217/>
- Atviolani, R. (2016). *Pengaruh konsenterasi sukrosa dan pektin terhadap karakteristik marmalade buah naga merah (*Hylocereus 52 polyrhizus*)*. Artikel Ilmiah, Universitas Pasundan. <http://repository.unpas.ac.id/15569/>
- Ayeni, A. O., Daramola, M. O., Taiwo, O., dkk. (2019). Production of citric acid from the fermentation of pineapple waste by *Aspergillus niger*. *The Open Chemical Engineering Journal*, 13(2019), 88 – 96. <https://doi.org/10.2174/1874123101913010088>
- Baek, S. Y., & Lee, C. H. (2016). "Effect of sucrose concentration on the color and texture of fruit jelly." *Food Science and Biotechnology*, 25(4), 1039-1045. <https://doi.org/10.1007/s10068-016-0095-2>
- Basasgili, M. I. (2018). Nilai Gizi Gula Pasir Putih. <https://nilaigizi.com/gizi/detailproduk/1097/nilai-kandungan-gizi-gulaputih-gula-pasir>
- Bigi, F., Haghghi, H., Leo, R. D., dkk. (2021). Multivariate exploratory data analysis by PCA of the combined effect of film-forming composition, drying conditions, and UV-C irradiation on the functional properties of films based on chitosan and pectin. *ELSEVIER: LWT*, 137(9). <https://doi.org/10.1016/j.lwt.2020.110432>
- Budiman, A. (2018). *Kajian sifat organoleptik dan karakteristik fisik fruit leather berbasis buah pepaya*. Skripsi, Universitas Katolik Soegijapranata. <https://repository.unika.ac.id/18845/>
- Cahyaningati, O. & Sulistiyati, T. D. (2020). Pengaruh penambahan tepung daun kelor (*Moringa oleifera Lamk*) terhadap kadar β-karoten dan organoleptik bakso ikan patin (*Pangasius pangasius*). *Journal of Fisheries and Marine Research*, 4(3), 345 – 351. <https://doi.org/10.21776/ub.jfmr.2020.004.03.5>
- Cao, S., Huang, Y., & Li, J. (2017). Interactions between pectin, sugars, and phenolic compounds: Effects on antioxidant activity and food texture. *Food Chemistry*, 229, 143–149. <https://doi.org/10.1016/j.foodchem.2017.02.027>
- Cao, W., Chen, J., Chen, H., dkk. (2019). "Effect of pectin on the color and texture properties of fruit-based gels." *Food Hydrocolloids*, 93, 249-257. <https://doi.org/10.1016/j.foodhyd.2019.04.034>
- Chandel, V., Biswas, D., Roy, S., Vaidya, D., Verma, A., & Gupta, A. (2022). Current Advancements in Pectin: Extraction, Properties and Multifunctional Applications. *Foods*, 11(17), 2683. <https://doi.org/10.3390/foods11172683>

- Chen, J., Yang, J., Ma, L., dkk. (2020). Structure-antioxidant activity relationship of methoxy, phenolic hydroxyl, and carboxylic acid groups of phenolic acids. *Naturererearch Scientific Reports*, 10(1). <https://doi.org/10.1038/s41598-020-59451-z>.
- Dewi, N. W. V. S. (2018). Pengaruh konsentrasi karagenan dan sukrosa terhadap sifat fisik, kimia dan organoleptik selai jambu biji merah (*Psidium guajava L.*). Artikel Ilmiah, Universitas Mataram.
- Dharmadewi, A. A. I. M. (2020). Analisis kandungan klorofil pada beberapa jenis sayuran hijau sebagai alternatif bahan dasar food suplement. *Jurnal Emasains: Jurnal Edukasi Matematika dan Sains*, 9(2), 171 – 176. <https://doi.org/10.5281/zenodo.4299383>
- Dipowaseso, D. A., Nurwantoro, & Hintono, A. (2018). Karakteristik fisik dan daya oles selai kolang-kaling yang dibuat melalui substitusi pektin dengan *modified cassava flour* (MOCAF) sebagai bahan pengental. *Jurnal Teknologi Pangan*, 2(1), 1 – 7. <https://doi.org/10.14710/itp.2018.20680>
- Einhorn-Stoll, U., Hatakeyama, H., & Hatakeyama, T. (2012). Influence of pectin modification on water binding properties. *Food Hydrocolloids*, 27(2), 494–502. <https://doi.org/10.1016/j.foodhyd.2011.08.019>
- Estiasih, T., Putri, W. D. R., & Widystuti, E. (2022). *Komponen Minor dan Bahan Tambahan Pangan*. PT Bumi Aksara. https://books.google.co.id/books?id=e7R9EAAAQBAJ&newbks=1&newbks_redir=0&lpg=PR4&dq=estiasih%20komponen%20minor&hl=id&q=PR4#v=onepage&q=estiasih%20komponen%20minor&f=false
- Fauziyah, A. N., Komalasari, A., & Ramadhan, M. G. (2022). Pengaruh penambahan berbagai konsentrasi pektin terhadap karakteristik *vegetable leather* brokoli (*Brassica oleracea L.*). *Jurnal Sains dan Teknologi Pangan*, 7(6), 5615 – 5627. <https://ojs.uho.ac.id/index.php/jstp/article/view/27992/17078>
- Fernández-Vázquez, R., Hewson, L., Fisk, I., dkk. (2013). Colour influences sensory perception and liking of orange juice. *BioMed Central Ltd.: Flavour Journal*, 1(2014). <https://flavourjournal.biomedcentral.com/articles/10.1186/2044-7248-3-1>
- Fitria, V. (2013). Karakterisasi pektin hasil ekstraksi dari limbah kulit pisang kepok (*Musa balbisiana* ABB). Skripsi, UIN Syarif Hidayatullah. <https://repository.uinjkt.ac.id/dspace/handle/123456789/26485>
- Fitriani, A. dan Mahanani, W. (2023). *Panduan Praktikum Analisis Pangan*. Universitas Ahmad Dahlan. <https://eprints.uad.ac.id/30771/>
- Handarbeni, R., G., Rahmayuni, & Rossi, E. (2024). Karakteristik fisikokimia dan sensori *fruit leather* dari campuran buah sirsak dan buah nangka. *Jurnal Teknologi dan Industri Pertanian Indonesia*, 16(2), 166 – 174. <https://doi.org/10.17969/itipi.v16i2.32962>

- Hendrawan, Y., Nadhif, A. M., Wibisono, Y., & Sutan, S. M. (2019). Pengaruh konsentrasi karagenan dan rasio daging wortel: air terhadap sifat fisikokimia *vegetable leather* wortel (*Daucus carota L.*). *Jurnal Keteknikan Pertanian Tropis dan Biosistem*, 7(2), 161 – 171. <https://dx.doi.org/10.21776/ub.jkptb.2019.007.02.6>
- Herawati, H. (2018). Potensi hidrokoloid sebagai bahan tambahan pada produk pangan dan nonpangan bermutu. *Jurnal Litbang Pertanian*, 37(1), 17 – 25. <https://dx.doi.org/10.21082/jp3.v37n1.2018.p17-25>
- Hui, Y.H., (1992). *Encyclopedia of Food Science and Technology*. Jhon Wiley and Sons Inc. Publisher.
- Hunaefi, D., & Ulfah, F. (2016). Pendugaan umur simpan produk pastry dengan *quantitative descriptive analysis* (QDA) dan metode arrhenius. *Jurnal Mutu Pangan*, 6(2), 72 – 78. <https://doi.org/10.29244/jmpi.2019.6.72>
- Indiarto, R., Nurhadi, B., & Subroto, E. (2012). Kajian karakteristik tekstur (*texture profil analysis*) dan organoleptik daging ayam asap berbasis teknologi asap cair tempurung kelapa. *Jurnal Teknologi Hasil Pertanian*, 5(2), 106 – 116. <https://www.researchgate.net/publication/350377704>
- Irviani, L. I. & Nisa, F. C. (2015). Pengaruh penambahan pektin dan tepung bungkil kacang tanah terhadap kualitas fisik, kimia dan organoleptik mie kering tersubsitusi MOCAF. *Jurnal Pangan dan Agroindustri*, 3(1), 215-225. <https://ipa.ub.ac.id/index.php/jpa/article/view/126>
- Iswendi, Yusmaita, E., & Pangestuti, A. D. (2019). Uji organoleptik sari jagung di laboratorium kimia FMIPA UNP. *Suluah Bendang: Jurnal Ilmiah Pengabdian Kepada Masyarakat*, 19(3), 108 – 116. <https://doi.org/10.2403/sb.0110>
- Kadir, M., Kaimuddin, Muhammad, F. B., dkk. (2018). GGE-biplot analysis of yield stability in environment trial of tropical wheat (*Triticum aestivum L.*) genotype under dry season in Indonesia. *Research on Crops*, 19(4), 680 – 688. <https://doi.org/10.31830/2348-7542.2018.0001.47>
- Kopjar, M., Lončarić, A., & Pichler, A. (2016). Evaluation of antioxidant interactions of combined model systems of phenolics in the presence of sugars. *Natural Product Communications*, 11(1), 75–78. <https://doi.org/10.1177/1934578X1601101008>
- Kopjar, M., Lončarić, A., & Pichler, A. (2016). Influence of disaccharides and pectin addition on antioxidant activity of phenolic. *Journal of Nutrition & Food Sciences*. <http://dx.doi.org/10.4172/2155-9600.C1.032>
- Krismawan, A. & Pato, U. (2023). Karakteristik *fruit leather* mangga-rosela dengan konsentrasi karagenan berbeda. *SAGU Journal – Agri. Sci. Tech.*, 22(1), 24 – 31. <https://sagu.ejournal.unri.ac.id/index.php/JSG/article/view/7965>

- Kumalaningsih, S., Suprayogi, & Yudha, B. (2005). *Membuat Makanan Siap Saji*. Trubus Agrisarana.
- Kurnia, F. L., Hunaefi, D., Yuliana, N. D., dkk. (2023). Characterization of physicochemical properties and sensory profile of red oncom in Dramaga District Bogor Regency. *Canrea Journal: Food Technology, Nutritons, and Culinary*, 6(2), 129 – 141. <https://doi.org/10.20956/canrea.v6i2.1013>
- Kurniawati, A. D., (2023). *Pengembangan Produk Pangan: Rancangan Penelitian dan Aplikasinya*. UB Press. https://books.google.co.id/books?id=iP30EAAAQBAJ&newbks=1&newbks_redir=0&lpg=PR4&dq=kurniawati%20pengembangan%20produk&hl=id&pg=PR4#v=onepage&q=kurniawati%20pengembangan%20produk&f=false
- Kurniawati, D. (2023). *Inovasi Produk TOGA Immunomodulator dan Budidayanya*. Penerbit NEM. https://books.google.co.id/books?id=Y2rDEAAAQBAJ&newbks=1&newbks_redir=0&lpg=PA42&dq=Inovasi%20Produk%20TOGA%20Immunomodulator%20dan%20Budidayanya&hl=id&pg=PA42#v=onepage&q=Inovasi%20Produk%20TOGA%20Immunomodulator%20dan%20Budidayanya&f=false
- Kusnandar, F. (2019). *Kimia Pangan dan Komponen Makro*. PT Bumi Aksara. https://books.google.co.id/books?id=JIX5DwAAQBAJ&newbks=1&newbks_redir=0&lpg=PR4&dq=kusnandar%20komponen&hl=id&pg=PR4#v=onepage&q=kusnandar%20komponen&f=false
- Lallo, S., Lewerissa, A. C., Rafi'i, U., dkk. (2019). Pengaruh ketinggian tempat tumbuh terhadap aktivitas antioksidan dan sitotoksik ekstrak rimpang lengkuas (*Alpinia galanga* L.). *Majalah Farmasi dan Farmakologi*, 23(3), 118 – 123. <https://doi.org/10.20956/mff.v23i3.9404>
- Lam, Y. B., Yusri, A. S., & Sarbon, N. M. (2025). Effect of gelling agents on the techno-functional, collagen bioavailability and phytochemical properties of botanic gummy jelly containing marine hydrolyzed collagen. *Food Chemistry Advances*, 6(2025). <https://doi.org/10.1016/j.focha.2025.100915>
- Lamusu, D. (2018). Uji organoleptik jalangkote ubi jalar ungu (*Ipomoea batatas* L) sebagai upaya diversifikasi pangan. *Jurnal Pengolahan Pangan*, 3(1), 9 – 15. <https://doi.org/10.31970/pangan.v3i1.7>
- Lara-Espinoza, C., Carjaval-Millan, E., Balandran-Quintana, R., dkk. (2018). Pectin and pectin-based composite materials: beyond food texture. *MDPI: Molecules*, 23(2018), 942 – 977. <https://doi.org/10.3390/molecules23040942>
- Latifah, Nurismanto, R., & Agniya, C. (2013). Pembuatan selai lembaran terong belanda. *Jurnal Teknologi Pangan*, 101 – 113. <https://doi.org/10.33005/jtp.v5i2.409>

- Lawalata, V. N., Talakua, R. A., & Tetelepta, G. (2020). Karakteristik kimia dan mikrobiologi sari buah pisang tongka langit (*Musa troglodytarum*) dengan perlakuan lama blansing. *J. Sains dan Teknologi Pangan (JSTP)*, 5(2), 2824-2833. <http://dx.doi.org/10.33772/jstp.v5i2.12035>
- Lestari, H., Maflahah, I., & Asfan, D. F. (2022). Desain kemasan garam fungsional tanaman alur (*Suaeda maritima*) dengan metode kansei engineering. *Seminar Nasional Sumber Daya Lokal (SEMNASDAL III)*, 3(1). <https://prosiding.uim.ac.id/index.php/semnasdal/article/view/162>
- Lewicki, P. P., & Jakubczyk, E. (2019). Effect of drying conditions on the mechanical properties of dried foods. *Journal of Food Engineering*, 262, 48–55. <https://doi.org/10.1016/j.jfoodeng.2019.04.012>
- Li, X., Xie, J., & Guo, Y. (2018). Effects of sugar addition on the structure and antioxidant activity of pectin-based gels. *Carbohydrate Polymers*, 198, 316–323. <https://doi.org/10.1016/j.carbpol.2018.06.067>
- Liu, K. (2019). Effects of sample size, dry ashing temperature and duration on determination of ash content in algae and other biomass. *Algal Research*, 40(2019). <https://doi.org/10.1016/j.algal.2019.101486>
- Likumahua, M. H., Moniharpon, E., & Tuhumury, H. C. D. (2022). Pengaruh konsentrasi gula terhadap karakteristik fisikokimia dan organoleptik marmalade jeruk nipis (*Citrus aurantiifolia* S.). *J. Sains dan Teknologi Pangan (JSTP)*, 7(2), 4978 – 4993. <http://dx.doi.org/10.33772/jstp.v7i2.23415>
- Lismawati, Tutik, & Nofita. (2021). Kandungan beta karoten dan aktivitas antioksidan terhadap ekstrak buah labu kuning (*Cucurbita moschata*). *Jurnal Mandala Pharmacon Indonesia*, 7(2), 263 – 372. <https://doi.org/10.35311/jmpi.v7i2.111>
- Lolaen, L. A., Fatimawali, & Citrainingtyas, G. (2013). Uji aktivitas antioksidan kandungan fitokimia jus buah gandaria (*Bouea macrophylla* Griffith). *PHARMACON*, 2(2). <https://doi.org/10.35799/pha.2.2013.1416>
- Lukito, Y. A. (2020). *The effect of CMC against characteristic physicochemistry and organoleptic fruit leather pineapple*. Skripsi, Universitas Katolik Widya Mandala. <https://repository.ukwms.ac.id/id/eprint/21113>
- Maflahah, I., Supriyanto, S., & Asfan, D. F. (2022). Effects of long blanching time on nutritional composition of seablite (*Suaeda maritima*) flour. International Conference on Sustainability Agriculture and Biosystem (ICSAB 2022), 1182(2023). <https://doi.org/10.1088/1755-1315/1182/1/012047>
- Maidayana, Zaidiyah, & Nilda, C. (2019). Pengaruh penambahan sukrosa dan pektin terhadap mutu kimia permen jelly buah srikaya (*Annona squamosa* L.). *Jurnal Ilmiah Mahasiswa Pertanian Unsyiah*, 4(2), 257 – 265. www.jim.unsyiah.ac.id/JFP

- Makmur, T., Wardhana, M. Y., & Chairuni, A. R., (2022). Daya terima konsumen terhadap produk olahan minuman serbuk dari limbah biji nangka (*Arthocarpus heterophilus*). *MAHATANI*, 5(1), 90 – 97. <https://doi.org/10.52434/mja.v5i1.1766>
- Maleta, H. S., Indrawati, R., Limantara, L., dkk. (2018). Ragam metode ekstraksi karotenoid dari sumber tumbuhan dalam dekade terakhir (telaah literatur). *Jurnal Rekayasa Kimia dan Lingkungan*, 13(1), 40 – 50. <https://doi.org/10.23955/rkl.v13i1.10008>
- Marsigit, W., Tutuarima, T., & Hutapea, R. (2018). Pengaruh penambahan gula dan karagenan terhadap karakteristik fisik, kimia dan organoletik *soft candy* jeruk kalamansi (*Citrofortunella microcarpa*). *Jurnal Agroindustri*, 8(2), 113 – 123. <https://doi.org/10.31186/j.agroind.8.2.113-123>
- Marzelly, A. D., Yuwanti, S., & Lindriat, T. (2018). Karakteristik fisik, kimia, dan sensoris *fruit leather* pisang ambon (*Musa paradisiaca* S.) dengan penambahan gula dan karagenan. *Jurnal Agroteknologi*, 11(02), 172 – 185. <https://www.researchgate.net/publication/330681839>
- Mas'ula, A. U. & Palupi, H. T. (2018). Pengaruh penambahan pektin kulit jeruk dan sukrosa terhadap karakteristik fisikokimia dan organoleptik selai jahe (*Zingiber officinale*). *Jurnal Teknologi Pangan*, 9(2), 132 – 139. <https://jurnal.yudharta.ac.id/v2/index.php/Teknologi-Pangan/article/view/1192/1036>
- Mercado-Mercado, G., de la Rosa, L. A., & Alvarez-Parilla, E. (2020). Effect of pectin on the interactions among phenolic compounds determined by antioxidant capacity. *Journal of Molecular Structure*, 1199(2020). <https://doi.org/10.1016/j.molstruc.2019.126967>
- Mingga, M. N. & Swasono, M. A. H. (2018). Pengaruh proporsi gula dan pektin pada pembuatan permen *jelly carica* (*Carica Pubescens* L.). *Jurnal Teknologi Pangan*, 9(2), 105 – 113. <https://doi.org/10.35891/tp.v9i2.1189>
- Mishra, S., Kumar, S., & Pandey, S. (2013). Effects of pectin and sugar concentration on gel formation and quality characteristics of mango jam. *Food Science and Technology*, 53(1), 51-58. <https://doi.org/10.1016/j.lwt.2013.02.002>
- Mohsin, F., Schmitt, J., Kanzler, C., dkk. (2019). PCA-based identification and differentiation of FTIR data from model melanoidins with specifics molecular composition. *Food Chemistry*, 30(281), 106 – 113. <https://doi.org/10.1016/j.foodchem.2018.12.054>
- Molyneux, P. (2004). The use of the stable free radical diphenylpicryl-hydrazyl (DPPH) for estimating antioxidant activity. *Songklanakarin J. Science Technology*, 26(2), 211 – 219. <https://www.thaiscience.info/journals/article/song/10462423.pdf>
- Muchtadi, T. R., (2008). *Teknologi Proses Pengolahan Pangan*. Institut Pertanian Bogor.

- Muhammad, W. N., Rosida, Anggreini, R. A. (2023). Karakteristik selai lembaran dengan perlakuan proporsi kesemek : labu kuning dan penambahan karagenan. *J. Sains dan Teknologi Pangan (JSTP)*, 8(6), 6938 – 6948. <https://ojs.uho.ac.id/index.php/jstp/article/view/45976/19499>
- Mulyadi. (2015). *Aplikasi edible coating dari pektin kulit kakao dengan penambahan berbagai konsentrasi carboxy metil cellulose (CMC) dan gliserol untuk mempertahankan kualitas buah tomat selama penyimpanan.* Skripsi, Universitas Medan Area. <https://repository.uma.ac.id/jspui/handle/123456789/9589>
- Mustofa, A. & Wulandari, Y. W. (2020). model matematis kadar beta karoten labu kuning (*Cucurbita maxima*) selama proses pengeringan dalam kabinet drier. *Jurnal Teknologi Pangan*, 14(1), 8 – 15. <https://doi.org/10.33005/itp.v14i1.2178>
- Nababan, D. R. R., Nugroho, S., & Ismail, R. (2023). Analisis kegagalan pada coil spring depan sepeda motor kapasitas 160 cc. *Jurnal Teknik Mesin*, 11(3), 408 – 413. <https://ejournal3.undip.ac.id/index.php/jtm>
- Nabilah, T. A., Anjliany, M., & Syafitri, M. I. (2022). Variation of pectin and sugar concentration on the characteristic of passion fruit gummy candy. *Indonesian Food Science and Technology Journal*, 6(1), 19 – 26. <https://doi.org/10.22437/ifstj.v6i1.21295>
- Noviasari, S., Assyifa, P. S., & Sulaiman, I. (2023). Functional characteristic of analog rice made from taro kimpul flour (*Xhantosoma sagitifolium*). *Elkawnie: Journal of Islamic Science and Technology*, 8(1), 175 – 189. <https://doi.org/10.22373/ekw.v8i1.12614>
- Oktaviani, D., Maflahah, I., & Supriyanto. (2023). Pengaruh waktu blanching terhadap karakteristik garam sehat dari tanaman alur (*Suaeda maritima*). *Agroindustrial Technology Journal*, 7(3), 128 – 140. <http://dx.doi.org/10.21111/atj.v7i3.10448>
- Otoni, C. G., Avena-Bustillos R.J., Azeredo H.M., dkk. (2017) Recent advances on edible films based on fruits and vegetables—a review, comprehensive reviews. *Food Science and Food Safety*, 16(5), 1151 – 1169. <https://doi.org/10.1111/1541-4337.12281>
- Pathirana, S., Herath, N., Perera, D. , dkk. (2023). Evaluation of phytochemical profile and in -vitro antioxidant activity *Suaeda maritima*. Conference: *International Conference on Applied and Pure Sciences*, 3(35), 157.
- Pebrianti, T., Samsuddin, H., & Kusumastuti, Y. (2024). *Buku Ajar Teori Pengambilan Keputusan.* Penerbit SonPedia. https://www.researchgate.net/publication/381855266_BUKU_AJAR_TEORI_PENGAMBILAN_KEPUTUSAN

- Pedrolli, D. B., Monteiro, A. C., Gomes, E., dkk. (2009). Pectin and pectinases: production, characterization and industrial application of microbial pectinolytic enzymes. *The Open Biotechnology Journal*, 3(2009), 9 – 18. <https://doi.org/10.2174/18740700903010009>
- Permatasari, P., Parnanto, N.H., & Ishartani, D. (2016). Karakteristik fisik, kimia dan organoleptik *vegetable leather* cabai hijau (*Capsicum annuum var. annuum*) dengan penambahan berbagai konsentrasi pektin. *Jurnal Teknologi Hasil Pertanian*, 10(1), 21 – 31. <https://jurnal.uns.ac.id/ilmupangan/article/view/17488>
- Pico, Y. (2007). *Food Toxicants Analysis: Techniques, Strategies and Development*. Elsevier Science. <https://doi.org/10.1016/B978-0-444-52843-8.X5000-7>
- Pornpitakdamrong, A. & Sudjaroen, Y. (2014) Seablite (suaeda maritima) product for cooking, Samut Songkram Province, Thailand. *Food and Nutrition Sciences*, 5, 850 – 856. <http://dx.doi.org/10.4236/fns.2014.59094>
- Prabowo, F. M. (2012). Pengaruh penambahan gula aren (*Arenga pinnata*) terhadap kualitas wadi ikan betok (*Anabas testudineus Bloch*). Skripsi, Universitas Brawijaya. <https://repository.ub.ac.id/id/eprint/133082/>
- Pulu, S. R., Sipahelut, S. G., & Tuhumury, H. C. D. (2022). Pengaruh konsentrasi gula terhadap mutu selai lembaran namnam (*Cynometra cauliflora L.*). *J. Sains dan Teknologi Pangan (JSTP)*, 7(6), 5722 – 5733.
- Puspita, D., Merdekawati, W., & Mahendra, A. P. S. (2021). Penurunan konsentrasi klorofil krim sup *Caulerpa racemosa* yang dikeringkan dengan *vacuum drying oven*. *Jurnal Teknologi Pangan dan Gizi*, 20(2), 94 – 101. <https://doi.org/10.33508/jtpg.v20i2.3045>
- Rahman, M. S. (2007). *Handbook of Food Preservation*. CRC Press.
- Riftyan, E., Ivroni, M. C., Yusmarini, Pato, U., & Johan, V. S. (2023). The characterization and sensory assessment of fruit leather with a combination of puree jicama and pineapple. *International Conference on Sustainability Agriculture and Biosystem (ICSAB 2022)*, 1182(2023). <https://dx.doi.org/10.1088/1755-1315/1182/1/012068>
- Ristianingsih, Y., Lestari, I., & Wulanandari, W. (2021). *Pektin Biosorben*. LPPM UPN "Veteran" Yogyakarta. <http://eprints.upnyk.ac.id/33680/1/Buku%20Ajar%20Pektin.pdf>
- Rodiyanti, Ginting, S., & Yusraini, E. (2017). Pengaruh perbandingan bubur mentimun dengan bubur brokoli dan persentase gum arab terhadap mutu *vegetable leather*. *Jurnal Rekayasa Pangan dan Pertanian*, 5(4), 660–664. <https://repositori.usu.ac.id/handle/123456789/56556>
- Rohmah, A., Minchah, N. C. U., & Fuadah, N. R. (2023). Eksplorasi potensi lokal tanaman alur (suaeda maritima) sebagai antibakteri streptococcus mutans penyebab karies pada gigi. *JURNISMIO*, 1(4), 21 – 29. (MST). <https://ojs.smam10gkb.sch.id/index.php/Jurnismio/article/view/10>

- Roikah, S., Rengga, W. D. P., Latifah, dkk. (2016). Ekstraksi dan karakterisasi pektin dari belimbing wuluh (*Averrhoa bilimbi L.*). *Jurnal Bahan Alam Terbarukan*, 5(1), 29 – 36. <https://doi.org/10.15294/jbat.v4i2.5432>
- Rosida, D. F., Yulistiani, R., & Mabbury, R. N. F. (2022). The characteristicsphysicochemical of instant drink from groove leaves (*suaeda maritima*) using maltodextrin of taro tubers. *3rd International Conference Eco-Innovation in Science, Engineering, and Technology*, 254 – 260. <http://dx.doi.org/10.11594/nstp.2022.2737>
- Rosmianto, J., Sani, E. Y., & Putri, A. S. (2020). Berbagai konsentrasi gula terhadap karakteristik dan organoleptik fruit leather like krokot (*Portulaca oleracea*). *Jurnal Mahasiswa*, Universitas Semarang. <https://repository.usm.ac.id/detail-jurnalmahasiswa-489.html>
- Rosyida, F. (2014). Pengaruh jumlah gula dan asam sitrat terhadap sifat organoleptik, kadar air, dan jumlah mikroba manisan kering siwalan (*Borassus flabellifer*). *Jurnal Tata Boga*, 3(1), 297 – 307. <https://ejournal.unesa.ac.id/index.php/jurnal-tata-boga/article/view/7072>
- Rulaningtyas, R., Suksmono, A. B., Mengko, T. L. R., dkk. (2015). Segmentasi citra berwarna dengan menggunakan metode clustering berbasis patch untuk identifikasi *Mycobacterium tuberculosis*. *Jurnal Biosains Pascasarjana*, 17(1), 19 – 25. <https://doi.org/10.20473/jbp.v17i1.2015.19-25>
- Said, N. S., Olawuyi, I. F., & Lee, W. Y. (2023). Pectin hydrogels: gel-forming behaviors, mechanisms, and food applications. *MDPI: Gels*, 9(2023), 732 – 760. <https://doi.org/10.3390/gels9090732>
- Sajidan, Atmojo, I. R. W., Adi, F. P., dkk. (2023). *Paradigma Baru Pembelajaran IPA Terapan*. CV Pajang Putra Wijaya. <https://books.google.co.id/books?id=krIEAAAQBAJ&lpg=PP1&hl=id&pg=PP1#v=onepage&q&f=false>
- Sani, M. F. H., Setyowati, Kadaryati, S. (2019). Pengaruh teknik pengolahan terhadap kandungan beta-karoten pada brokoli (*Brassica oleracea L.*). *Ilmu Gizi Indonesia*, 2(2), 133 – 140. <https://doi.org/10.35842/ilgi.v2i2.108>
- Sari, S. R., Silsia, D., Suci, B. T., dkk. (2023). Aktivitas antioksidan selai lembaran kolang kolang kaling (*Arenga pinnata*) dengan pengaruh penambahan bunga rosella (*Hibiscus sabdariffa L.*) dan pektin. *Prosiding Seminar Nasional Pertanian Pesisir (SENATASI)*, 2(1), 61 – 71. <https://semnas.bpfp-unib.com/index.php/SENATASI/article/view/179>
- Setiaboma, W., Mareta, D. T., & Fitriani, V. (2019). Karakterisasi sifat kimia dan fisik fruit leather pisang kepok putih (*Musa acuminata sp.*) pada berbagai suhu pengeringan. *Jurnal Ilmu Pangan dan Hasil Pertanian*, 3(1), 54 – 59. <http://doi.org/10.26877/jiphp.v3i1.3486>

- Shalaby, E. A., Mahmoud, G. I., & Shanab, S. M. M. (2016). Suggested mechanism for the effect of sweeteners on radical scavenging activity of phenolic compounds in black and green tea. *Frontiers in Life Science*, 9(4), 241 – 251.
<https://doi.org/10.1080/21553769.2016.1233909>
- Sharma, M., Thakur, S., & Mishra, H. N. (2019). Effect of pectin-based edible coatings on the antioxidant activity and shelf life of fresh-cut fruits. *Food Hydrocolloids*, 94, 51–60.
<https://doi.org/10.1016/j.foodhyd.2019.03.012>
- Shinwari, K. J. & Rao, P. S. (2018). Stability of bioactive compounds in fruit jam and jelly during processing and storage: A review. *Trends in Food Science & Technology*, 75(2018), 181 – 193.
<https://doi.org/10.1016/j.tifs.2018.02.002>
- Soeparyo, M. K., Rawung, D., & Assa, J. R. (2018). Pengaruh perbandingan tepung sagu (*Metroxylon sp.*) dan tepung kacang merah (*Phaseolus vulgaris L.*) terhadap sifat fisikokimia dan organoleptik food bar. *Jurnal Teknologi Pertanian*, 9(2), 43 – 55.
<https://doi.org/10.35791/jteta.v9i2.23248>
- Sudarmadji, S. (1997). *Prosedur Analisa untuk Bahan Makanan dan Pertanian*. Penerbit Liberty.
- Suhariyadi, Kartika, C., & Permatasari, I. (2017). Pengolahan tumbuhan alur (*Suaeda maritima*)terhadap kadar vitamin A dengan metode spektrofotometri. *Analisis Kesehatan Sains*, 6(2), 473–479.
- Susilo, A., Rosyidi, D., Jaya, F., dkk. (2019). *Dasar Teknologi Hasil Ternak*. UB Press.
https://books.google.co.id/books?id=vq6QDwAAQBAJ&newbks=1&ne_wbks_redir=0&lpg=PR3&dq=susilo%20dasar%20ternak&hl=id&pg=PR3#v=onepage&q=susilo%20dasar%20ternak&f=false
- Suwarno, Ratnani, R. D., & Hartati, I. (2015). Proses pembuatan gula invert dari sukrosa dengan katalis asam sitrat, asam tartrat dan asam klorida. *Momentum*, 11(2), 99 – 103. <https://doi.org/10.36499/jim.v11i2.1382>
- Tahar, N., Fitrah, M., & David, N. A. M. (2017). Penentuan kadar protein daging ikan terbang (*Hyrundicthys oxycephalus*) sebagai substitusi tepung dalam formulasi biskuit. *Jurnal Farmasi FKIK*, 5(4), 251 – 257.
<https://doi.org/10.24252/jfunam.v5i4.4467>
- Taswin, N. S., Asmawati, & Haryani, S. (2022). Kajian literatur pembuatan fruit leather dari labu kuning dan wortel. *JURNAL ILMIAH MAHASISWA PERTANIAN*, 7(3), 263 – 269.
<https://doi.org/10.17969/jimfp.v7i3.20766>
- Thebaudin, J. Y., Lefebvre, A. C., Harrington, M., & Bourgeois, C. M. (1997). Dietary fibres: Nutritional and technological interest. *Trends in Food Science & Technology*, 8(2), 41-48.
[https://doi.org/10.1016/S0924-2244\(97\)01004-8](https://doi.org/10.1016/S0924-2244(97)01004-8)

- Tiwari, R. B. (2019). Advances in technology for production of fruit bar: review. *Pantnagar Journal of Research*, 17(1), 11 – 18. <https://www.cabidigitallibrary.org/doi/full/10.5555/20203479843>
- Trisnawaty, Y. (2017). *Hubungan antara konsep diri akademik dengan pengambilan keputusan melanjutkan pendidikan ke perguruan tinggi pada remaja akhir*. Skripsi, Universitas Islam Riau. <https://repository.uir.ac.id/2634/>
- Tuhumury, H. C. D., Moniharpon, E., Rahana, H. C., dkk. (2023). Karakteristik fisikokimia dan sensoris selai pisang tongka langit (*Musa troglodytarum*) dengan variasi konsentrasi pektin. *Jurnal Teknologi Hasil Pertanian JTHP*, 16(2), 116 – 127. <https://doi.org/10.20961/jthp.v16i2.57975>
- Umah, A., Parnanto, N. H. R., & Ishartani, D. (2016). Kajian karakteristik fisik, kimia dan sensoris fruit and vegetable leather nangka (*Artocarpus heterophyllus*) dan tomat (*Lycopersicum commune*) dengan variasi penambahan sukrosa. *Jurnal Teknosains Pangan*, 5(4), 12 – 20. <https://jurnal.uns.ac.id/teknosains-pangan/article/view/8292/7448>
- Wahyuni, S., Asranudin, H., Rianse, M. I. K., & Sadimantara, M. S. (2019). Effect of κ-carrageenan concentration on physical and mechanical properties of vegetable leather based on kelor leaves (*Moringa oleifera L.*). *IOP Conf. Series: Earth and Environmental Science*, 260(1). <http://dx.doi.org/10.1088/1755-1315/260/1/012180>
- Wulansari, D & Chairul. (2011). Penapisan aktivitas antioksidan dan beberapa tumbuhan obat Indonesia menggunakan radikal 2,2-Diphenyl-1-Picrylhydrazyl (DPPH). *Majalah Obat Tradisional*, 16(1), 22 – 25. <https://www.neliti.com/id/publications/180820>
- Yadav dkk. (2009). *Food hydrocolloids and their role in functional food development*. *Journal of Food Science and Technology*.
- Yang, M., Chen, X., Wang, L., dkk. (2025). Effect of moisture migration on texture and viscoelasticity of Chinese yam during multi-phase microwave drying (MMD) - focusing on the evaporation-dehydration stage. *Food Chemistry: X*, 26(2025). <https://doi.org/10.1016/j.fochx.2025.102314>
- Yapo, B. M. (2017). Pectin quantity, composition and physicochemical behavior as influenced by the purification process. *Food Hydrocolloids*, 72, 265–272. <https://doi.org/10.1016/j.foodhyd.2017.06.007>
- Yusmita, L. & Wijayanti, R. (2018). Pengaruh penambahan jerami nangka (*Artocarpus heterophyllus Lam*) terhadap karakteristik fruit leather mangga (*Mangifera indica L.*). *Jurnal Teknologi dan Industri Pertanian Indonesia*, 10(1), 36 – 41. <https://doi.org/10.17969/jtipi.v10i1.10152>
- Yuwidasari, E. A., Yudiono, K.. & Susilowati, S. (2019). Kualitas permen jelly dari pektin kulit buah naga (*Hylocereus polyrhizus*) dan penambahan gula pasir. *BisTek Pertanian*, 6(1), 27 – 41. <https://doi.org/10.37832/bistek.v6i01.8>

Zainab, Fakhry, M., & Rahman, A. (2021). Optimasi pembuatan *tomato leather* (*Lycopersicum esculentum* Mill.). *Jurnal Agrosains*, 6(2), 62 – 68.
<https://doi.org/10.31102/agrosains.2021.6.2.62-68>

Zhao, H., Liu, F., & Wang, Y. (2020). Influence of sugar concentration on pectin gel formation and phenolic compound retention: Implications for antioxidant activity. *Journal of Food Science*, 85(5), 1358–1366.
<https://doi.org/10.1111/1750-3841.15003>