

DAFTAR PUSTAKA

- Aguilar, J. M., Bengoechea, C., Pérez, E., & Guerrero, A. (2020). Effect of different polyols as plasticizers in soy based bioplastics. *Industrial Crops and Products*, 153, 112522. <https://api.semanticscholar.org/CorpusID:219758081>
- Ahsan, M., Ashraf, H., Iahthisham-Ul-Haq, Liaquat, A., Nayik, G. A., Ramniwas, S., Alfarraj, S., Ansari, M. J., & Gere, A. (2024). Exploring pectin from ripe and unripe Banana Peel: A novel functional fat replacers in muffins. *Food Chemistry*, X, 23, 101539. <https://doi.org/10.1016/j.foodchx.2024.101539>
- Alderton, D. H. M. (2021). X-Ray Diffraction (XRD). *Encyclopedia of Geology*. <https://api.semanticscholar.org/CorpusID:226445062>
- Ali, M. M., Chu, C. Y., Thani, N. M., & Uda, M. (2024). Suatu Ulasan Mengenai Antioksidan, Sifat Fizikokimia, Manfaat Kesihatan, dan Pengendalian Selepas Tuai Tomato Ceri. *Sains Malaysiana*. <https://api.semanticscholar.org/CorpusID:269322081>
- Amalia, U. N., Maharani, S. E., & Widiaputri, S. I. (2020). *Aplikasi Edible Coating Patti Umbi Porang Dengan Penambahan Ekstrak Lengkuas Pada Buah Pisang*. <https://api.semanticscholar.org/CorpusID:225978687>
- Amoriello, T., Ciccoritti, R., & Ferrante, P. (2022). Prediction of Strawberries' Quality Parameters Using Artificial Neural Networks. *Agronomy*. <https://api.semanticscholar.org/CorpusID:248221980>
- Andri Cahyo Kumoro, A. C. K., Shinta Mariana, S. M., Tri Hanly Maurice, T. H. M., & Jefri Pandu Hidayat, J. P. H. (2022). Pectin Derived from Hydrolysis of Ripe Kepok Kuning Banana Peel Powder Employing Crude Pectinases Produced by *Aspergillus niger*. *Sains Malaysiana*, 51(7), 2047–2059. <https://doi.org/10.17576/jsm-2022-5107-09>
- Andriani, V., & Abyor Handayani, N. (2023). Recent technology of edible coating production: A review. *Materials Today: Proceedings*, 87, 200–206. <https://doi.org/10.1016/j.matpr.2023.02.397>
- Arias, D. J., Rodríguez, J., López, B. L., & Méndez, P. A. (2021). Evaluation of the physicochemical properties of pectin extracted from *Musa paradisiaca* banana peels at different pH conditions in the formation of nanoparticles. *Heliyon*, 7. <https://api.semanticscholar.org/CorpusID:231743797>
- Asrafil L, & Daniel. (2022). Review Artikel : Perbandingan Hasil Edible Coating Berbasis Kitosan, Pektin, Pati, dan Karagenan Terhadap Mutu dan Lama Penyimpanan Buah Tomat (*Solanum lycopersicum L.*). *Prosiding Seminar Nasional Kimia dan Terapan II*.

- BEN, Z. Y., Samsudin, H., & YHAYA, M. F. (2022). Glycerol: Its Properties, Polymer Synthesis, and Applications in Starch based Films. *European Polymer Journal*. <https://api.semanticscholar.org/CorpusID:250012669>
- Bravin, B., Peressini, D., & Sensidoni, A. (2006). Development and application of polysaccharide-lipid edible coating to extend shelf-life of dry bakery products. *Journal of Food Engineering*, 76(3), 280–290. <https://doi.org/10.1016/j.jfoodeng.2005.05.021>
- Colodel, C., & Petkowicz, C. L. D. O. (2019). Acid extraction and physicochemical characterization of pectin from cubiu (*Solanum sessiliflorum* D.) fruit peel. *Food Hydrocolloids*, 86, 193–200. <https://doi.org/10.1016/j.foodhyd.2018.06.013>
- Costa, E. M., Pereira, C. F., Ribeiro, A. A., Casanova, F., Freixo, R., Pintado, M. E., & Ramos, O. L. (2022). Characterization and Evaluation of Commercial Carboxymethyl Cellulose Potential as an Active Ingredient for Cosmetics. *Applied Sciences*. <https://api.semanticscholar.org/CorpusID:250158715>
- Davies, T. E., Li, H., Bessette, S., Gauvin, R., Patience, G. S., & Dummer, N. F. (2022). Experimental methods in chemical engineering: Scanning electron microscopy and X-ray ultra-microscopy-SEM XuM. *The Canadian Journal of Chemical Engineering*. <https://api.semanticscholar.org/CorpusID:247483911>
- Devianti, V. A., Chrisnandari, R. D., & Darmawan, R. (2019). Pengaruh Metode Ekstraksi Terhadap Mutu Pektin Dari Kulit Pisang Raja Nangka. *Jurnal Kimia Riset*, 4(2), 170. <https://doi.org/10.20473/jkr.v4i2.15753>
- Didar, Z., Soltan-Dallal, M. M., & Goharjoo, B. (2024). The effect of symbiotic coating of flaxseed mucilage-defatted rice bran carbohydrate on quality of dried mango, viability of *Bifidobacterium animalis* subsp. *Lactis* BB12 on storage and simulating gastrointestinal condition. *Food Science & Nutrition*, 12(8), 5548–5560. <https://doi.org/10.1002/fsn3.4206>
- Doumeng, M., Makhlof, L., Berthet, F., Marsan, O., Delb  , K., Denape, J., & Chabert, F. (2021). A comparative study of the crystallinity of polyetheretherketone by using density, DSC, XRD, and Raman spectroscopy techniques. *Polymer Testing*, 93, 106878. <https://doi.org/10.1016/j.polymertesting.2020.106878>
- Duggal, M., Singh, D. P., Singh, S., Khubber, S., Garg, M., & Krishania, M. (2024). Microwave-assisted acid extraction of high-methoxyl kinnow (*Citrus reticulata*) peels pectin: Process, techno-functionality, characterization and life cycle assessment. *Food Chemistry: Molecular Sciences*, 9. <https://doi.org/10.1016/j.fochms.2024.100213>

- Effendi, T. R., & Hermawan, A. (2021). Deteksi Kematangan Buah Pisang Berdasarkan Kulit Menggunakan Metode Multi-Level Thresholding dan YCbCr. *J-ICOM - Jurnal Informatika Dan Teknologi Komputer*. <https://api.semanticscholar.org/CorpusID:245573661>
- Ekayanti, N. L. F., Megawati, F., & Dewi, N. L. K. A. A. (2023). Pemanfaatan Tanaman Pisang (*Musa Paradisiaca* L.) Sebagai Sediaan Kosmetik. *Usadha*. <https://api.semanticscholar.org/CorpusID:258489876>
- Estrada-Girón, Y., Cabrera-Díaz, E., Esparza-Merino, R. M., Martín-del-Campo, A., & Valencia-Botín, A. J. (2020). Innovative edible films and coatings based on red color pectin obtained from the byproducts of *Hibiscus sabdariffa* L. for strawberry preservation. *Journal of Food Measurement and Characterization*, 14(6), 3371–3380. <https://doi.org/10.1007/s11694-020-00577-z>
- Fan, T.-T., Zhang, J., Cao, J., Xia, M.-H., Wang, T., & Cao, S. (2022). Effects of resveratrol treatment on quality and antioxidant properties of postharvest strawberry fruit. *Journal of Food Biochemistry*, e14176. <https://api.semanticscholar.org/CorpusID:248025548>
- Fithriana, E., Sari, T. K., Dewata, I., Kurniawati, D., & Away, R. D. Y. (2023). Pengaruh Massa Biosorben Terhadap Penyerapan Ion Logam Cu(II) Oleh Ekstrak Pektin dari Kulit Buah Kedondong (*Spondias dulcis*). *Periodic*, 12(2), 92. <https://doi.org/10.24036/periodic.v12i2.118466>
- Fitria, V. (2013). *Karakterisasi Pektin Hasil Ekstraksi dari Limbah Kulit Pisang Kepok*. Jakarta: UIN Syarif Hidayatullah .
- Friedrichsen, J. S. A., Bruni, A. R. S., Alves, E. S., Saqueti, B. H. F., Figueiredo, A. L., Souza, P. R. de, Mikcha, J. M. G., Scapim, M. R. S., Bonafe, E. G., & Santos, O. O. (2024). Biodegradable Coatings Based on Cassava Starch and Poly(Vinyl Alcohol): Potential Application for Prolonging the Shelf Life of Strawberries (*Fragaria ananassa*) cv. San Andreas. *ACS Food Science & Technology*, 4(2), 365–372. <https://doi.org/10.1021/acsfoodscitech.3c00456>
- Hussain, A., Batool, A., Yaqub, S., Iqbal, A., Kauser, S., Arif, M. R., Ali, S., Gors, F. I., Nisar, R., Hussain, A., Firdous, N., Fatima, H., & Ali, A. (2024). Effects of spray drying and ultrasonic assisted extraction on the phytochemicals, antioxidant and antimicrobial activities of strawberry fruit. *Food Chemistry Advances*, 5, 100755. <https://doi.org/10.1016/j.focha.2024.100755>
- International Pectin Producers Association. (2003). *Pectin: A natural gelling agent*. IPPA.

- Islam, K. S., Mustak, Md. H., Shishir, Md. K. H., Karim, Md. M., & Khan, G. Md. A. (2025). Biosynthesis of ZnO nanoparticles using banana peel pectin for antibacterial and photocatalytic applications. *South African Journal of Chemical Engineering*, 52, 127–140. <https://doi.org/10.1016/j.sajce.2025.02.002>
- Jayarathna P.L.I, Jayawardena J.A.E.C, & Vanniarachchy M.P.G. (2020). *Identification of Physical, Chemical Properties and Flavor Profile of Spondias dulcis in Three Maturity Stages.* <https://doi.org/10.5281/ZENODO.3695472>
- Khamidah, N., Sofyan, A., & Elena, N. (2022). Teknologi Edible Coating dari Pati Kulit Pisang terhadap Mutu Buah Apel Malang (*Malis sylvestris*). *Jurnal Ilmiah Inovasi*. <https://api.semanticscholar.org/CorpusID:252146142>
- Khodaei, D., Hamidi-Esfahani, Z., & Rahmati, E. (2021). Effect of edible coatings on the shelf-life of fresh strawberries: A comparative study using TOPSIS-Shannon entropy method. *NFS Journal*, 23, 17–23. <https://doi.org/10.1016/j.nfs.2021.02.003>
- Khotima K., T. Santoso. (2020). Pemanfaatan Pektin Kulit Nangka (*Artocarpus Heterophyllus*) Sebagai Adsorben Logam Cu (II). *Media Eksakt*, 16 (2), 105-112.
- Kiyat, W. E., Clarissa, C., Claudia, G., Putri, M. T., Handoyo, C. C., Firdayanti, S. A., & Milka, M. (2019). Review: Ekstraksi Pektin dari Limbah Kulit Kedondong (*Spondias dulcis*) dan Pemanfaatannya sebagai Edible Coating pada Buah. *IJCA (Indonesian Journal of Chemical Analysis)*, 2(01). <https://doi.org/10.20885/ijca.vol2.iss1.art1>
- Kocira, A., Kozłowicz, K., Panasiewicz, K., Staniak, M., Szpunar-Krok, E., & Horthyńska, P. (2021). Polysaccharides as Edible Films and Coatings: Characteristics and Influence on Fruit and Vegetable Quality—A Review. *Agronomy*, 11(5), 813. <https://doi.org/10.3390/agronomy11050813>
- Kwak, H., Shin, S., Kim, J., Kim, J., Lee, D., Lee, H., Lee, E. J., & Hyun, J. (2021). Protective coating of strawberries with cellulose nanofibers. *Carbohydrate Polymers*, 258, 117688. <https://doi.org/10.1016/j.carbpol.2021.117688>
- Li, H., Zhu, Y., Yang, T.-X., Zhao, Q.-S., & Zhao, B. (2024). Development and characterization of pectin-based composite film incorporated with cannabidiol/2,6-di-O-methyl- β -cyclodextrin inclusion complex for food packaging. *International Journal of Biological Macromolecules*, 277, 133525. <https://doi.org/10.1016/j.ijbiomac.2024.133525>

- Mahardiani, L., Larasati, R. M., Susilowati, E., Hastuti, B., & Azizah, N. (2021). Potential edible coating of pectin obtained from banana peel for fruit preservation. *Journal of Physics: Conference Series*, 1912. <https://api.semanticscholar.org/CorpusID:235367086>
- Mamiru, D., & Gonfa, G. (2023). Extraction and characterization of pectin from watermelon rind using acetic acid. *Heliyon*, 9(2), e13525. <https://doi.org/10.1016/j.heliyon.2023.e13525>
- Maringgal, B., Hashim, N., Mohamed Amin Tawakkal, I. S., & Muda Mohamed, M. T. (2020). Recent advance in edible coating and its effect on fresh/fresh-cut fruits quality. *Trends in Food Science & Technology*, 96, 253–267. <https://doi.org/10.1016/j.tifs.2019.12.024>
- Maulidiyah, H., Sadiyah, F., Susanti, M., Nurdin1, Ansharullah. (2014). Isolasi Pektin dari Kulit Buah Kakao (*Theobroma Cacao L.*) dan Uji Daya Serapnya Terhadap Logam Tembaga (Cu) dan Logam Seng (Zn). *Jurnal Agroteknos*. 4(2), 113-119.
- Mitrean, L., Teleky, B.-E., Plosca, M.-P., Nemes, S.-A., Pascuta, M.-S., Ranga, F., Leopold, L., Martău, A.-G., Călinoiu, L.-F., Ștefănescu, B.-E., Gogou, E., Vasileiou, C., Krokida, M., & Vodnar, D.-C. (2024). Enhancing eco-friendly coatings: Aqueous olive leaves extract fortifies macroalgae-based packaging materials. *LWT*, 209, 116805. <https://doi.org/10.1016/j.lwt.2024.116805>
- Mobasserfar, R., Shiri, A., Mofid, V., Shahidi Noghabi, M., & Gharibzahedi, S. M. T. (2024). Grape pomace high-methoxyl pectin: A new prebiotic stabilizer for low-fat symbiotic yogurt gels – Optimization and characterization. *International Journal of Biological Macromolecules*, 282. <https://doi.org/10.1016/j.ijbiomac.2024.137139>
- Muñoz-Almagro, N., Herrero-Herranz, M., Guri, S., Corzo, N., Montilla, A., & Villamiel, M. (2021). Application of sunflower pectin gels with low glycemic index in the coating of fresh strawberries stored in modified atmospheres. *Journal of the Science of Food and Agriculture*, 101(14), 5775–5783. <https://doi.org/10.1002/jsfa.11226>
- Muryeti & Sadida K. (2025). The Effect of Chitosan-Based Edible Coating, Aloe Vera Extract With The Addition of Orange Pectin on The Shelf Life of Cut Pears. *Jurnal Pangan dan Agroindustri*, 13 (1), 55-67. <https://doi.org/10.21776/ub.jpa.2025.013.01.6>
- Nandiyanto, A. B. D., Oktiani, R., & Ragadhita, R. (2019). How to Read and Interpret FTIR Spectroscopic of Organic Material. *Indonesian Journal of Science and Technology*, 4(1), 97. <https://doi.org/10.17509/ijost.v4i1.15806>

- Newerli-Guz, J., Śmiechowska, M., Drzwięcka, A., & Tylingo, R. (2023). Bioactive Ingredients with Health-Promoting Properties of Strawberry Fruit (*Fragaria x ananassa* Duchesne). *Molecules*, 28. <https://api.semanticscholar.org/CorpusID:257605374>
- Nofita , S. G. Putri, S. Syafitri, Tutik, & P. Amalia. (2024). Analisis Kandungan Vitamin C dan Antioksidan dalam Sediaan Masker Gel Peel Off Ekstrak Kulit Pisang Ambon dan Pisang Kepok. . *Jurnal Mandala Pharmacon Indonesia*, 10(2), 589–600. <https://doi.org/10.35311/jmpi.v10i2.630>
- Ou, Y. X., Wang, H. Q., Ouyang, X., Zhao, Y. Y., Zhou, Q., Luo, C. W., Hua, Q. S., Ouyang, X. P., & Zhang, S. (2023). Recent advances and strategies for high-performance coatings. *Progress in Materials Science*, 136, 101125. <https://doi.org/10.1016/j.pmatsci.2023.101125>
- Pagarra, H., Hartati, H., Purnamasari, A. B., & Muhammad, N. B. (2020). *Characterization and qualitative analysis of pectin from kepok banana peels*. <https://api.semanticscholar.org/CorpusID:229252832>
- Pastrana, A. M., Shea, E. A., Fernandez-Bayo, J. D., Allison, B., Watson, D. C., Toniato, J., Gordon, T. R., & Simmons, C. W. (2022). Impact of biosolarization with almond hull and shell amendments for the control of *Fusarium oxysporum* f. Sp. *Lactucae* in a lettuce/tomato cropping system. *Crop Protection*, 152, 105856. <https://doi.org/10.1016/j.cropro.2021.105856>
- Patil, V., Shams, R., & Dash, K. K. (2023). Techno-functional characteristics, and potential applications of edible coatings: A comprehensive review. *Journal of Agriculture and Food Research*, 14, 100886. <https://doi.org/10.1016/j.jafr.2023.100886>
- Peretto, G., Du, W.-X., Avena-Bustillos, R. J., De J. Berrios, J., Sambo, P., & McHugh, T. H. (2017). Electrostatic and Conventional Spraying of Alginate-Based Edible Coating with Natural Antimicrobials for Preserving Fresh Strawberry Quality. *Food and Bioprocess Technology*, 10(1), 165–174. <https://doi.org/10.1007/s11947-016-1808-9>
- Poerba, Y. S., Martanti, D., Handayani, T., Herlina, & Witjaksono, D. (2020). *Katalog Pisang: Koleksi Kebun Plasma Nutfah Pisang Pusat Penelitian Biologi-LIPI*. <https://api.semanticscholar.org/CorpusID:226388490>
- Putri, A., Redaputri, A. P., & Rinova, D. (2022). Pemanfaatan Limbah Kulit Pisang Sebagai Pupuk Menuju Ekonomi Sirkular (Umkm Olahan Pisang Di Indonesia). *Jurnal Pengabdian UMKM*. <https://api.semanticscholar.org/CorpusID:269230839>
- Quluby, N. A., Triananda, R., Permanasari, A. R., Hidayatulloh, I., & Yulistiani, F. (2022). Pengaruh Konsentrasi Pelestis Pada Aplikasi Edible Coating

- Dari Tepung Pektin Apel Pada Buah Tomat. *Fluida*, 15(2), 82–88. <https://doi.org/10.35313/fluida.v15i2.4390>
- Rahman, M. S., Hasan, Md. S., Nitai, A. S., Nam, S., Karmakar, A. K., Ahsan, Md. S., Shiddiky, M. J. A., & Ahmed, M. B. (2021). Recent Developments of Carboxymethyl Cellulose. *Polymers*, 13. <https://api.semanticscholar.org/CorpusID:233425174>
- Rahmayulis. (2022). Ekstraksi Pektin Dari Kulit Pisang Kepok (*Musa balbisiana Colla*), Pisang Ambon (*Musa acuminata Colla*), Dan Pisang Emas (*Musa x paradisiaca L*). *SITAWA : Jurnal Farmasi Sains Dan Obat Tradisional*. <https://api.semanticscholar.org/CorpusID:266343200>
- Ramohlola, K. E., Iwuoha, E. I., Hato, M. J., & Modibane, K. D. (2020). Instrumental Techniques for Characterization of Molybdenum Disulphide Nanostructures. *Journal of Analytical Methods in Chemistry*, 2020, 1–29. <https://doi.org/10.1155/2020/8896698>
- Refilda, R., Gustira, D., Yefrida, Y., & Hanifa, D. (2024). Edible coating effect on physicochemical properties of banana (*Musa sapientum L.*) during storage. *IOP Conference Series: Earth and Environmental Science*, 1356(1), 012017. <https://doi.org/10.1088/1755-1315/1356/1/012017>
- Refilda, Tanjung, M. F., & Yefrida. (2023). The effect of sungkai leaf water extract addition to aloe vera gel edible coating on quality and shelf life of strawberries (*Fragaria* sp.). *IOP Conference Series: Earth and Environmental Science*, 1241(1), 012073. <https://doi.org/10.1088/1755-1315/1241/1/012073>
- Salehi, F. (2020). Edible Coating of Fruits and Vegetables Using Natural Gums: A Review. *International Journal of Fruit Science*, 20(sup2), S570–S589. <https://doi.org/10.1080/15538362.2020.1746730>
- Samtani, J. B., Rajevich, J., & Das, S. (2020). Evaluating Supplementary Nutrients to Improve Strawberry Fruit Quality and Yield. *International Journal of Fruit Science*, 20(sup1), 1029–1038. <https://doi.org/10.1080/15538362.2020.1774470>
- Sayed, Md. A., Kumar, J., Rahman, Md. R., Noor, F., & Alam, Md. A. (2022). Effect of extraction parameters on the yield and quality of pectin from mango (*Mangifera indica L.*) peels. *Discover Food*, 2(1), 28. <https://doi.org/10.1007/s44187-022-00029-1>
- Seliawati, I., Adirianto, B., Rafli, M., & Setiawan, Y. (2020). Pemanfaatan Limbah Kulit Pisang Ambon (*Musa paradisiaca*) Menjadi Kerupuk Bernilai Ekonomis. *Jurnal Agroekoteknologi Dan Agribisnis*. <https://api.semanticscholar.org/CorpusID:225936363>

- Semkiv, M. V., Ruchala, J., Dmytruk, K. V., & Sibirny, A. A. (2020). 100 Years Later, What Is New in Glycerol Bioproduction? *Trends in Biotechnology*. <https://api.semanticscholar.org/CorpusID:216235119>
- Senturk Parreidt, T., Schmid, M., & Müller, K. (2018). Effect of Dipping and Vacuum Impregnation Coating Techniques with Alginate Based Coating on Physical Quality Parameters of Cantaloupe Melon. *Journal of Food Science*, 83(4), 929–936. <https://doi.org/10.1111/1750-3841.14091>
- Spinei, M., & Oroian, M. (2022). The Influence of Extraction Conditions on the Yield and Physico-Chemical Parameters of Pectin from Grape Pomace. *Polymers*, 14(7), 1378. <https://doi.org/10.3390/polym14071378>
- Taha, I., Shahat, M., Mohamed, M., & Osheba, A. (2020). Improving the quality and shelf-life of strawberries as coated with nano-edible films during storage. *Al-Azhar Journal of Agricultural Research*, 45(2), 1–14. <https://doi.org/10.21608/ajar.2020.149403>
- Tekin G., H. Cetin, E. Gokturk, E. (2025). Uguzdogan. Isolation of Pectin with Tunable Physicochemical Properties from Different Fruit Peels by Microwave Assisted Extraction.
- Tripathi, S., & Mishra, S. (2021). *Antioxidant, Antibacterial Analysis of Pectin Isolated from Banana Peel and its Application in Edible Coating of Freshly Made Mozzarella Cheese*. <https://api.semanticscholar.org/CorpusID:237380777>
- Ukkunda, N. S., Santhoshkumar, P., Paranthaman, R., & Moses, J. A. (2024). X-ray diffraction and its emerging applications in the food industry. *Critical Reviews in Food Science and Nutrition*, 1–16. <https://api.semanticscholar.org/CorpusID:271960297>
- Ulmillah, A., Saputri, D. A., Listiana, I., & Karina, K. (2024). Pemanfaatan Tanaman Pisang (Musa spp.): Analisis Jenis, Organ Tanaman, Dan Aplikasi Dalam Bidang Pangan, Budaya, Dan Pertanian. *Jurnal Penelitian Sains Dan Pendidikan (JPSP)*. <https://api.semanticscholar.org/CorpusID:269683123>
- Utami, H. S., Aprilia, H., & Kurniaty, N. (2021). *Studi Literatur Potensi Pektin Kulit Buah dalam Pembuatan Edible Film*. <https://api.semanticscholar.org/CorpusID:234186165>
- Viscusi, G., Lamberti, E., D'Amico, F., Tammaro, L., & Gorrasi, G. (2022). Fabrication and Characterization of Bio-Nanocomposites Based on Halloysite-Encapsulating Grapefruit Seed Oil in a Pectin Matrix as a Novel Bio-Coating for Strawberry Protection. *Nanomaterials (Basel, Switzerland)*, 12(8), 1265. <https://doi.org/10.3390/nano12081265>

- Wang, R., He, X., Lin, H., Liang, R., Liang, L., Chen, J., & Liu, C. (2019). Solubility Difference between Pectic Fractions from Creeping Fig Seeds. *Polymers*, 11(1), 159. <https://doi.org/10.3390/polym11010159>
- Yadav, P., Manjunath, H., & Selvaraj, R. (2019). Antibacterial and dye degradation potential of zero-valent silver nanoparticles synthesised using the leaf extract of *Spondias dulcis*. *IET Nanobiotechnology*, 13(1), 84–89. <https://doi.org/10.1049/iet-nbt.2018.5058>
- Yefrida, Y., Suyani, H., Aziz, H., & Efdi, M. (2020). *Validasi Metode MPM untuk Penentuan Kandungan Antioksidan dalam Sampel Herbal serta Perbandingannya dengan Metode PM, FRAP dan DPPH*. <https://api.semanticscholar.org/CorpusID:216195962>
- Zantar, Y., Noutfia, Y., Laglaoui, A., Maurady, A., Alfeddy, M. N., El Abbassi, N., Hassani Zerrouk, M., & Zantar, S. (2025). Impact of a coating of pectin and *Cinnamomum Zeylanicum* essential oil on the postharvest quality of strawberries packaged under different modified atmosphere conditions. *Discover Food*, 5(1), 11. <https://doi.org/10.1007/s44187-025-00271-3>
- Zebua, D. N., Prima, E. C., Yellianty, & Garnida, Y. (2025). Effect of a pectin edible coating with lemon peel extract to maintain strawberry fruit's quality during cold storage. *Food and Humanity*, 4, 100541. <https://doi.org/10.1016/j.foohum.2025.100541>
- Yesy, F. A. R. (2018). Ekstraksi dan Karakterisasi Pektin dari Kulit Buah Kluwih (*Artocarpus camansi blanco*). *Kovalen*, 60-73.