

DAFTAR PUSTAKA

- Abouo, V. N., Akmel, C. D., Kakou, E. K., Assidjou, E. N., Amani, G. N., & Yao, B. K. (2015). Modelling of Thin Layer Drying Kinetics of Cocoa Beans in A Microwave Oven and Sun. *Food and Environment Safety*, 14(2), 127–137.
- Agustin, A., Kesuma, S., Widayanti, E., & Ikayanti, R. (2022). Penetapan Kadar Fenol Total Ekstrak Etanol Berbagai Biji Buah Salak Bali (*Salacca zalanca* var. *Ambonensis*) Menggunakan Metode Folin Ciocalteu. *NUTRITURE JOURNAL*, 1(3), Article 3. <https://doi.org/10.31290/nj.v1i3.3705>
- Agustina, R., Nurba, D., Antono, W., & Septiana, R. (2019, June). Pengaruh Suhu dan Lama Penyangraian terhadap Sifat Fisik-Kimia Kopi Arabika dan Kopi Robusta. *Prosiding Seminar Nasional*. Inovasi Teknologi Untuk Masyarakat, Banda Aceh.
- Alamri, E., Rozan, M., & Bayomy, H. (2022). A study of chemical Composition, Antioxidants, and volatile compounds in roasted Arabic coffee. *Saudi Journal of Biological Sciences*, 29(5), 3133–3139. <https://doi.org/10.1016/j.sjbs.2022.03.025>
- Alqarni, M. H., Prawez, P., Salkini, M. A., & Abdel-Kader, M. S. (2018). *Roasting Effect On The Caffeine Contents And Antioxidant Potential Of Different Coffee Grades Available In The Saudi Market*. <https://doi.org/10.5281/ZENODO.2505094>
- Andri, K. B. (2025). *Berita BSIP TRI - Tren 2025: Peluang dan Daya Saing Kopi Indonesia*. <https://tanamanindustri.bsip.pertanian.go.id/berita/tren-2025-peluang-dan-daya-saing-kopi-indonesia>
- Anggraini, A. P., Damat, D., & Manshur, H. A. (2024). Studi Karakteristik Fisikokimia dan Organoleptik Bubuk Kopi dari Biji Cacat Hitam Kopi Robusta dengan Perbedaan Suhu Penyangraian. *Food Technology and Halal Science Journal*, 6(2), 117–132. <https://doi.org/10.22219/fths.v6i2.28307>
- Anindita, F., Bahri, S., & Hardi, J. (2016). Ekstraksi dan Karakterisasi Glukomanan Dari Tepung Biji Salak (*Salacca edulis* Reinw.). *KOVALEN*, 2(2). <https://doi.org/10.22487/j24775398.2016.v2.i2.6720>
- Apriyanti, I. (2022). Pengaruh Variasi Waktu Jemur dan Sangrai Terhadap Karakteristik Mutu Organoleptik Kopi Biji Salak (*Salacca Zalacca*) di Ud. Budi Jaya Desa Kramat Bangkalan. *Journal Locus Penelitian Dan Pengabdian*, 1(5), 361–378. <https://doi.org/10.36418/locus.v1i5.107>
- Arumsari, A. G., Surya, R., Irmasuryani, S., & Sapitri, W. (2021). Analisis Proses Roasting pada Kopi. *Jurnal Beta Kimia*, 1(2), Article 2. <https://doi.org/10.201185/jbk.v1i2.5586>
- Arziyah, D., Yusmita, L., & Wijayanti, R. (2022). Analisis Mutu Organoleptik Sirup Kayu Manis Dengan Modifikasi Perbandingan Konsentrasi Gula Aren Dan Gula Pasir. *Jurnal Penelitian Dan Pengkajian Ilmiah Eksakta*, 1(2), 105–109. <https://doi.org/10.47233/jppie.v1i2.602>
- Badan Pusat Statistik. (2021). *Statistika Hortikultura*. Badan Pusat Statistik.

- Badan Pusat Statistik. (2022). *Produksi Tanaman Buah-buahan—Tabel Statistik*. <https://www.bps.go.id/id/statistics-table/2/NjIjMg==/produksi-tanaman-buah-buahan.html>
- Bahrumi, P., Ratna, R., & Fadhil, R. (2022). Levelisasi Penyangraian Kopi: Suatu Kajian. *Jurnal Ilmiah Mahasiswa Pertanian*, 7(1), 522–525.
- Bastian, F., Hutabarat, O. S., Dirpan, A., Nainu, F., Harapan, H., Emran, T. B., & Simal-Gandara, J. (2021). From Plantation to Cup: Changes in Bioactive Compounds during Coffee Processing. *Foods*, 10(11), 2827. <https://doi.org/10.3390/foods10112827>
- Behera, G., Madhumita, M., Aishwarya, J., & Gayathri, V. (2021). Comparative Evaluation of Drying Kinetics of Carrot Slices in Hot air and Microwave Drying. *The Journal of Phytopharmacology*, 10(4), 242–248. <https://doi.org/10.31254/phyto.2021.10405>
- Bhumiratana, N., Adhikari, K., & Chambers, E. (2011). Evolution of sensory aroma attributes from coffee beans to brewed coffee. *LWT - Food Science and Technology*, 44(10), 2185–2192. <https://doi.org/10.1016/j.lwt.2011.07.001>
- Bobková, A., Hudáček, M., Jakabová, S., Belej, L., Capcarová, M., Čurlej, J., Bobko, M., Árvay, J., Jakab, I., Čapla, J., & Demianová, A. (2020). The effect of roasting on the total polyphenols and antioxidant activity of coffee. *Journal of Environmental Science and Health, Part B*, 55(5), 495–500. <https://doi.org/10.1080/03601234.2020.1724660>
- Bogusz, R., Bryś, J., Onopiuk, A., Pobiega, K., Tomczak, A., Kowalczewski, P. Ł., Rybak, K., & Nowacka, M. (2024). The Impact of Drying Methods on the Quality of Blanched Yellow Mealworm (*Tenebrio molitor* L.) Larvae. *Molecules*, 29(15), 3679. <https://doi.org/10.3390/molecules29153679>
- Brahmi, F., Mateos-Aparicio, I., Mouhoubi, K., Guemouni, S., Sahki, T., Dahmoune, F., Belmehdi, F., Bessai, C., Madani, K., & Boulekbache-Makhlouf, L. (2023). Kinetic Modeling of Convective and Microwave Drying of Potato Peels and Their Effects on Antioxidant Content and Capacity. *Antioxidants*, 12(3), 638. <https://doi.org/10.3390/antiox12030638>
- Bressani, A. P. P., Martinez, S. J., Evangelista, S. R., Dias, D. R., & Schwan, R. F. (2018). Characteristics of fermented coffee inoculated with yeast starter cultures using different inoculation methods. *LWT*, 92, 212–219. <https://doi.org/10.1016/j.lwt.2018.02.029>
- Carvalho, F. M., Moksunova, V., & Spence, C. (2020). Cup texture influences taste and tactile judgments in the evaluation of specialty coffee. *Food Quality and Preference*, 81, 103841. <https://doi.org/10.1016/j.foodqual.2019.103841>
- Chan, H. Y., Rukayadi, Y., Azman, E. M., Ashari, R., & Lim, S. A. H. (2024). Physicochemical Properties and Sensory Acceptability of Fermented Roasted Robusta Coffee (*Coffea canephora* L.) Beans. *Journal of Engineering and Technological Sciences*, 56(3), 389–403. <https://doi.org/10.5614/j.eng.technol.sci.2024.56.3.7>
- Cho, A. R., Park, K. W., Kim, K. M., Kim, S. Y., & Han, J. (2014). Influence of Roasting Conditions on the Antioxidant Characteristics of Colombian Coffee (*Coffea arabica* L.) Beans: Roasting Condition Affects Antioxidant

- Activity of Coffee Beans. *Journal of Food Biochemistry*, 38(3), 271–280.
<https://doi.org/10.1111/jfbc.12045>
- Christie, C., & Lestari, N. A. (2020). Identifikasi Morfologi dan Kekerabatan Salak Di Jawa Timur. *VIABEL: Jurnal Ilmiah Ilmu-Ilmu Pertanian*, 14(2), Article 2. <https://doi.org/10.35457/viabel.v14i2.1228>
- Córdoba, N., Moreno, F. L., Osorio, C., Velásquez, S., Fernandez-Alduenda, M., & Ruiz-Pardo, Y. (2021). Specialty and regular coffee bean quality for cold and hot brewing: Evaluation of sensory profile and physicochemical characteristics. *LWT*, 145, 111363.
<https://doi.org/10.1016/j.lwt.2021.111363>
- Cwiková, O., Komprda, T., Šottníková, V., Svoboda, Z., Simonová, J., Slováček, J., & Jůzl, M. (2022). Effects of Different Processing Methods of Coffee Arabica on Colour, Acrylamide, Caffeine, Chlorogenic Acid, and Polyphenol Content. *Foods*, 11(20), 3295.
<https://doi.org/10.3390/foods11203295>
- Da Costa, D. S., Albuquerque, T. G., Costa, H. S., & Bragotto, A. P. A. (2023). Thermal Contaminants in Coffee Induced by Roasting: A Review. *International Journal of Environmental Research and Public Health*, 20(8), 5586. <https://doi.org/10.3390/ijerph20085586>
- De Araújo Cordeiro, A. R. R., De Medeiros, L. L., Bezerra, T. K. A., Pacheco, M. T. B., De Sousa Galvão, M., & Madruga, M. S. (2020). Effects of thermal processing on the flavor molecules of goat by-product hydrolysates. *Food Research International*, 138, 109758.
<https://doi.org/10.1016/j.foodres.2020.109758>
- dePaula, J., & Farah, A. (2019). Caffeine Consumption through Coffee: Content in the Beverage, Metabolism, Health Benefits and Risks. *Beverages*, 5(2), 37. <https://doi.org/10.3390/beverages5020037>
- Diniyah, N., & Lee, S.-H. (2020). Komposisi Senyawa Fenol dan Potensi Antioksidan dari Kacang-Kacangan: REVIEW Phenolic Composition and Antioxidant Potential of Legumes – A Review. *Jurnal Agroteknologi*, 14(1), 91–102.
- Dong, W., Hu, R., Chu, Z., Zhao, J., & Tan, L. (2017). Effect of different drying techniques on bioactive components, fatty acid composition, and volatile profile of robusta coffee beans. *Food Chemistry*, 234, 121–130.
<https://doi.org/10.1016/j.foodchem.2017.04.156>
- Eggleston, G., & Vercellotti, J. R. (2000). Degradation of Sucrose, Glucose and Fructose in Concentrated Aqueous Solutions Under Constant pH Conditions at Elevated Temperature. *Journal of Carbohydrate Chemistry*, 19(9), 1305–1318. <https://doi.org/10.1080/07328300008544153>
- ElGamal, R., Song, C., Rayan, A. M., Liu, C., Al-Rejaie, S., & ElMasry, G. (2023). Thermal Degradation of Bioactive Compounds during Drying Process of Horticultural and Agronomic Products: A Comprehensive Overview. *Agronomy*, 13(6), 1580. <https://doi.org/10.3390/agronomy13061580>
- Eröz Poyraz, İ., Öztürk, N., Kıyan, H. T., & Demirci, B. (2016). Volatile compounds of *Coffea arabica* L. green and roasted beans. *Anadolu*

- University Journal Of Science And Technology –C Life Sciences and Biotechnology*, 5(1). <https://doi.org/10.18036/btdc.13390>
- Eshetu, E. F., Tolassa, K., Mohammed, A., Berecha, G., & Garedew, W. (2022). Effect of processing and drying methods on biochemical composition of coffee (*Coffea arabica* L.) varieties in Jimma Zone, Southwestern Ethiopia. *Cogent Food & Agriculture*, 8(1), 2121203. <https://doi.org/10.1080/23311932.2022.2121203>
- Fadai, N. T., Melrose, J., Please, C. P., Schulman, A., & Van Gorder, R. A. (2017). A heat and mass transfer study of coffee bean roasting. *International Journal of Heat and Mass Transfer*, 104, 787–799. <https://doi.org/10.1016/j.ijheatmasstransfer.2016.08.083>
- Fatah, K. M. A. (2020). Analisis Unjuk Kerja Oven Pengering Hasil Modifikasi Dengan Variasi Kecepatan Aliran Udara Panas. *Infotekmesin*, 11(2), 153–157. <https://doi.org/10.35970/infotekmesin.v11i2.261>
- Fawwaz, M., Muflihunna, A., Pratama, M., Rahmawati, R., Razak, R., & Baits, M. (2022). Total phenolic and flavonoid compound of crude and purified extract of green tea leaves (*Camellia sinensis*) from Makassar-Indonesia. *Jurnal Fitofarmaka Indonesia*, 9(3), 19–24. <https://doi.org/10.33096/jffi.v9i3.916>
- Febrianto, N. A., & Zhu, F. (2023). Coffee bean processing: Emerging methods and their effects on chemical, biological and sensory properties. *Food Chemistry*, 412, 135489. <https://doi.org/10.1016/j.foodchem.2023.135489>
- Febrina, D., & Prabandari, R. (2021). Aktivitas Antioksidan Ekstrak Etanol Biji Salak Pondoh (*Salacca zalacca*) Kultivar Nglumut dengan Metode 1,1-Difenil-2-Pikrilhidrazil (DPPH). *Seminar Nasional Penelitian Dan Pengabdian Kepada Masyarakat (SNPPKM)*, 1524–1531.
- Frankova, A., Manourova, A., Kotikova, Z., Vejvodova, K., Drabek, O., Riljakova, B., Famera, O., Ngula, M., Ndiyoi, M., Polesny, Z., Verner, V., & Tauchen, J. (2021). The Chemical Composition of Oils and Cakes of *Ochna serrulata* (Ochnaceae) and Other Underutilized Traditional Oil Trees from Western Zambia. *Molecules*, 26(17), 5210. <https://doi.org/10.3390/molecules26175210>
- Freitas, V. V., Borges, L. L. R., Castro, G. A. D., Almeida, L. F., Crepalde, L. T., Kobi, H. D. B., Vidigal, M. C. T. R., Dos Santos, M. H., Fernandes, S. A., Maitan-Alfenas, G. P., & Stringheta, P. C. (2024). Influence of roasting levels on chemical composition and sensory quality of Arabica and Robusta coffee: A comparative study. *Food Bioscience*, 59, 104171. <https://doi.org/10.1016/j.fbio.2024.104171>
- Fujiko, M., Maulidea, K., Mierza, V., & Sumardi, S. (2023). Penghambatan Pertumbuhan Bakteri *Dermaococcus nishinomiyaensis* dan *Micrococcus luteus* Dengan Ekstrak Biji Salak (*Salacca zalacca* (Geartn.) Voss). *Jambura Journal of Health Science and Research*, 5(2), 533–540.
- Girma, B., Gure, A., & Wedajo, F. (2020). Influence of Altitude on Caffeine, 5-Caffeoylquinic Acid, and Nicotinic Acid Contents of Arabica Coffee Varieties. *Journal of Chemistry*, 2020, 1–7. <https://doi.org/10.1155/2020/3904761>

- Grüneis, V., Schweiger, K., Galassi, C., Karl, C. M., Treml, J., Ley, J. P., König, J., Krammer, G. E., Somoza, V., & Lieder, B. (2021). Sweetness Perception is not Involved in the Regulation of Blood Glucose after Oral Application of Sucrose and Glucose Solutions in Healthy Male Subjects. *Molecular Nutrition & Food Research*, 65(2), 2000472. <https://doi.org/10.1002/mnfr.202000472>
- Grzelczyk, J., Fiurasek, P., Kakkar, A., & Budryn, G. (2022). Evaluation of the thermal stability of bioactive compounds in coffee beans and their fractions modified in the roasting process. *Food Chemistry*, 387, 132888. <https://doi.org/10.1016/j.foodchem.2022.132888>
- Hamid, Thakur, N. S., Thakur, A., & Kumar, P. (2020). Effect of different drying modes on phenolics and antioxidant potential of different parts of wild pomegranate fruits. *Scientia Horticulturae*, 274, 109656. <https://doi.org/10.1016/j.scienta.2020.109656>
- Hardina, H., Martadjaya, I. G. M. I. D., & Sudiarta, N. P. (2021). Inovasi Pengolahan Buah Salak Sebagai Produk Kuliner dan Oleh Oleh Khas di Desa Wisata Sibetan. *Jurnal Gastronomi Indonesia*, 9(2), 86–96. <https://doi.org/10.52352/jgi.v9i2.681>
- Herawati, D., Giriwono, P. E., Dewi, F. N. A., Kashiwagi, T., & Andarwulan, N. (2019). Critical roasting level determines bioactive content and antioxidant activity of Robusta coffee beans. *Food Science and Biotechnology*, 28(1), 7–14. <https://doi.org/10.1007/s10068-018-0442-x>
- Heriana, H., Sukainah, A., & Wijaya, M. (2023). Pengaruh Suhu dan Waktu Penyangraian Terhadap Kadar Kafein dan Mutu Sensori Kopi Liberika (*Coffea liberica*) Bantaeng. *PATANI*, 6(1), 1–10.
- Holschuh, A. (2025). *The Coffee and Coffee Shop Industries: What Consumers Want in Coffee*. <https://www.mintel.com/insights/food-and-drink/the-coffee-and-coffee-shop-industries-what-consumers-want-in-coffee/>
- Horizon. (2024). *Global Specialty Coffee Market Size & Outlook, 2024-2030*. <https://www.grandviewresearch.com/horizon/outlook/specialty-coffee-market-size/global>
- Hu, D., Liu, X., Qin, Y., Yan, J., Li, R., & Yang, Q. (2023). The impact of different drying methods on the physical properties, bioactive components, antioxidant capacity, volatile components and industrial application of coffee peel. *Food Chemistry: X*, 19, 100807. <https://doi.org/10.1016/j.fochx.2023.100807>
- Hurtta, M., Pitkänen, I., & Knuutinen, J. (2004). Melting behaviour of d-sucrose, d-glucose and d-fructose. *Carbohydrate Research*, 339(13), 2267–2273. <https://doi.org/10.1016/j.carres.2004.06.022>
- Ibroham, M. H., Jamilatun, S., & Kumalasari, I. D. (2022). A Review: Potensi Tumbuhan-Tumbuhan di Indonesia Sebagai Antioksidan Alami. *SEMINAR NASIONAL PENELITIAN*, 1–13.
- Imarc. (2025). *Snake Fruit Processing Plant Project Report 2025: Industry Trends, Plant Setup, Machinery, Raw Materials, Investment Opportunities, Cost and Revenue*. <https://www.imarcgroup.com/snake-fruit-processing-plant-project-report>

- Ismail, B. B., Huang, R., Liu, D., Ye, X., & Guo, M. (2022). Potential Valorisation of Baobab (*Adansonia digitata*) Seeds as a Coffee Substitute: Insights and Comparisons on The Effect Of Roasting on Quality, Sensory Profiles, and Characterisation of Volatile Aroma Compounds by HS-SPME/GC–MS. *Food Chemistry*, 394, 133475. <https://doi.org/10.1016/j.foodchem.2022.133475>
- Jeon, J.-S., Kim, H.-T., Jeong, I.-H., Hong, S.-R., Oh, M.-S., Yoon, M.-H., Shim, J.-H., Jeong, J. H., & Abd El-Aty, A. M. (2019). Contents of Chlorogenic Acids and Caffeine in Various Coffee-Related Products. *Journal of Advanced Research*, 17, 85–94. <https://doi.org/10.1016/j.jare.2019.01.002>
- Jiang, Z., Han, Z., Zhu, M., Wan, X., & Zhang, L. (2023). Effects of Thermal Processing on Transformation of Polyphenols and Flavor Quality. *Current Opinion in Food Science*, 51, 101014. <https://doi.org/10.1016/j.cofs.2023.101014>
- Joshua, J., & Sinuraya, R. K. (2018). Review Jurnal : Keanekaragaman Aktivitas Farmakologi Tanaman Salak (*Salacca zalacca*). *Farmaka*, 16(1), 99–107.
- Kadir, S., Darmadji, P., Hidayat, C., & Supriyadi. (2010). Fraksinasi dan Identifikasi Senyawa Volatil pada Asap Cair Tempurung Kelapa Hibrida. *Agritech*, 30(2), 57–67.
- Karta, I. W., Susila, L. A. N. K. E., Mastra, I. N., & Dikta, P. G. A. (2015). Kandungan Gizi Pada Kopi Biji Salak (*Salacca zalacca*) Produksi Kelompok Tani Abian Salak Desa Sibetan Yang Berpotensi sebagai Produk Pangan Lokal Berantioksidan dan Berdaya Saing. *Jurnal Virgin*, 1(2), 123–133.
- Kieu Tran, T. M., Kirkman, T., Nguyen, M., & Van Vuong, Q. (2020). Effects of Drying on Physical Properties, Phenolic Compounds and Antioxidant Capacity of Robusta Wet Coffee Pulp (*Coffea canephora*). *Heliyon*, 6(7), e04498. <https://doi.org/10.1016/j.heliyon.2020.e04498>
- Kim, I., Jung, S., Kim, E., Lee, J.-W., Kim, C.-Y., Ha, J.-H., & Jeong, Y. (2021). Physicochemical characteristics of Ethiopian *Coffea arabica* cv. Heirloom coffee extracts with various roasting conditions. *Food Science and Biotechnology*, 30(2), 235–244. <https://doi.org/10.1007/s10068-020-00865-w>
- Kitzberger, C. S. G., Pot, D., Marraccini, P., Filipe Protasio Pereira, L., Brígida Dos Santos Scholz, M., 1 IDR—Instituto de Desenvolvimento Rural do Paraná—IAPAR-EMATER, Rodovia Celso Garcia Cid, km 375, CEP 86047-902, Londrina, PR, Brazil, 2 CIRAD, UMR AGAP, F-34398 Montpellier, France, 3 Université Montpellier, CIRAD, INRA, Montpellier SupAgro, Montpellier, France, 4 CIRAD, UMR IPME, F-34398 Montpellier, France, & 5 EMBRAPA Café—Empresa Brasileira de Pesquisa Agropecuária, CEP 70770-901, Brasília, DF, Brazil. (2020). Flavor precursors and sensory attributes of coffee submitted to different post-harvest processing. *AIMS Agriculture and Food*, 5(4), 700–714. <https://doi.org/10.3934/agrfood.2020.4.700>

- Kleinwächter, M., & Selmar, D. (2010). Influence of Drying on The Content of Sugars in Wet Processed Green Arabica Coffees. *Food Chemistry*, 119(2), 500–504. <https://doi.org/10.1016/j.foodchem.2009.06.048>
- Knopp, S., Bytof, G., & Selmar, D. (2006). Influence of processing on the content of sugars in green Arabica coffee beans. *European Food Research and Technology*, 223(2), 195–201. <https://doi.org/10.1007/s00217-005-0172-1>
- Korkmaz, A., Atasoy, A. F., & Hayaloglu, A. A. (2020). Changes in volatile compounds, sugars and organic acids of different spices of peppers (*Capsicum annuum* L.) during storage. *Food Chemistry*, 311, 125910. <https://doi.org/10.1016/j.foodchem.2019.125910>
- Król, K., Gantner, M., Tatarak, A., & Hallmann, E. (2020). The content of polyphenols in coffee beans as roasting, origin and storage effect. *European Food Research and Technology*, 246(1), 33–39. <https://doi.org/10.1007/s00217-019-03388-9>
- Kulapichitr, F., Borompichaichartkul, C., Fang, M., Suppavorasatit, I., & Cadwallader, K. R. (2022). Effect of post-harvest drying process on chlorogenic acids, antioxidant activities and CIE-Lab color of Thai Arabica green coffee beans. *Food Chemistry*, 366, 130504. <https://doi.org/10.1016/j.foodchem.2021.130504>
- Kulapichitr, F., Borompichaichartkul, C., Suppavorasatit, I., & Cadwallader, K. R. (2019). Impact of drying process on chemical composition and key aroma components of Arabica coffee. *Food Chemistry*, 291, 49–58. <https://doi.org/10.1016/j.foodchem.2019.03.152>
- Kumoro, A. C., Alhanif, M., & Wardhani, D. H. (2020). A Critical Review on Tropical Fruits Seeds as Prospective Sources of Nutritional and Bioactive Compounds for Functional Foods Development: A Case of Indonesian Exotic Fruits. *International Journal of Food Science*, 2020, 1–15. <https://doi.org/10.1155/2020/4051475>
- Kusmiyati, K., & Fudholi, A. (2022). Performance Analysis and Kinetic Modeling of Coffee Beans in Microwave Convective Dryer Integrated Photovoltaic System. *International Information and Engineering Technology Association*, 9(4), 1089–1094. <https://doi.org/10.18280/mmep.090427>
- Lestari, D., Kadirman, K., & Patang, P. (2017). Substitusi Bubuk Biji Salak dan Bubuk Kopi Arabika dalam Pembuatan Bubuk Kopi. *Jurnal Pendidikan Teknologi Pertanian; Vol 3, No 1 (2017): Februari; 15-24 ; 2614-7858 ; 2476-8995*. <https://ojs.unm.ac.id/ptp/article/view/5190>
- Li, M., Chen, Y., Wang, X., Cheng, S., Liu, F., & Huang, L. (2019). Determination of drying kinetics and quality changes of *Panax quinquefolium* L. dried in hot-blast air. *LWT*, 116, 108563. <https://doi.org/10.1016/j.lwt.2019.108563>
- Li, Z., Zhao, C., & Cao, C. (2023). Production and Inhibition of Acrylamide during Coffee Processing: A Literature Review. *Molecules*, 28(8), 3476. <https://doi.org/10.3390/molecules28083476>
- Liao, Y.-C., Kim, T., Silva, J. L., Hu, W.-Y., & Chen, B.-Y. (2022). Effects of roasting degrees on phenolic compounds and antioxidant activity in coffee beans from different geographic origins. *LWT*, 168, 113965. <https://doi.org/10.1016/j.lwt.2022.113965>

- Liczbiński, P., & Bukowska, B. (2022). Tea and coffee polyphenols and their biological properties based on the latest in vitro investigations. *Industrial Crops and Products*, 175, 114265. <https://doi.org/10.1016/j.indcrop.2021.114265>
- Linangsari, T., Sandri, D., Lestari, E., & Noorhidayah. (2022). Evaluasi Sensori Snack Bar Talipuk dengan Penambahan Tepung Pisang Kepok (*Musa paradisiaca forma typica*) pada Panelis Anak-anak dan Dewasa. *Jurnal Agroindustri Halal*, 8(2), 213–221.
- Liu, H., Liu, H., Liu, H., Zhang, X., Hong, Q., Chen, W., & Zeng, X. (2021). Microwave Drying Characteristics and Drying Quality Analysis of Corn in China. *Processes*, 9(9), 1511. <https://doi.org/10.3390/pr9091511>
- Liu, Y., Liao, Y., Guo, M., Zhang, W., Sang, Y., Wang, H., Cheng, S., & Chen, G. (2022). Comparative elucidation of bioactive and volatile components in dry mature jujube fruit (*Ziziphus jujuba* Mill.) subjected to different drying methods. *Food Chemistry*, 14, 100311. <https://doi.org/10.1016/j.fochx.2022.100311>
- Lokaria, E., & Susanti, I. (2018). Uji Organoleptik Kopi Biji Salak dengan Varian Waktu Penyangraian. *BIOEDUSAINS: Jurnal Pendidikan Biologi Dan Sains; Vol 1 No 1 (2018): BIOEDUSAINS: Jurnal Pendidikan Biologi Dan Sains; 34-42; 2598-7453; 2622-3929; 10.31539/Bioedusains.V1i1*. <https://journal.ipm2kpe.or.id/index.php/BIOEDUSAINS/article/view/262>
- Mahardani, O. T., & Yuanita, L. (2021). Efek Metode Pengolahan dan Penyimpanan Terhadap Kadar Senyawa Fenolik dan Aktivitas Antioksidan. *UNESA Journal of Chemistry*, 10(1), 64–78.
- Makiso, M. U., Tola, Y. B., Ogah, O., & Endale, F. L. (2024). Bioactive compounds in coffee and their role in lowering the risk of major public health consequences: A review. *Food Science & Nutrition*, 12(2), 734–764. <https://doi.org/10.1002/fsn3.3848>
- Mangku, I. G. P., Suriati, L., Ardana, D. G. Y., & Putra, W. W. (2022). The Effects of Processing Methods on the Quality of Arabica Kintamani Green Beans. *International Journal of Food Studies*, 2, 374–385. <https://doi.org/10.7455/ijfs/11.2.2022.a9>
- Mardiah, M., Novidahlia, N., & Mashudi, M. (2012). Penentuan Metode Pengeringan (Cabinet Dryer dan Fluidized Bed Dryer) Terhadap Komponen dan Kapasitas Antioksidan Pada Rosela Kering (*Hibiscus sabdariffa* L). *Jurnal Pertanian*, 3(2), 104–110.
- Mazumdar, P., Pratama, H., Lau, S.-E., Teo, C. H., & Harikrishna, J. A. (2019). Biology, phytochemical profile and prospects for snake fruit: An antioxidant-rich fruit of South East Asia. *Trends in Food Science & Technology*, 91, 147–158. <https://doi.org/10.1016/j.tifs.2019.06.017>
- Mierza, V., Febriani, Y., Sumardi, S., Ramadhani, A. A., Julita, R., Telaumbanua, F. D., & Zuhra, E. (2023). Analisis Kromatografi Lapis Tipis dan Aktivitas Antimikroba Ekstrak N-Heksana, Etil Asetat dan Etanol Biji Salak (*Salacca zalacca* (Gaertn.) Voss). *Jambura Journal of Health Sciences and Research; Vol 5, No 2 (2023): April: Jambura Journal of Health Sciences*

- and Research; 590-601 ; 2655-643X ; 2623-0674.
<https://ejurnal.ung.ac.id/index.php/jjhsr/article/view/18914>
- Mirhosseini, H., Amid, B. T., & Cheong, K. W. (2013). Effect of Different Drying Methods on Chemical and Molecular Structure of Heteropolysaccharide-Protein Gum From Durian Seed. *Food Hydrocolloids*, 31(2), 210–219. <https://doi.org/10.1016/j.foodhyd.2012.11.005>
- Muñoz-Neira, M. J., Roa-Ardila, M. F., & Correa-Celi, C. R. (2019). Comparative Analysis of Drying Coffee Beans Using Microwave and Conventional Oven. *Revista Facultad de Ingeniería Universidad de Antioquia*, 95, 100–108. <https://doi.org/10.17533/udea.redin.20191151>
- Murray, R. K., Granner, D. K., & Rodwell, V. W. (2009). *Biokimia Harper Edisi 27*. EGC.
- Namora, J., Sihombing, M., & Rahardjo, M. (2020). Pengaruh Metode Pengeringan terhadap Senyawa Volatil pada Pembentukan Flavor Biji Kopi Robusta. *Prosiding Seminar Nasional Lahan Suboptimal Ke-8 Tahun 2020, Palembang 20 Oktober 2020 “Komoditas Sumber Pangan Untuk Meningkatkan Kualitas Kesehatan Di Era Pandemi Covid -19,”* 1028–1042.
- Nhan, P. P., & Phu, N. T. (2012). Effect of Time and Water Temperature on Caffeine Extraction From Coffee. *Pakistan Journal of Nutrition*, 11(2), 100–103.
- Normilawati, Fadlilaturrahmah, Hadi, S., & Normaidah. (2019). Penetapan Kadar Air Dan Kadar Protein Pada Biskuit Yang Beredar Di Pasar Banjarbaru. *CERATA Jurnal Ilmu Farmasi*, 10(2), 51–55. <https://doi.org/10.61902/cerata.v10i2.77>
- Nugroho, Y. A., & Ningsih, E. M. N. (2022). Hubungan Morfologi Vegetatif dan Generatif Salak Pondoh (*Salacca zalacca*) di Sentra Salak Pondoh Kabupaten Malang. *Agrika: Jurnal Ilmu-Ilmu Pertanian*, 14(2), 172–183.
- Obando, A. M., & Figueroa, J. G. (2024). Effect of Roasting Level on the Development of Key Aroma-Active Compounds in Coffee. *Molecules*, 29(19), 4723. <https://doi.org/10.3390/molecules29194723>
- Octaviana, A. C., & Sandrasari, D. A. (2024). Identifikasi Komponen Bioaktif Minuman Bubuk Kopi Jahe Merah Menggunakan Gas Chromatography-Mass Spectrometry. *Jurnal Teknologi Pangan Kesehatan*, 6(1), 12–21.
- Oesman, R., & Ardiansyah. (2022). Budi Daya Pohon Salak di Tanah Karo. *All Fields of Science J-LAS*, 2(2), 301–309.
- Osorio Pérez, V., Matallana Pérez, L. G., Fernandez-Alduenda, M. R., Alvarez Barreto, C. I., Gallego Agudelo, C. P., & Montoya Restrepo, E. C. (2023). Chemical Composition and Sensory Quality of Coffee Fruits at Different Stages of Maturity. *Agronomy*, 13(2), 341. <https://doi.org/10.3390/agronomy13020341>
- Özcan, M. M., Uslu, N., & Lemiasheuski, V. (2023). The effect of roasting in microwave and oven on selected constituents, antioxidant activity, fatty acids, phenolic compounds and mineral contents of Chestnut (*Cestanea*

- sativa Milles) kernels. *Food and Humanity*, 1, 716–722. <https://doi.org/10.1016/j.foohum.2023.07.014>
- Permaidi, M. R., Oktafa, H., & Agustianto, K. (2018). Peraancangan Sistem Uji Sensoris Makanan dengan Pengujian Preference Test (Hedonik dan Mutu Hedonik), Studi Kasus Roti Tawar, Menggunakan Algoritma Radial Basis Function Network. *Jurnal Mikrotik*, 8(1), 29–42.
- Portillo, O. R., & Arévalo, A. C. (2022). Coffee's carbohydrates. A critical review of scientific literature. *Bionatura*, 7(3), 1–12. <https://doi.org/10.21931/RB/2022.07.03.11>
- Porubcan, A. R., & Vickers, Z. M. (2005). Characterizing milk aftertaste: The effects of salivation rate, PROP taster status, or small changes in acidity, fat, or sucrose on acceptability of milk to milk dislikers. *Food Quality and Preference*, 16(7), 608–620. <https://doi.org/10.1016/j.foodqual.2005.01.007>
- Pratiwi H, A. R., Yusran, Isawati, & Artati. (2023). Analisis Kadar Antioksidan Pada Ekstrak Daun Binahong Hijau *Anredera cordifolia* (Ten.) Steenis. *Bioma : Jurnal Biologi Makassar*, 8(2), 65–74.
- Prayogo, K., Wulandari, W., & Suhartatik, N. (2016). Pembuatan Kopi Biji Salak (*Salacca zalacca*) dengan Variasi Lama Penyangraian dan Penambahan Bubuk Jahe. *Jurnal Teknologi Dan Industri Pangan*, 1(2), 69–78.
- Precoppe, M., Janjai, S., Mahayothee, B., & Müller, J. (2015). Batch uniformity and energy efficiency improvements on a cabinet dryer suitable for smallholder farmers. *Journal of Food Science and Technology*, 52(8), 4819–4829. <https://doi.org/10.1007/s13197-014-1544-y>
- Preinfalk, V., Schweiger, K., Hüller, L., Dunkel, A., Kimmeswenger, I., Deck, C. M., Rust, P., Somoza, V., Krammer, G. E., Ley, J. P., & Lieder, B. (2024). A high sucrose detection threshold is associated with increased energy intake and improved post-prandial glucose response independent of the sweetness intensity of isocaloric sucrose solutions. *Npj Metabolic Health and Disease*, 2(1), 1. <https://doi.org/10.1038/s44324-023-00003-0>
- Priadi, T., & Giyarto, G. T. (2019). *Profil Suhu dan Kadar Air Kayu dalam Pengeringan Oven Pemanas dan Gelombang Mikro*. 17(2).
- Purwanto, D., Bahri, S., & Ridhay, A. (2017). Uji Aktivitas Antioksidan Ekstrak Buah Purnajiwa (*Kopsia arborea* Blume.) dengan Berbagai Pelarut. *Kovalen*, 3(1), 24. <https://doi.org/10.22487/j24775398.2017.v3.i1.8230>
- Purwanto, N., Rismawati, E., & Sadiyah, Esti. R. (2015). Uji Sitotoksik Ekstrak Biji Salak (*Salacca Zalacca* (Gaert) Voss) dengan Menggunakan Metode Brine Shrimp Lethality Test (Bslt). *Prosiding Penelitian SPeSIA Unisba 2015*, 2, 616–622.
- Puspaningrum, D. H. D., & Sari, N. K. Y. (2020). Pengaruh Pengeringan dan Rasio Penyeduhan terhadap Sifat Fisik dan Kimia Teh Cascara Kopi Arabika (*Coffea arabika* L.). *Pro Food (Jurnal Ilmu Dan Teknologi Pangan)*, 6(2), 710–718.
- R. Portillo, O., & Arévalo, A. C. (2022). Coffee's Phenolic Compounds. A general overview of the coffee fruit's phenolic composition. *Bionatura*, 7(3), 1–19. <https://doi.org/10.21931/RB/2022.07.03.31>

- Rabani RS, I. G. A. Y., & Fitriani, P. P. E. (2022). Analisis Kadar Kafein dan Antioksidan Kopi Robusta (*Coffea canephora*) Terfermentasi *Saccharomyces cerevisiae*. *Jurnal Ilmu Dan Teknologi Pangan*, 11(2), 373–381.
- Rao, N. Z., Fuller, M., & Grim, M. D. (2020). Physiochemical Characteristics of Hot and Cold Brew Coffee Chemistry: The Effects of Roast Level and Brewing Temperature on Compound Extraction. *Foods*, 9(7), 902. <https://doi.org/10.3390/foods9070902>
- Rehman, S., & Rubab, S. (2022). Solar radiation impact on drying parameters of mint (*Mentha spicata* L.). *International Journal of Health Sciences*, 3235–3246. <https://doi.org/10.53730/ijhs.v6nS6.10053>
- Ribeiro, L. S., Miguel, M. G. D. C. P., Evangelista, S. R., Martins, P. M. M., Van Mullem, J., Belizario, M. H., & Schwan, R. F. (2017). Behavior of yeast inoculated during semi-dry coffee fermentation and the effect on chemical and sensorial properties of the final beverage. *Food Research International*, 92, 26–32. <https://doi.org/10.1016/j.foodres.2016.12.011>
- Ridho, A., Wathoni, N., Subarnas, A., & Levita, J. (2019). Insights of phytoconstituents and pharmacology activities of Salacca plants. *Journal of Applied Pharmaceutical Science*, 9(10), 120–124. <https://doi.org/10.7324/JAPS.2019.91017>
- Ridwan, M., Sasongko, R. M., & Zaki, A. (2023). Perilaku dan Respon Konsumen Kopi Terhadap Inovasi Produk Kopi Biji Salak. *Journal of Economic, Business and Engineering (JEBE); Vol 4 No 2 (2023): April; 189-198; 2716-2583; 10.32500/Jebe.V4i2*. <https://ojs.unsiq.ac.id/index.php/jebe/article/view/4314>
- Rodriguez, Y. F. B., Guzman, N. G., & Hernandez, J. G. (2020). Effect of The Postharvest Processing Method on The Biochemical Composition and Sensory Analysis of Arabica Coffee. *Engenharia Agrícola*, 40(2), 177–183. <https://doi.org/10.1590/1809-4430-eng.agric.v40n2p177-183/2020>
- Rosida, D. F., Dc, H., Ft, A., & N, H. (2018). Produksi Kopi Biji Salak Bangkalan dengan Mesin Pemecah Biji Efisiensi Tinggi. *Jurnal Teknologi Pangan*, 12(1). <https://doi.org/10.33005/jtp.v12i1.1111>
- Rune, C. J. B., Giacalone, D., Steen, I., Duelund, L., Münchow, M., & Clausen, M. P. (2023). Acids in brewed coffees: Chemical composition and sensory threshold. *Current Research in Food Science*, 6, 100485. <https://doi.org/10.1016/j.crfs.2023.100485>
- Saidi, I. A., Nurbaya, S. R., Azara, R., & Eviyanti. (2022). *Nutrisi dan Senyawa Bioaktif pada Sayuran Daun*. UMSIDA Press.
- Sajjacholapunt, P., Supratak, A., & Tuarob, S. (2022). Automatic measurement of acidity from roasted coffee beans images using efficient deep learning. *Journal of Food Process Engineering*, 45(11), e14147. <https://doi.org/10.1111/jfpe.14147>
- Salamatullah, A. M., Alkaltham, M. S., & Hayat, K. (2022). Effect of microwave roasting on the chemical constituents and antioxidant potentials of coffee beans. *International Food Research Journal*, 29(3), 552–560. <https://doi.org/10.47836/ifrj.29.3.08>

- Saleh, M. S. M., Siddiqui, M. J., Mediani, A., Ismail, N. H., Ahmed, Q. U., So'ad, S. Z. M., & Besbes, S. S. (2018). *Salacca zalacca*: A short review of the palm botany, pharmacological uses and phytochemistry. *Asian Pacific Journal of Tropical Medicine*, 11(12), 645–652. <https://doi.org/10.4103/1995-7645.248321>
- Saloko, S., Sulastri, Y., Murad, & Rinjani, M. A. (2019). *The effects of temperature and roasting time on the quality of ground Robusta coffee (Coffea robusta) using Gene Café roaster*. 060001. <https://doi.org/10.1063/1.5141310>
- Santanatoglia, A., Angeloni, S., Bartolucci, D., Fioretti, L., Sagratini, G., Vittori, S., & Caprioli, G. (2023). Effect of Brewing Methods on Acrylamide Content and Antioxidant Activity: Studying Eight Different Filter Coffee Preparations. *Antioxidants*, 12(10), 1888. <https://doi.org/10.3390/antiox12101888>
- Santosa, K. M., Supriyadi, Anggrahini, S., & Rahmadian, Y. (2020). Sensory Analysis, Caffeine, Chlorogenic Acid and Non-Volatile Taste Compounds of Arabica Coffee (*Coffea arabica*) Fermented with Sugar Addition for Brew Taste. *Indonesian Food and Nutrition Progress*, 17(2), 37–44. <https://doi.org/10.22146/ifnp.58664>
- Saputra, A., & Widuri, N. (2022). Faktor-Faktor Yang Mempengaruhi Kegiatan Pemeliharaan Tanaman Salak Pondoh (*Salacca zalacca*) Di Desa Karang Jinawi Kecamatan Sepaku Kabupaten Penajam Paser Utara. *Jurnal Agribisnis dan Komunikasi Pertanian (Journal of Agribusiness and Agricultural Communication)*, 5(1), 33. <https://doi.org/10.35941/jakp.5.1.2022.7060.33-41>
- Saud, S., & Salamatullah, A. M. (2021). Relationship between the Chemical Composition and the Biological Functions of Coffee. *Molecules*, 26(24), 7634. <https://doi.org/10.3390/molecules26247634>
- Schouten, M. A., Tappi, S., & Romani, S. (2020). Acrylamide in coffee: Formation and possible mitigation strategies – a review. *Critical Reviews in Food Science and Nutrition*, 60(22), 3807–3821. <https://doi.org/10.1080/10408398.2019.1708264>
- Seninde, D. R., & Chambers, E. (2020). Coffee Flavor: A Review. *Beverages*, 6(3), 44. <https://doi.org/10.3390/beverages6030044>
- Silalahi, M. (2018). Senyawa Bioaktif Pada *Acorus calamus* (L.) dan Pemanfaatannya Sebagai Obat Kanker dan Antimikroba. *Jurnal Dinamika Pendidikan*, 11(1), Article 1. <https://doi.org/10.51212/jdp.v11i1.799>
- Siregar, D. A., & Sari, L. P. (2020). Analisis Komposisi Kimia Dan Antioksidan Serbuk Biji Salak Padangsidempuan (*Salacca sumatrana* Becc). *Jurnal Education and Development; Vol 8 No 4 (2020): Vol.8.No.4.2020; 403 ; 2614-6061 ; 2527-4295 ; 10.37081/Ed.V8i4.* <http://journal.ipts.ac.id/index.php/ED/article/view/2086>
- Siregar, Y. D. I., Rudiana, T., & Riyadi, W. (2018). Identifikasi Komposisi Kimia dan Uji Aktivitas Antioksidan dari Biji Kurma (*Phoenix dactylifera*). *Jurnal Kimia VALENSI: Jurnal Penelitian Dan Pengembangan Ilmu*, 4(2), 182–189. <http://10.15408/jkv.v4i2.8818>

- Sitohang, A., Sihombing, D. R., Daniela, C., & Situmorang, R. (2021). Pemanfaatan Biji Salak (*Salacca edulis*) dan Ekstrak Jahe Merah (*Zingiber officinale* var. *Rubrum rhizoma*) sebagai Minuman Alternatif Pengganti Kopi Robusta (*Coffea canephora*). *Jurnal Riset Teknologi Pangan Dan Hasil Pertanian (RETIPA)*; Volume 1 Nomor 2; 38-48; 2745-4096; 10.54367/Retipa.V1i2.
<http://ejournal.ust.ac.id/index.php/retipa/article/view/1204>
- Soeswanto, B., Wahyuni, N. L. E., & Prihandini, G. (2021). The Development of Coffee Bean Drying Process Technology – A Review. *Proceedings of the 2nd International Seminar of Science and Applied Technology (ISSAT 2021)*, 207, 164–170. <http://creativecommons.org/licenses/by-nc/4.0/>.
- Somporn, C., Kamtuo, A., Theerakulpisut, P., & Siriamornpun, S. (2011). Effects of roasting degree on radical scavenging activity, phenolics and volatile compounds of Arabica coffee beans (*Coffea arabica* L. cv. *Catimor*): Roasting degree on radical-scavenging activity. *International Journal of Food Science & Technology*, 46(11), 2287–2296. <https://doi.org/10.1111/j.1365-2621.2011.02748.x>
- Song, J. L., Asare, T. S., Kang, M. Y., & Lee, S. C. (2018). Changes in Bioactive Compounds and Antioxidant Capacity of Coffee under Different Roasting Conditions. *Korean Journal of Plant Resources*, 31(6), 704–713. <https://doi.org/10.7732/KJPR.2018.31.6.704>
- Sun, X., Gu, D., Fu, Q., Gao, L., Shi, C., Zhang, R., & Qiao, X. (2019). Content variations in compositions and volatile component in jujube fruits during the blacking process. *Food Science & Nutrition*, 7(4), 1387–1395. <https://doi.org/10.1002/fsn3.973>
- Sunarharum, W. B., Williams, D. J., & Smyth, H. E. (2014). Complexity of coffee flavor: A compositional and sensory perspective. *Food Research International*, 62, 315–325. <https://doi.org/10.1016/j.foodres.2014.02.030>
- Supriyadi, Suhardi, Suzuki, M., Yoshida, K., Muto, T., Fujita, A., & Watanabe, N. (2002). Changes in the Volatile Compounds and in the Chemical and Physical Properties of Snake Fruit (*Salacca edulis* Reinw) Cv. *Pondoh* during Maturation. *Journal of Agricultural and Food Chemistry*, 50(26), 7627–7633. <https://doi.org/10.1021/jf020620e>
- Syukri, D., Sari, F. I. P., & Rini. (2023). Roasting conditions on metabolic profile of black honey arabica coffee (*Coffea arabica*). *IOP Conference Series: Earth and Environmental Science*, 1182(1), 012048. <https://doi.org/10.1088/1755-1315/1182/1/012048>
- Tarigan, E. B., Wardiana, E., Hilmi, Y. S., & Komarudin, N. A. (2022). The changes in chemical properties of coffee during roasting: A review. *IOP Conference Series Earth and Environmental Science*, 974, 1–8. <http://dx.doi.org/10.1088/1755-1315/974/1/012115>
- Tarwendah, I. P. (2017). Jurnal Review: Studi Komparasi Atribut Sensoris dan Kesadaran Merek Produk Pangan. *Jurnal Pangan Dan Agroindustri*, 5(2), 66–73.
- Thamkaew, G., Sjöholm, I., & Galindo, F. G. (2021). A review of drying methods for improving the quality of dried herbs. *Critical Reviews in Food Science*

- and *Nutrition*, 61(11), 1763–1786.
<https://doi.org/10.1080/10408398.2020.1765309>
- USDA Plants Database. (2023). <https://plants.usda.gov/home>
- Usman, M., Tarigan, B. Y., Aprilia, M., Zalvi, A. P., Sari, F. I., Romauli, N. D. M., & Sinaga, H. (2023). Pengujian Daya Terima (Uji Hedonik) pada Empat Merek Produk Yoghurt yang Dijual pada Pasar Modern (Supermarket) di Kecamatan Medan Kota. *Jurnal Agroindustri Pangan*, 2(2), 1–16.
- Várady, M., Tauchen, J., Fraňková, A., Klouček, P., & Popelka, P. (2022). Effect of method of processing specialty coffee beans (natural, washed, honey, fermentation, maceration) on bioactive and volatile compounds. *LWT*, 172, 114245. <https://doi.org/10.1016/j.lwt.2022.114245>
- Vignoli, J. A., Viegas, M. C., Bassoli, D. G., & Benassi, M. D. T. (2014). Roasting process affects differently the bioactive compounds and the antioxidant activity of arabica and robusta coffees. *Food Research International*, 61, 279–285. <https://doi.org/10.1016/j.foodres.2013.06.006>
- Viji, P., Sai, K. S. S., Debbarma, J., Das, P. H. D., Rao, B. M., & Ravishankar, C. N. (2019). Evaluation of physicochemical characteristics of microwave vacuum dried mackerel and inhibition of oxidation by essential oils. *Journal of Food Science and Technology*, 56(4), 1890–1898. <https://doi.org/10.1007/s13197-019-03651-7>
- Wahyuni, L., Purwanti, L., & Syafnir, L. (2017). Uji Aktivitas Antibakteri Ekstrak Bertingkat Biji Salak (*Salacca zalacca* varietas *zalacca* (gaert.) Voss terhadap *Staphylococcus aureus* dan *Escherichia coli*. *Prosiding Farmasi*, 3, 465–471.
- Wailzer, B., Klocker, J., Wolschann, P., & Buchbauer, G. (2016). Structural Features for Furan-Derived Fruity and Meaty Aroma Impressions. *Natural Product Communications*, 11(10), 1934578X1601101014. <https://doi.org/10.1177/1934578X1601101014>
- Werdayani, S., Jumaryanto, P., & Khasanah, N. (2017). Antioxidant Activity of Ethanolic Extract and Fraction of Salak Fruit Seeds (*Salacca zalacca* (Gaertn.) Voss.) Using DPPH (2-2- diphenyl-1-picrylhydrazyl) Method. *Jurnal Ilmu-Ilmu MIPA*, 137–146.
- Widayanti, S. M., Hoerudin, & Andes, I. (2021). Characteristics and postharvest life of snake fruit (*Salacca edulis* Reinw) during storage as influenced by application of activated nanostructured natural zeolites. *IOP Conference Series: Earth and Environmental Science*, 803(1), 012029. <https://doi.org/10.1088/1755-1315/803/1/012029>
- Winarno, F. G. W. & S. A. A. (2017). *Gastronomi Molekuler*. Gramedia Pustaka Utama.
- Wu, H., Lu, P., Liu, Z., Sharifi-Rad, J., & Suleria, H. A. R. (2022). Impact of roasting on the phenolic and volatile compounds in coffee beans. *Food Science & Nutrition*, 10(7), 2408–2425. <https://doi.org/10.1002/fsn3.2849>
- Yeager, S. E., Batali, M. E., Guinard, J.-X., & Ristenpart, W. D. (2023). Acids in coffee: A review of sensory measurements and meta-analysis of chemical composition. *Critical Reviews in Food Science and Nutrition*, 63(8), 1010–1036. <https://doi.org/10.1080/10408398.2021.1957767>

- Yu, J.-M., Chu, M., Park, H., Park, J., & Lee, K.-G. (2021). Analysis of Volatile Compounds in Coffee Prepared by Various Brewing and Roasting Methods. *Foods*, 10(6), 1347. <https://doi.org/10.3390/foods10061347>
- Yusibani, E., Ikramullah, I., Yufita, E., Jalil, Z., & Suhendi, E. (2023). The Effect of Temperature and Roasting Time on The Physical Properties of Arabica and Robusta Gayo Coffee Bean. *Journal of Applied Agricultural Science and Technology*, 7(2), 100–108. <https://doi.org/10.55043/jaast.v7i2.75>
- Yusibani, E., Putra, R. I., Rahwanto, A., Surbakti, M. S., Rajibussalim, & Rahmi. (2022). Physical properties of Sidikalang robusta coffee beans medium roasted from various colors of coffee cherries. *Journal of Physics: Conference Series*, 2243(1), 012046. <https://doi.org/10.1088/1742-6596/2243/1/012046>
- Zakariyya, F., Puspitasari, N., & Nur'aini, F. (2024). Growth of cocoa seedlings affected by application of zeolite-cocopeat-manure mixture as soil conditioner enriched by Trichoderma sp. *Pelita Perkebunan (a Coffee and Cocoa Research Journal)*, 40(1), 24–32. <https://doi.org/10.22302/iccri.jur.pelitaperkebunan.v40i1.578>
- Zhai, H., Dong, W., Tang, Y., Hu, R., Yu, X., & Chen, X. (2024). Characterization of the volatile flavour compounds in Yunnan Arabica coffee prepared by different primary processing methods using HS-SPME/GC-MS and HS-GC-IMS. *LWT*, 192, 115717. <https://doi.org/10.1016/j.lwt.2023.115717>
- Zhang, K., Cheng, J., Hong, Q., Dong, W., Chen, X., Wu, G., & Zhang, Z. (2022). Identification of changes in the volatile compounds of robusta coffee beans during drying based on HS-SPME/GC-MS and E-nose analyses with the aid of chemometrics. *LWT*, 161, 113317. <https://doi.org/10.1016/j.lwt.2022.113317>
- Zhu, J., Zhou, L., Zhao, M., Wei, F., Fu, H., & Marchioni, E. (2023). Revealing the dynamic changes of lipids in coffee beans during roasting based on UHPLC-QE-HR-AM/MS/MS. *Food Research International*, 174, 113507. <https://doi.org/10.1016/j.foodres.2023.113507>