

References

- Abal, K. E. T., Choresca JR., C. H., Fagutao, F. F., Anuevo, G., Apines-Amar, M. J. S., Catienza, F. A., & Pedroso, F. L. (2024). Nutritional composition and antioxidant properties of calamansi (*Citrus microcarpa*) peels in different drying processes. *Nusantara Bioscience*, 16(2). <https://doi.org/10.13057/nusbiosci/n160216>
- Abudureheman, B., Yu, X., Fang, D., & Zhang, H. (2022). Enzymatic oxidation of tea catechins and its mechanism. *Molecules*, 27(3), 942.
- Adhikary, B., Kashyap, B., Gogoi, R. C., Sabhapondit, S., Babu, A., Deka, B., Pramanik, P., & Das, B. (2023). Green tea processing by pan-firing from region-specific tea (*Camellia sinensis* L.) cultivars - a novel approach to sustainable tea production in Dooars region of North Bengal. *Food Chemistry Advances*, 2, 100181. <https://doi.org/10.1016/j.focha.2023.100181>
- Agatonovic-Kustrin, S., Ristivojevic, P., Gegechkori, V., & Litvinova, T. M. (2019). Essential Oil Quality and Purity Evaluation via FT-IR Spectroscopy and Pattern Recognition Techniques. *Applied Sciences*, 10(20), 7294. <https://doi.org/10.3390/app10207294>
- Aghnya, R. S. S. (2024). Uji Aktivitas Antioksidan Ekstrak Daun Jeruk Kingkit (*Triphasia trifolia*).
- Ahmed, R. (2024). High-performance liquid chromatography (HPLC): principles, applications, versatility, efficiency, innovation and comparative analysis in modern analytical chemistry and in pharmaceutical sciences.
- Ahmed, S., & Stepp, J. R. (2013). Green tea: The plants, processing, manufacturing and production. *Tea in health and disease prevention*, 2, 19-31.
- Akar, Z., Küçük, M., & Doğan, H. (2017). A new colorimetric DPPH• scavenging activity method with no need for a spectrophotometer applied on synthetic and natural antioxidants and medicinal herbs. *Journal of enzyme inhibition and medicinal chemistry*, 32(1), 640-647.

- Alasalvar, C., Topal, B., Serpen, A., Bahar, B., Pelvan, E., & Gökmen, V. (2012). Flavor characteristics of seven grades of black tea produced in Turkey. *Journal of Agricultural and Food Chemistry*, 60(25), 6323–6332. <https://doi.org/10.1021/jf301498p>
- Ali, A. H. (2022). High-performance liquid chromatography (HPLC): A review. *Ann. Adv. Chem*, 6(1), 010-020.
- Alure, M. D., Shinde, S. S., & Dalvi, S. M. Rapid FTIR Screening and Solvent-Dependent Phytochemical Characterization of *Cyperus rotundus* L.(Nut Grass) Extracts.
- Antony, A., & Farid, M. (2022). Effect of temperatures on polyphenols during extraction. *Applied Sciences*, 12(4), 2107.
- Ares, G., & Varela, P. (2017). Trained vs. Consumer panels for analytical testing: Fueling a long lasting debate in the field. *Food Quality and Preference*, 61, 79-86. <https://doi.org/10.1016/j.foodqual.2016.10.006>
- Aurica, P. (2021). Study regarding the determination of the refractive index and the Brix sugar concentration from water-based solutions by using the refractometer. Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering, 35(2).
- Bensemmane, N., Bouzidi, N., Daghbouche, Y., Garrigues, S., De la Guardia, M., & Hattab, M. E. (2022). Prediction of total phenolic acids contained in plant extracts by PLS-ATR-FTIR. *South African Journal of Botany*, 151, 295-305. <https://doi.org/10.1016/j.sajb.2022.10.009>
- Boronkay, G., Hamar-Farkas, D., Kisvarga, S., Békefi, Z., Neményi, A., & Orlóci, L. (2024). Developing a Colorimetrically Balanced, Measurement-Based Petal Colour System for Cultivated Rose (*Rosa* L. Cultivars) and the Resulting Colour Categories. *Plants*, 13(10), 1368.

- Bratovcic, A. J. A. S. (2020). Antioxidant enzymes and their role in preventing cell damage. *Acta Sci. Nutr. Health*, 4(3), 01-07.
- Cao, Q. Q., Wang, F., Wang, J. Q., Chen, J. X., Yin, J. F., Li, L., ... & Xu, Y. Q. (2021). Effects of brewing water on the sensory attributes and physicochemical properties of tea infusions. *Food Chemistry*, 364, 130235.
- Carbone, R., Caracciolo, F., Di Vita, G., D'Amico, M., & Spina, D. (2025). Consumer trends in the herbal tea market: a systematic literature review. *Food Reviews International*, 41(9), 2634-2652.
- Ćavar, S., & Maksimović, M. (2011). Antioxidant activity of essential oil and aqueous extract of *Pelargonium graveolens* L'Her. *Food Control*, 23(1), 263-267.
<https://doi.org/10.1016/j.foodcont.2011.07.031>
- Chakraborty, K., Chakravarti, A. R., & Bhattacharjee, S. (2022). Bioactive components of peppermint (*Mentha piperita* L.), their pharmacological and ameliorative potential and ethnomedicinal benefits: A review. *Journal of pharmacognosy and phytochemistry*, 11(1), 109-114.
- Chandrasekara, A., & Shahidi, F. (2018). Herbal beverages: Bioactive compounds and their role in disease risk reduction - A review. *Journal of Traditional and Complementary Medicine*, 8(4), 451. <https://doi.org/10.1016/j.jtcme.2017.08.006>
- Chang, M.-Y., Lin, Y.-Y., Chang, Y.-C., Huang, W.-Y., Lin, W.-S., Chen, C.-Y., Huang, S.-L., & Lin, Y.-S. (2020). Effects of Infusion and Storage on Antioxidant Activity and Total Phenolic Content of Black Tea. *Applied Sciences*, 10(8), 2685. <https://doi.org/10.3390/app10082685>
- Chang, T. (2018). Effect of flavor and color on consumer perception and acceptance toward fruit tea flavored beverage with different salt level.
- Chaudhary, N. K., Thakur, S., Budhathoki, S., & Baral, D. (2024). pH profile and acidity analysis of some Nepalese tea brands: Effects of tea type and temperature. *Bibechana*, 21(3), 321-327.

- Chen, L., Liu, F., Yang, Y., Tu, Z., Lin, J., Ye, Y., & Xu, P. (2021). Oxygen-enriched fermentation improves the taste of black tea by reducing the bitter and astringent metabolites. *Food Research International*, 148, 110613. <https://doi.org/10.1016/j.foodres.2021.110613>
- Chen, L., Wang, H., Ye, Y., Wang, Y., & Xu, P. (2023). Structural insight into polyphenol oxidation during black tea fermentation. *Food Chemistry: X*, 17, 100615. <https://doi.org/10.1016/j.fochx.2023.100615>
- Chen, Y. H., Zhang, Y. H., Chen, G. S., Yin, J. F., Chen, J. X., Wang, F., & Xu, Y. Q. (2022). Effects of phenolic acids and quercetin-3-O-rutinoside on the bitterness and astringency of green tea infusion. *Npj Science of Food*, 6(1), 8. <https://doi.org/10.1038/s41538-022-00124-8>
- Cheng, Y., Xue, F., & Yang, Y. (2023). Hot water extraction of antioxidants from tea leaves—Optimization of brewing conditions for preparing antioxidant-rich tea drinks. *Molecules*, 28(7), 3030.
- Cho, K. S., Lim, Y. R., Lee, K., Lee, J., Lee, J. H., & Lee, I. S. (2017). Terpenes from Forests and Human Health. *Toxicological Research*, 33(2), 97. <https://doi.org/10.5487/TR.2017.33.2.097>
- Chong, K. L., & Lim, Y. Y. (2012). Effects of drying on the antioxidant properties of herbal tea from selected *Vitex* species. *Journal of Food Quality*, 35(1), 51–59. <https://doi.org/10.1111/j.1745-4557.2011.00422.x>
- Chukwu, J. E., & Lohdip, A. (2024). Spectroscopic analyses of alkaloids and tannins from the leaves of *Ficus citrifolia*. *Path of Science*, 10(8), 4001-4008.
- Clarke, S., Bosman, G., & Aleixandre-Tudo, J. L. (2023). White wine phenolics: Current methods of analysis. *Journal of the Science of Food and Agriculture*, 103(1), 7-25. <https://doi.org/10.1002/jsfa.12120>

- Cox-Georgian, D., Ramadoss, N., Dona, C., & Basu, C. (2019). Therapeutic and Medicinal Uses of Terpenes. *Medicinal Plants*, 333. https://doi.org/10.1007/978-3-030-31269-5_15
- Da Silva, C. F. B., Cardoso, F. A. R., Casarin, P., Droval, A. A., Fuchs, R. H. B., & Marques, L. L. M. (2024). In vitro evaluation of goldfish (*Stachys byzantina* K. Koch) extracts obtained using natural deep eutectic solvents (NADES). *Industrial Crops and Products*, 208, 117851. <https://doi.org/10.1016/j.indcrop.2023.117851>
- da Silva Magedans, Y. V., Phillips, M. A., & Fett-Neto, A. G. (2021). Production of plant bioactive triterpenoid saponins: from metabolites to genes and back. *Phytochemistry Reviews*, 20(2), 461-482.
- De Cássia dos Santos Navarro da Silva, R., Minim, V. P. R., Simiqueli, A. A., Da Silva Moraes, L. E., Gomide, A. I., & Minim, L. A. (2012). Optimized Descriptive Profile: A rapid methodology for sensory description. *Food Quality and Preference*, 24(1), 190-200. <https://doi.org/10.1016/j.foodqual.2011.10.014>
- De Oliveira, L. D. L., Nascimento, M. O., & Celestino, S. M. C. (2025). Integrating optimized descriptive profile, consumer acceptance, and textual analysis to assess coffee beverage quality: Exploring potassium fertilization in Brazil's Central Plateau. *Food Research International*, 212, 116525. <https://doi.org/10.1016/j.foodres.2025.116525>
- Deng, S., Zhou, X., Dong, H., Xu, Y., Gao, Y., Wang, B., & Liu, X. (2022). Mellow and thick taste of pu-erh ripe tea based on chemical properties by sensory- directed flavor analysis. *Foods*, 11(15), 2285.
- Deo, A. S., Asheela Devi, P. J., Sijisha, K. S., Anusha, R., Mishra, T., Mathew, S., Abraham, K. M., Jagadish, R., & Priya, S. (2023). Comparative studies on the antioxidant, anticancer and anti-inflammatory activities of green tea, orthodox black tea and CTC black tea. *Journal of Food Science and Technology*, 61(7), 1315. <https://doi.org/10.1007/s13197-023-05900-2>

- Dewi, A. O. T. (2025). Uji Aktivitas Antioksidan dan Penetapan Kadar Kafein pada Seduhan Teh Hijau dengan Variasi Waktu Seduh. *Jurnal Ilmiah Farmasi Farmasyifa*, 8(1), 12–19. <https://doi.org/10.29313/jiff.v8i1.3962>
- Dias, M. C., A Pinto, C. G., & S Silva, A. M. (2021). Plant Flavonoids: Chemical Characteristics and Biological Activity. *Molecules*, 26(17), 5377. <https://doi.org/10.3390/molecules26175377>
- Ding, J., Mei, S., Gao, L., Wang, Q., Ma, H., & Chen, X. (2022). Tea processing steps affect chemical compositions, enzyme activities, and antioxidant and anti-inflammatory activities of coffee leaves. *Food Frontiers*, 3(3), 505-516. <https://doi.org/10.1002/fft2.136>
- Dong, H., & Qi, X. (2025). Biosynthesis of triterpenoids in plants: Pathways, regulation, and biological functions. *Current Opinion in Plant Biology*, 85, 102701. <https://doi.org/10.1016/j.pbi.2025.102701>
- Drew, R. A., & Bailey, R. (2018, October). Australian tropical fruits: a source of distinctive flavours. In *II International Symposium on Beverage Crops 1274* (pp. 41-56).
- Ella Nkogo, L. F., Mikala Mouendou, M. S., Dumarçay, S., Edou Engonga, P., & Gérardin, P. (2024). Phytochemical Study, FTIR and GC-MS Characterization and Evaluation of the Antioxidant Activity of *Letestua durissima* Extracts. *Forests*, 15(3), 429. <https://doi.org/10.3390/f15030429>
- Emahi, I., Sakyi, P. O., Bruce-Vanderpuije, P., & Issifu, A. R. (2019). Effectiveness of raw versus activated coconut shells for removing arsenic and mercury from water. *Environ Nat Resour Res*, 9(3), 127-134.
- Fibrianto, K., Bimo, I. A., Sofa, A. M., Putri, A., Amelia, D., Lalilika, O. R., ... & Haq, A. I. (2024). Validations of sensory overall acceptability optimizations on response surface methodology through just-about-right technique for coffee-leaf tea at different brewing methods. *Advances in Food Science, Sustainable Agriculture and Agroindustrial Engineering (AFSSAAE)*, 7(1), 20-28.

- Firmansyah, & Argosubekti, N. (2020, April). A review of heat stress signaling in plants. In *IOP conference series: earth and environmental science* (Vol. 484, No. 1, p. 012041). IOP Publishing.
- Fleming, I., & Williams, D. (2020). Infrared and Raman spectra. In *Spectroscopic methods in organic chemistry* (pp. 85-121). Cham: Springer International Publishing.
- Garg, S. K., Shukla, A., & Choudhury, S. (2019). Polyphenols and flavonoids. In *Nutraceuticals in veterinary medicine* (pp. 187-204). Cham: Springer International Publishing.
- Gaynes, M. N., Osika, K. R., & Christianson, D. W. (2024). Structure and Function of Sabinene Synthase, a Monoterpene Cyclase that Generates a Highly Strained [3.1.0] Bicyclic Product. *Biochemistry*, 63(23), 3147. <https://doi.org/10.1021/acs.biochem.4c00476>
- Giorgini, E., Notarstefano, V., Foligni, R., Carloni, P., & Damiani, E. (2023). First ATR-FTIR Characterization of Black, Green and White Teas (*Camellia sinensis*) from European Tea Gardens: A PCA Analysis to Differentiate Leaves from the In-Cup Infusion. *Foods*, 13(1), 109. <https://doi.org/10.3390/foods13010109>
- Goldberg, E. M., Ryland, D., Aliani, M., & House, J. D. (2016). Interactions between canola meal and flaxseed oil in the diets of White Lohmann hens on fatty acid profile and sensory characteristics of table eggs. *Poultry Science*, 95(8), 1805-1812. <https://doi.org/10.3382/ps/pew025>
- Gómez-Mejía, E., Dias, M. I., Pereira, C., Pires, T. C., Palá-Paúl, J., Rosales-Conrado, N., León-González, M. E., Calhelha, R., & Roriz, C. L. (2025). A biorefinery approach for the simultaneous obtention of essential oils, organic acids and polyphenols from citrus peels: Phytochemical characterization and bioactive potential. *Food Chemistry*, 486, 144641. <https://doi.org/10.1016/j.foodchem.2025.144641>

- Gong, J., Wang, Q., Sirisansaneeyakul, S., & McElhatton, A. (2016). Yunnan Pu-erh Tea. In *Modernization of Traditional Food Processes and Products* (pp. 175-197). Boston, MA: Springer US.
- Gong, Y., Chen, X., & Wu, W. (2024). Application of fourier transform infrared (FTIR) spectroscopy in sample preparation: Material characterization and mechanism investigation. *Advances in Sample Preparation*, 11, 100122. <https://doi.org/10.1016/j.sampre.2024.100122>
- Gori, A., Nascimento, L. B., Ferrini, F., Centritto, M., & Brunetti, C. (2020). Seasonal and diurnal variation in leaf phenolics of three medicinal mediterranean wild species: what is the best harvesting moment to obtain the richest and the most antioxidant extracts?. *Molecules*, 25(4), 956.
- Gulcin, İ., & Alwasel, S. H. (2023). DPPH radical scavenging assay. *Processes*, 11(8), 2248.
- Gupta, M., Torrico, D. D., Hepworth, G., Gras, S. L., Ong, L., Cottrell, J. J., & Dunshea, F. R. (2021). Differences in hedonic responses, facial expressions and self-reported emotions of consumers using commercial yogurts: A cross-cultural study. *Foods*, 10(6), 1237.
- Gurdian, C. E., Torrico, D. D., Li, B., & Prinyawiwatkul, W. (2022). Effects of tasting and ingredient information statement on acceptability, elicited emotions, and willingness to purchase: A case of pita chips containing edible cricket protein. *Foods*, 11(3), 337.
- Haghpanah, M., Hashemipetroudi, S., Arzani, A., & Araniti, F. (2024). Drought Tolerance in Plants: Physiological and Molecular Responses. *Plants*, 13(21), 2962. <https://doi.org/10.3390/plants13212962>
- Handayani, S. U., Sutrisno, D., Amalia, R., & Yulianto, M. E. (2022). Optimization of continuous microwave inactivator for polyphenol oxidase inactivation on green tea processing using response surface methodology. *Rasayan Journal of Chemistry*, 15(2), 798-805.

- Hartanti, D., & Hamad, A. (2023). The effect of brewing time on the antioxidant properties and consumer's preference of green tea and jasmine tea. *Advances in Food Science, Sustainable Agriculture and Agroindustrial Engineering (AFSSAAE)*, 6(2), 106-115.
- Haseem, B. (2026). *The Esoteric Influence of Post-Hoc Sequential Bonferroni Procedures on Parametric and Nonparametric Analyses* (Master's thesis, North Carolina Central University).
- Heinrich, M., Mah, J., & Amirkia, V. (2021). Alkaloids Used as Medicines: Structural Phytochemistry Meets Biodiversity—An Update and Forward Look. *Molecules*, 26(7), 1836. <https://doi.org/10.3390/molecules26071836>
- Herdiana, N., Hidayati, S., Sartika, D., Yuliandari, P., & Zuidar, A. S. (2024). Identification of Bioactive Compounds and Antibacterial Activity of Limeberry (*Triphasia trifolia*) Fruit Ethanol Extract against *Staphylococcus aureus*. *Tropical Journal of Natural Product Research*, 8(1).
- Herdiana, N., Sagala, Y. M., Rizal, S., & Kustyawati, M. E. (2025). Extraction and Activity Test of Antibacterial Compounds from Limberry Leaves (*Triphasia Trifolia*) Against *Vibrio* Sp. *Journal of Multidisciplinary Applied Natural Science*, 5(1), 243-253
- Hirono, H., Yamashita, S., & Hirono, Y. (2024). Influence of steaming duration, chlorophyll-a and-b content and ratio, and pH on the color of green tea processed from multiple tea (*Camellia sinensis* L.) cultivars. *Journal of the Science of Food and Agriculture*, 104(15), 9410-9422.
- Hong, C., Jeong, B., Park, H. J., Chung, J. Y., Lee, J. E., Kim, J., Shin, Y. C., & So, I. (2020). TRP Channels as Emerging Therapeutic Targets for Neurodegenerative Diseases. *Frontiers in Physiology*, 11, 521830. <https://doi.org/10.3389/fphys.2020.00238>
- Hopfinger, J. A., Kumamoto, J., & Scora, R. W. (1979). DIURNAL VARIATION IN THE ESSENTIAL OILS OF VALENCIA ORANGE LEAVES. *American Journal of Botany*, 66(2), 111-115. <https://doi.org/10.1002/j.1537-2197.1979.tb06203.x>

- Hosry, L. E., Elias, V., Chamoun, V., Halawi, M., Cayot, P., Nehme, A., & Bou-Maroun, E. (2025). Maillard Reaction: Mechanism, Influencing Parameters, Advantages, Disadvantages, and Food Industrial Applications: A Review. *Foods*, 14(11), 1881. <https://doi.org/10.3390/foods14111881>
- Huda, H. S. A., Majid, N. B. A., Chen, Y., Adnan, M., Ashraf, S. A., Roszko, M., ... & Sasidharan, S. (2024). Exploring the ancient roots and modern global brews of tea and herbal beverages: A comprehensive review of origins, types, health benefits, market dynamics, and future trends. *Food Science & Nutrition*, 12(10), 6938-6955.
- Jaywant, S. A., Singh, H., & Arif, K. M. (2022). Sensors and instruments for brix measurement: A review. *Sensors*, 22(6), 2290.
- Jeszka-Skowron, M., Zgoła-Grześkowiak, A., & Grześkowiak, T. (2021). Phenolic compounds in coffee and tea beverages. In *Analytical methods in the determination of bioactive compounds and elements in food* (pp. 31-81). Cham: Springer International Publishing.
- Johnson, J. B., Mani, J. S., & Naiker, M. (2022). Development and validation of a 96-well microplate assay for the measurement of total phenolic content in ginger extracts. *Food Analytical Methods*, 15(2), 413-420.
- Jiang, X., Lei, X., Li, C., Wang, L., Wang, X., & Jiang, H. (2025). Increased Oxygen Treatment in the Fermentation Process Improves the Taste and Liquor Color Qualities of Black Tea. *Foods*, 14(15), 2736.
- Jin, Y., Zhao, J., Kim, E. M., Kim, K. H., Kang, S., Lee, H., & Lee, J. (2018). Comprehensive Investigation of the Effects of Brewing Conditions in Sample Preparation of Green Tea Infusions. *Molecules*, 24(9), 1735. <https://doi.org/10.3390/molecules24091735>
- Karyadi, J. N. W., Imaniar, D. I., Akbar, M. A., Marfu'ah, S., Ayuni, D., & Bintoro, N. (2024). The effect of various drying methods on the quality of rose (*Rosa damascena*) tea. *AgriTECH*, 44, 1-8.

- Kaya, D. A., Arslan, M., & Rusu, L. C. (2013). Effects of harvesting hour on essential oil content and composition of *Thymus vulgaris*. *Farmacia*, 61(6), 1194-1203.
- Khairina, A. (2023). Profil Sensori Minuman Sari Buah Jeruk dengan Metode Quantitative Descriptive Analysis (QDA) dan Optimized Descriptive Profile (ODP) di PT XYZ.
- Khaliq, N., Aslam, S., Bibi, S., Ashraf, H., Khaliq, J., & Noor, S. (2025). Estimation of Phenolic Content in Black and Green Tea. *Zenodo (CERN European Organization for Nuclear Research)*, 3(10).
<https://doi.org/10.5281/zenodo.17851596>
- Khan, S. A., Khan, S. B., Khan, L. U., Farooq, A., Akhtar, K., & Asiri, A. M. (2018). Fourier transform infrared spectroscopy: fundamentals and application in functional groups and nanomaterials characterization. In *Handbook of materials characterization* (pp. 317-344). Cham: Springer International Publishing.
- Khan, N., & Mukhtar, H. (2018). Tea Polyphenols in Promotion of Human Health. *Nutrients*, 11(1), 39.
<https://doi.org/10.3390/nu11010039>
- Kim, M. J., Kim, S. S., & Lee, S. I. (2012). Quality Characteristics and Content of Polysaccharides in Green Tea Fermented by *Monascus pilosus*. *Preventive Nutrition and Food Science*, 17(4), 293.
<https://doi.org/10.3746/pnf.2012.17.4.293>
- Kirichenko, N., Augustin, S., Barham, E., Cech, T., Drenkhan, R., Morales-Rodriguez, C., ... & Witzell, J. (2017). Damage to leaves of broadleaf woody plants. In *Field guide for the identification of damage on woody sentinel plants* (pp. 37-69). Wallingford UK: CABI.
- Klepacka, J. (2022). Tea infusions as a source of phenolic compounds in the human diet. *Applied Sciences*, 12(9), 4227.

- Koczoń, P., Hołaj-Krzak, J. T., Palani, B. K., Bolewski, T., Dąbrowski, J., Bartyzel, B. J., & Gruczyńska-Sękowska, E. (2023). The analytical possibilities of FT-IR spectroscopy powered by vibrating molecules. *International Journal of Molecular Sciences*, 24(2), 1013.
- Kong, W., Wang, J., Zhang, F., Zhao, J., Ye, S., Wu, J., Pan, G., Feng, J., Chu, Q., Lin, H., Deng, T., Lin, Z., & Hao, Z. (2026). The shaping of oolong tea: Not only shapes the appearance but also influences the flavor. *LWT*, 242, 119074. <https://doi.org/10.1016/j.lwt.2026.119074>
- Kowalska, J., Marzec, A., Domian, E., Galus, S., Ciurzyńska, A., Brzezińska, R., & Kowalska, H. (2021). Influence of Tea Brewing Parameters on the Antioxidant Potential of Infusions and Extracts Depending on the Degree of Processing of the Leaves of *Camellia sinensis*. *Molecules*, 26(16). <https://doi.org/10.3390/molecules26164773>
- Krysa, M., Szymańska-Chargot, M., & Zdunek, A. (2022). FT-IR and FT-Raman fingerprints of flavonoids—A review. *Food chemistry*, 393, 133430.
- Kumar, R., Bisen, J. S., & Bera, B. (2014). The diurnal leaf water potential patterns of pruned and un-pruned tea clones in Darjeeling Hill. *Journal of Plantation Crops*, 42(1).
- Lamuela-Raventós, R. M. (2018). Folin–Ciocalteu method for the measurement of total phenolic content and antioxidant capacity. *Measurement of antioxidant activity & capacity: recent trends and applications*, 107-115.
- Lembong, E., Nurhasanah, S., Subroto, E., Maharani, D., & Fadhillah, A. N. (2024). The Influence of Temperature and Drying Time on The Physical and Chemical Characteristics of Cocoa Pod Tea *Theobroma (Cacao, L.)*. *Journal of Applied Science, Engineering, Technology, and Education*, 6(2), 96-104.
- Li, L., Lu, J., Pang, H., Zhang, Z., Yang, J., Li, P., ... & Fan, M. (2023). New insight into scale inhibition during tea brewing: Ca²⁺/Mg²⁺ complexing and alkalinity consumption. *Journal of Environmental Sciences*, 124, 901-914.

- Liu, Y., Wu, X., Tahara, Y., Ikezaki, H., & Toko, K. (2019). A Quantitative Method for Acesulfame K Using the Taste Sensor. *Sensors*, 20(2), 400. <https://doi.org/10.3390/s20020400>
- Long, T., Hu, R., Cheng, Z., Xu, C., Hu, Q., Liu, Q., ... & Long, C. (2023). Ethnobotanical study on herbal tea drinks in Guangxi, China. *Journal of Ethnobiology and Ethnomedicine*, 19(1), 10.
- Long, X., Ranjitkar, S., Waldstein, A., Wu, H., Li, Q., & Geng, Y. (2024). Preliminary exploration of herbal tea products based on traditional knowledge and hypotheses concerning herbal tea selection: A case study in Southwest Guizhou, China. *Journal of Ethnobiology and Ethnomedicine*, 20, 1. <https://doi.org/10.1186/s13002-023-00645-w>
- Lu, X., Lin, Y., Tuo, Y., Liu, L., Du, X., Zhu, Q., ... & Lin, J. (2023). Optimizing processing techniques of oolong tea balancing between high retention of catechins and sensory quality. *Foods*, 12(23), 4334.
- Lunkes, Letícia Bello Flores, and Lina Naomi Hashizume. "Evaluation of the PH and Titratable Acidity of Teas Commercially Available in Brazilian Market." *RGO - Revista Gaúcha de Odontologia*, vol. 62, no. 1, Mar. 2014, pp. 59–64, <https://doi.org/10.1590/1981-8637201400010000092623>.
- Lv, H., Feng, X., Song, H., Ma, S., Hao, Z., Hu, H., Yang, Y., Pan, Y., Zhou, S., Fan, F., Gong, S., Chu, Q., & Chen, P. (2023). Tea storage: A not thoroughly recognized and precisely designed process. *Trends in Food Science & Technology*, 140, 104172. <https://doi.org/10.1016/j.tifs.2023.104172>
- Madkour, L. H. (2019). Function of reactive oxygen species (ROS) inside the living organisms and sources of oxidants. *Pharm. Sci. Anal. Res. J*, 2, 180023.
- Mantiniotou, M., Athanasiadis, V., Kalompatsios, D., Bozinou, E., & Lalas, S. I. (2025). Therapeutic capabilities of triterpenes and triterpenoids in immune and inflammatory processes: A review. *Compounds*, 5(1), 2.

- Martemucci, G., Costagliola, C., Mariano, M., D'andrea, L., Napolitano, P., & D'Alessandro, A. G. (2022). Free radical properties, source and targets, antioxidant consumption and health. *Oxygen*, 2(2), 48-78.
- Marques, C., Correia, E., Dinis, L. T., & Vilela, A. (2022). An overview of sensory characterization techniques: From classical descriptive analysis to the emergence of novel profiling methods. *Foods*, 11(3), 255.
- Marques, M. P., Alves, V. D., & Coelho, I. M. (2016). Concentration of tea extracts by osmotic evaporation: optimisation of process parameters and effect on antioxidant activity. *Membranes*, 7(1), 1.
- Mendonça, J. D., Guimarães, R. D., Zorretto-Pinheiro, V. A., Fernandes, C. D., Marcelino, G., Bogo, D., Freitas, K. D., Hiane, P. A., Silva, E., Vilela, M. L., & Nascimento, V. A. (2021). Natural Antioxidant Evaluation: A Review of Detection Methods. *Molecules*, 27(11), 3563. <https://doi.org/10.3390/molecules27113563>
- Minh, N. P., Hoa, T. K., Sang, V. T., & Na, L. T. S. (2019). Effect of blanching and drying to production of dried herbal tea from *Pouzolzia zeylanica*. *Journal of Pharmaceutical Sciences and Research*, 11(4), 1437-1440.
- Mokapane, F. M., Fawole, O. A., & Opara, U. L. (2017, September). Strategies to preserve quality and extend shelf life of dried fruits and vegetables: A review. In *VII International Conference on Managing Quality in Chains (MQUIC2017) and II International Symposium on Ornamentals in 1201* (pp. 99-106).
- Mukhamatdinov, I. I. (2023). 2.3 FTIR-Spectroscopy. *Catalytic In-Situ Upgrading of Heavy and Extra-Heavy Crude Oils*, 79-113.

- Munteanu, I. G., & Apetrei, C. (2021). Analytical methods used in determining antioxidant activity: A review. *International journal of molecular sciences*, 22(7), 3380.
- Muruges, C. S., Manoj, J. B., Haware, D. J., Ravi, R., & Subramanian, R. (2017). Influence of water quality on nutritional and sensory characteristics of green tea infusion. *Journal of Food Process Engineering*, 40(5), e12532. <https://doi.org/10.1111/jfpe.12532>
- Narra, F., Piragine, E., Benedetti, G., Ceccanti, C., Florio, M., Spezzini, J., Troisi, F., Giovannoni, R., Martelli, A., & Guidi, L. (2024). Impact of thermal processing on polyphenols, carotenoids, glucosinolates, and ascorbic acid in fruit and vegetables and their cardiovascular benefits. *Comprehensive Reviews in Food Science and Food Safety*, 23(6), e13426. <https://doi.org/10.1111/1541-4337.13426>
- Nguyen, Q. V., & Chuyen, H. V. (2020). Processing of herbal tea from roselle (*Hibiscus sabdariffa* L.): Effects of drying temperature and brewing conditions on total soluble solid, phenolic content, antioxidant capacity and sensory quality. *Beverages*, 6(1), 2.
- Nikoo, M., Regenstein, J. M., & Ahmadi Gavlighi, H. (2018). Antioxidant and antimicrobial activities of (-)-epigallocatechin-3-gallate (EGCG) and its potential to preserve the quality and safety of foods. *Comprehensive Reviews in Food Science and Food Safety*, 17(3), 732-753.
- Nowak, D., Kłębukowska, L., & Gośliński, M. (2025). Antioxidant properties and antibacterial activity of selected herbal teas. *Scientific Reports*, 15(1), 41438. <https://doi.org/10.1038/s41598-025-26960-8>
- Nugraheni, Z. V., Gunawan, W. D., Laili, H. N., Putro, H. S., & Wahyudi, A. (2021, June). Analysis of antioxidant activity of black tea extract (*Camellia sinensis* L.) and the effect on organoleptic properties of cassava getuk. In *AIP Conference Proceedings* (Vol. 2349, No. 1, p. 020077). AIP Publishing LLC.

- Oghayon, A., & Agosto, N. J. (2024). Development of Herbal Tea Formulations from *Citrus microcarpa* (Calamansi), *Mangifera indica* (Mango), and *Zingiber officinale* (Ginger) Peels and the Evaluation of the Antioxidant and Sensory Profiles of their Infusions.
- Okafor, G. I., & Ogbobe, N. M. (2015). Production and quality evaluation of green and black herbal teas from *Moringa oleifera* leaf. *Journal of food resource science*, 4(3), 62-72.
- Oladeji, O. A., Karigidi, K. O., & Ogwu, M. C. (2024). Indices for monitoring and measuring the physicochemical properties of safe and quality food. In *Food safety and quality in the global south* (pp. 123-150). Singapore: Springer Nature Singapore.
- Ozogul, Y., Ucar, Y., Tadesse, E. E., Rathod, N., Kulawik, P., Trif, M., Esatbeyoglu, T., & Ozogul, F. (2025). Tannins for food preservation and human health: A review of current knowledge. *Applied Food Research*, 5(1), 100738. <https://doi.org/10.1016/j.afres.2025.100738>
- Ozougwu, J. C. (2016). The role of reactive oxygen species and antioxidants in oxidative stress. *Int. J. Res*, 1(8), 1-8.
- Parveen, A., Qin, C. Y., Zhou, F., Lai, G., Long, P., Zhu, M., ... & Zhang, L. (2023). The chemistry, sensory properties and health benefits of aroma compounds of black tea produced by *Camellia sinensis* and *Camellia assamica*. *Horticulturae*, 9(12), 1253.
- Pasieczna-Patkowska, S., Cichy, M., & Flieger, J. (2024). Application of Fourier Transform Infrared (FTIR) Spectroscopy in Characterization of Green Synthesized Nanoparticles. *Molecules*, 30(3), 684. <https://doi.org/10.3390/molecules30030684>
- Patil, M. J., & Godbole, S. A. (2024). Phytochemical Screening and Quantitative Analysis of Total Alkaloid, Phenolic, Flavonoid and Tannin Content Using Spectrophotometric Assays in *Trichosanthes bracteata* Lam. *The Journal of Plant Science Research*, 40(2), 317-325.

- Pavia, D. (2015). Introduction to spectroscopy/Donald L. Pavia, Gary M. Lampman, George S. Kriz, and James R. Vyvyan. *SERBIULA (sistema Librum 2.0)*.
- Pehlivan, F. E. (2017). Vitamin C: An antioxidant agent. *Vitamin C*, 2(2), 23-35.
- Pei, D., He, W., Dong, S., Wang, M., Xu, Y., & Wang, D. (2025). Dynamic changes in Pu-erh tea during pile fermentation: Comparing novel plie fermentation to traditional method. *Applied Food Research*, 5(2), 101332. <https://doi.org/10.1016/j.afres.2025.101332>
- Pérez-Burillo, S., Giménez, R., Rufián-Henares, J., & Pastoriza, S. (2018). Effect of brewing time and temperature on antioxidant capacity and phenols of white tea: Relationship with sensory properties. *Food Chemistry*, 248, 111-118. <https://doi.org/10.1016/j.foodchem.2017.12.056>
- Pérez, M., Dominguez-López, I., & Lamuela-Raventós, R. M. (2023). The Chemistry Behind the Folin–Ciocalteu Method for the Estimation of (Poly)phenol Content in Food: Total Phenolic Intake in a Mediterranean Dietary Pattern. *Journal of Agricultural and Food Chemistry*, 71(46), 17543. <https://doi.org/10.1021/acs.jafc.3c04022>
- Peristiowati, Y., Kusnul, Z., & Hariyono. (2025). *The effect of drying process temperature and milling duration on total flavonoid levels in dry green tea (Camellia sinensis) powder*. International Journal of Innovative Research and Scientific Studies, 8(2) 2025, Pages: 560-568. <http://www.ijirss.com/>
- Pires, M. A., Pastrana, L. M., Fuciños, P., Abreu, C. S., & Oliveira, S. M. (2020). Sensorial perception of astringency: Oral mechanisms and current analysis methods. *Foods*, 9(8), 1124.
- Piyasena, K. N. P., & Hettiarachchi, L. S. K. (2025). Identification of key flavor compounds and color substances in tea: a review. *Discover Food*, 5(1), 250.

- Poswal, F. S., Russell, G., Mackonochie, M., MacLennan, E., Adukwu, E. C., & Rolfe, V. (2019). Herbal teas and their health benefits: a scoping review. *Plant Foods for Human Nutrition*, 74(3), 266-276.
- Pou, K. J. (2016). Fermentation: The key step in the processing of black tea. *Journal of Biosystems Engineering*, 41(2), 85-92.
- Qin, X., Wang, W., Zheng, Y., Wang, X., Chen, Z., Zhao, J., & Li, S. (2025). Effects of non-thermal processing techniques on cereal bran: Focus on changes in bran structure and polyphenol release. *Food Chemistry: X*, 29, 102875. <https://doi.org/10.1016/j.fochx.2025.102875>
- Radha, S. (2022). Plants used in tribal medicine due to culture and tradition factors. *International Journal of Pharmacognosy and Chemistry*, 113-122.
- Raghunath, S., Budaraju, S., Taghi Gharibzahedi, S. M., Koubaa, M., Roohinejad, S., & Mallikarjunan, K. (2023). Processing Technologies for the Extraction of Value-Added Bioactive Compounds from Tea. *Food Engineering Reviews*, 15(2), 276. <https://doi.org/10.1007/s12393-023-09338-2>
- Rahman, M., Jahan, I. A., Ahmed, S., Ahmed, K. S., Roy, M., Zzaman, W., & Ahmad, I. (2021). Bioactive compounds and antioxidant activity of black and green tea available in Bangladesh. *Food Res*, 5(3), 107-111.
- Rashwan, A. K., El-Shiekh, R. A., Bassiony, A., Abdelshafy, A. M., Osman, A. I., Younis, H. A., Zhou, F., Gherbawy, Y. A., El-Seedi, H. R., Shi, J., & Chen, W. (2025). Recent advances in chemical characterization, emerging applications, and biological activities of tea polysaccharides and their conjugates from leaves and flowers: A review. *International Journal of Biological Macromolecules*, 328, 147540. <https://doi.org/10.1016/j.ijbiomac.2025.147540>

- Ratnawaty, G. J., Indrawati, R., Wahdaniah, W., & Rakhman, K. A. (2025). AN OVERVIEW OF ADVANCED 2, 2-Diphenyl-1-picrylhydrazyl (DPPH) ANALYSIS TECHNIQUES. *Walisongo Journal of Chemistry*, 8(2), 138-152.
- Rinaldi, A., & Moio, L. (2020). Salivary protein-tannin interaction: the binding behind astringency. In *Chemistry and Biochemistry of Winemaking, Wine Stabilization and Aging*. IntechOpen.
- Rossetti, D., Bongaerts, J., Wantling, E., Stokes, J., & Williamson, A. (2009). Astringency of tea catechins: More than an oral lubrication tactile percept. *Food Hydrocolloids*, 23(7), 1984-1992. <https://doi.org/10.1016/j.foodhyd.2009.03.001>
- Rovaldi, E., Di Donato, V., Paolino, G., Bruno, M., Medei, A., Nisticò, S. P., ... & Cantisani, C. (2025). Epigallocatechin-gallate (EGCG): an essential molecule for human health and well-being. *International Journal of Molecular Sciences*, 26(18), 9253.
- Rozentsvet, O., Kosobryukhov, A., Zakhozhiy, I., Tabalenkova, G., Nesterov, V., & Bogdanova, E. (2017). Photosynthetic parameters and redox homeostasis of *Artemisia santonica* L. Under conditions of Elton region. *Plant Physiology and Biochemistry*, 118, 385-393. <https://doi.org/10.1016/j.plaphy.2017.07.005>
- Ruiz-Capillas, C., Herrero, A. M., Pintado, T., & Delgado-Pando, G. (2021). Sensory analysis and consumer research in new meat products development. *Foods*, 10(2), 429.
- Sachdev, S., Ansari, S. A., Ansari, M. I., Fujita, M., & Hasanuzzaman, M. (2021). Abiotic Stress and Reactive Oxygen Species: Generation, Signaling, and Defense Mechanisms. *Antioxidants*, 10(2), 277. <https://doi.org/10.3390/antiox10020277>
- Sadeer, N. B., Montesano, D., Albrizio, S., Zengin, G., & Mahomoodally, M. F. (2020). The Versatility of Antioxidant Assays in Food Science and Safety—Chemistry, Applications, Strengths, and Limitations. *Antioxidants*, 9(8), 709. <https://doi.org/10.3390/antiox9080709>

- Safdar, N., Sarfaraz, A., Kazmi, Z., & Yasmin, A. (2016). Ten different brewing methods of green tea: comparative antioxidant study. *J. Appl. Biol. Biotechnol*, 4(3), 033-040.
- Sahakyan, N., Bartoszek, A., Jacob, C., Petrosyan, M., & Trchounian, A. (2020). Bioavailability of tannins and other oligomeric polyphenols: a still to be studied phenomenon. *Current Pharmacology Reports*, 6(3), 131-136.
- Salamah, N., Astuti, S. F. W., Rahma, N. A. A., & Guntarti, A. (2024). ANALYSIS OF TOTAL FLAVONOID CONTENT AND ANTIOXIDANT ACTIVITY OF GREEN TEA (*Camellia sinensis*) WITH VARIATIONS IN TYPE AND BREWING. In *Jurnal Farmasi Sains dan Praktis*.
- Santos, R. P. D., Trevisan, M. T. S., Silveira, E. R., Pessoa, O. D. L., & Melo, V. M. M. (2008). Chemical composition and biological activity of leaves and fruits of *Triphasia trifolia*. *Química Nova*, 31, 53-58.
- Şavşatlı, Y., Özcan, A., Çatal, M. İ., Yurteri, E., & Seyis, F. (2018). The effect of pruning age and diurnal variability on the antioxidant activity of tea (*Camellia sinensis* (L.) O. Kuntz) leaves in organic tea farming. *Turkish Journal of Agriculture: Food Science and Technology*, 6(2), 163-168
- Shahidi, F., & Samarasinghe, A. (2025). How to assess antioxidant activity? Advances, limitations, and applications of in vitro, in vivo, and ex vivo approaches. *Food Production, Processing and Nutrition*, 7(1), 50. <https://doi.org/10.1186/s43014-025-00326-z>
- Shen, S., Wu, H., Li, T., Sun, H., Wang, Y., & Ning, J. (2023). Formation of aroma characteristics driven by volatile components during long-term storage of An tea. *Food Chemistry*, 411, 135487. <https://doi.org/10.1016/j.foodchem.2023.135487>
- Shrestha, Y. K., & Shrestha, S. K. (2023). Fundamentals of colorimetry. In *Advances in Colorimetry*. IntechOpen.

- Siddique, I. (2024). Exploring functional groups and molecular structures: a comprehensive analysis using FTIR spectroscopy. *Chemistry Research Journal*, 9(2), 70-76.
- Šilarová, P., Česlová, L., & Meloun, M. (2017). Fast gradient HPLC/MS separation of phenolics in green tea to monitor their degradation. *Food Chemistry*, 237, 471-480.
<https://doi.org/10.1016/j.foodchem.2017.05.133>
- Silva, J., Lima, F. E., Souza, C., Moreira-Leite, B., & Sousa, P. (2025). The influence of food colors on emotional perception and consumer acceptance: A sensory and emotional profiling approach in gastronomy. *Foods*, 14(22), 3818.
- Simiqueli, A. A., Minim, V. P. R., dos Santos Navarro, R. D. C., da Silva, A. N., & Minim, L. A. (2015). How many assessors are necessary for the Optimized Descriptive Profile when associated with training?. *Food Quality and Preference*, 44, 62-69.
- Smith, B. C. (2018). *Infrared spectral interpretation: a systematic approach*. CRC press.
- Stone, H., Bleibaum, R. N., & Thomas, H. A. (2020). *Sensory evaluation practices*. Academic press.
- Surendran, S., Qassadi, F., Surendran, G., Lilley, D., & Heinrich, M. (2021). Myrcene—What Are the Potential Health Benefits of This Flavouring and Aroma Agent? *Frontiers in Nutrition*, 8, 699666.
<https://doi.org/10.3389/fnut.2021.699666>
- Sürücü, C. G., & Artık, N. (2022). Effect of different brewing methods on some physicochemical properties of green tea (*Camellia sinensis*). *Turkish Journal of Agriculture-Food Science and Technology*, 10(4), 693-701.
- Theanphong, O., & Mingvanish, W. (2018). Antimicrobial activity from leaves and stems of *Triphasia trifolia* (Burm. F.) P. Wilson. *Interprofessional Journal of Health Sciences*, 16(1), 31-38.
- Theppakorn, T. (2015). Chemical constituents of Oolong tea produced in Thailand and their correlation with infusion colour. *Maejo International Journal of Science & Technology*, 9(3).

- Tran, T. T. P., & Tran, T. H. G. (2024, April). Research and development of herbal tea product with mental stability functions and studying factors affecting customers' decision to buy herbal tea products. In *2024 International Conference on Connected Innovation and Technology (ICCITX)* (pp. 1-6). IEEE.
- Tumilaar, S. G., Hardianto, A., Dohi, H., & Kurnia, D. (2024). A comprehensive review of free radicals, oxidative stress, and antioxidants: Overview, clinical applications, global perspectives, future directions, and mechanisms of antioxidant activity of flavonoid compounds. *Journal of Chemistry*, 2024(1), 5594386.
- Vasić, D., Katanić Stanković, J. S., Urošević, T., Kozarski, M., Naumovski, N., Khan, H., & Popović-Djordjević, J. (2023). Insight into Bioactive Compounds, Antioxidant and Anti-Diabetic Properties of Rosehip (*Rosa canina* L.)-Based Tisanes with Addition of Hibiscus Flowers (*Hibiscus sabdariffa* L.) and Saffron (*Crocus sativus* L.). *Beverages*, 10(1). <https://doi.org/10.3390/beverages10010001>
- Vinci, G., D'Ascenzo, F., Maddaloni, L., Prencipe, S. A., & Tiradritti, M. (2022). The influence of green and black tea infusion parameters on total polyphenol content and antioxidant activity by ABTS and DPPH assays. *Beverages*, 8(2), 18.
- Vora, J. D., & Srinivasan, P. (2016, September). *An insight into organoleptic analysis of a novel product developed from lotus stem*. International Journal of Food Science and Nutrition.
- Vuolo, M. M., Lima, V. S., & Junior, M. R. M. (2019). Phenolic compounds: Structure, classification, and antioxidant power. In *Bioactive compounds* (pp. 33-50). Woodhead Publishing.
- Wagner, M. R., & Kleiner, M. (2025). How thoughtful experimental design can empower biologists in the omics era. *Nature Communications*, 16, 7263. <https://doi.org/10.1038/s41467-025-62616-x>
- Wang, Y. (2026). The Effects of Processing on Tea Color. In *Tea Chemistry and Health Benefits: Flavour and Processing Dynamics* (pp. 45-50). Cham: Springer Nature Switzerland.

- Wang, L., Zhang, H., Xie, M., Wan, J., Li, J., Yang, S., Li, Y., Zhang, Q., Liu, Z., & Xiong, Y. (2023). Optimization of Brewing Process Vine Tea and Flavor Analysis of Different Brewing Processes. *Journal of Food Biochemistry*, 2024(1), 8858457. <https://doi.org/10.1155/2024/8858457>
- Wang, W., Le, T., Wang, W., Yu, L., Yang, L., & Jiang, H. (2023). Effects of key components on the antioxidant activity of black tea. *Foods*, 12(16), 3134.
- Wang, X., & Zhang, L. (2024). Chamomile Tea: An In-Depth Analysis of Its Bioactive Compounds, Therapeutic Applications, and Historical Usage. *Medicinal Plant Research*, 14.
- World Health Organization. (2022). *Guidelines for drinking-water quality: incorporating the first and second addenda*. World Health Organization.
- Widowati, W., Wargasetia, T. L., Zakaria, T. M., Marthania, M., Akbar RATPP, G. M., HALIM, N., & SANTIADI, S. (2022). Antioxidant activity of TEMON (*Clitoria ternatea* and *Citrus sp.*) as an infused herbal tea. *Majalah Obat Tradisional*, 27(1), 32.
- Woodson, R. E., Schery, R. W., Porter, D. M., & Elias, T. S. (1979). Flora of Panama. Part VI. Family 89. Rutaceae. *Annals of the Missouri Botanical Garden*, 66(2), 123-164.
- Wu, M. C., Liou, B. K., Chen, Y. S., Lee, S. C., Xie, J. J., Jaw, Y. M., & Liu, S. L. (2022). Understanding Young Taiwanese Consumers' Acceptance, Sensory Profile, and Drivers of Liking for GABA Oolong Tea Beverages with Cold Infusions. *Foods*, 11(19), 2989.
- Xiao, Z., Ma, S., Niu, Y., Chen, F., & Yu, D. (2016). Characterization of odour-active compounds of sweet orange essential oils of different regions by gas chromatography-mass spectrometry, gas chromatography-olfactometry and their correlation with sensory attributes. *Flavour and Fragrance Journal*, 31(1), 41-50.

- Xu, J., Wei, Y., Li, F., Weng, X., & Wei, X. (2022). Regulation of fungal community and the quality formation and safety control of Pu-erh tea. *Comprehensive Reviews in Food Science and Food Safety*, 21(6), 4546-4572.
- Xu, Y., Zhang, Y., Chen, J., Wang, F., Du, Q., & Yin, J. (2018). Quantitative analyses of the bitterness and astringency of catechins from green tea. *Food Chemistry*, 258, 16-24. <https://doi.org/10.1016/j.foodchem.2018.03.042>
- Yang, J., & Lee, J. (2018). Korean consumers' acceptability of commercial food products and usage of the 9-point hedonic scale. *Journal of Sensory Studies*, 33(6), e12467.
- Yang, Z., Baldermann, S., & Watanabe, N. (2013). Recent studies of the volatile compounds in tea. *Food Research International*, 53(2), 585-599. <https://doi.org/10.1016/j.foodres.2013.02.011>
- Zaiter, A., Becker, L., Karam, M. C., & Dicko, A. (2016). Effect of particle size on antioxidant activity and catechin content of green tea powders. *Journal of food science and technology*, 53(4), 2025-2032.
- Zaynab, M., Fatima, M., Abbas, S., Sharif, Y., Umair, M., Zafar, M. H., & Bahadar, K. (2018). Role of secondary metabolites in plant defense against pathogens. *Microbial pathogenesis*, 124, 198-202.
- Zeng, L., Watanabe, N., & Yang, Z. (2019). Understanding the biosyntheses and stress response mechanisms of aroma compounds in tea (*Camellia sinensis*) to safely and effectively improve tea aroma. *Critical reviews in food science and nutrition*, 59(14), 2321-2334.
- Zhang, J., Yang, R., Chen, R., Peng, Y., Wen, X., & Gao, L. (2018). Accumulation of Heavy Metals in Tea Leaves and Potential Health Risk Assessment: A Case Study from Puan County, Guizhou Province, China. *International Journal of Environmental Research and Public Health*, 15(1), 133. <https://doi.org/10.3390/ijerph15010133>

- Zhang, Q., Jiang, Q., Sa, K., Liang, J., Sun, D., Li, H., & Chen, L. (2023). Research progress of plant-derived natural alkaloids in central nervous system diseases. *Phytotherapy Research*, 37(11), 4885-4907.
- Zhang, S. (2023). Recent advances of polyphenol oxidases in plants. *Molecules*, 28(5), 2158.
- Zhao, X., Yu, P., Zhong, N., Huang, H., & Zheng, H. (2024). Impact of storage temperature on green tea quality: Insights from sensory analysis and chemical composition. *Beverages*, 10(2), 35.
- Zheng, Q., Li, W., & Gao, X. (2021). The effect of storage time on tea Polyphenols, catechin compounds, total flavones and the biological activity of Ya'an Tibetan tea (*Camellia sinensis*). *Journal of Food Processing and Preservation*, 45(12), e16004.
- Zheng, X. Q., Li, Q. S., Xiang, L. P., & Liang, Y. R. (2016). Recent Advances in Volatiles of Teas. *Molecules*, 21(3), 338. <https://doi.org/10.3390/molecules21030338>
- Zhu, J., Wang, J., Yuan, H., Ouyang, W., Li, J., Hua, J., & Jiang, Y. (2022). Effects of Fermentation Temperature and Time on the Color Attributes and Tea Pigments of Yunnan Congou Black Tea. *Foods*, 11(13), 1845. <https://doi.org/10.3390/foods11131845>