

DAFTAR PUSTAKA

- Aldrich, S. 2020. *IR Spectrum Table and Chart IR Spectrum Table by Frequency Range*. <https://www.sigmaaldrich.com/MY/en/technical-documents/technical-article/analytical-chemistry/photometry-and-reflectometry/ir-spectrum-table>. Diakses tanggal 24 Agustus 2020.
- Andrade, F.I.D., Guedes, M.I.F., Vieira, Í.G.P, Mendes, F.N.P., Rodrigues, P.A.S., Maia, C.S.C., Ávila, M.M.M, dan Ribeiro, L.D.M. 2014. Determination of Synthetic Food Dyes in Commercial Soft Drinks by TLC and Ion-Pair HPLC. *Food Chemistry* 157: 193–98.
- Anguebes, F., Pat, L., Ali, B., Guerrero, A, Córdova, A.V., Abatal, M., dan Garduza, J.P. 2016. Application of Multivariable Analysis and FTIR-ATR Spectroscopy to The Prediction of Properties in Campeche Honey. *Journal of Analytical Methods in Chemistry* 14: 5427526
- Anjos, O., Campos, M.G., Ruiz, P.C., dan Antunes, P. 2015. Application of FTIR-ATR Spectroscopy to The Quantification of Sugar in Honey. *Food Chemistry* 169 : 218–23.
- Barshan, E., Ghodsi, A., Azimifar, Z., dan Jahromi, M.Z. 2011. Supervised Principal Component Analysis: Visualization, Classification and Regression on Subspaces and Submanifolds. *Pattern Recognition* 44: 1357–71.
- Bergana, M.M., Adams, K.M., Harnly J., Moore J.C., dan Xie, Z. 2019. Non-targeted Detection of Milk Powder Adulteration by ¹H NMR Spectroscopy and Conformity Index Analysis. *Journal of Food Composition and Analysis* 78 : 49–58.
- Bikwanto, R. 2019. *Crime Rate Classification Menggunakan Regresi Model*. <https://rpubs.com/edukaskill/RegressionModel>. Diakses pada tanggal 12 Januari 2022.
- Chai, T., dan Draxler, R.R. 2014. Root mean square error (RMSE) or mean absolute error (MAE)? Arguments against avoiding RMSE in the literature. *Geoscientific Model Development* 7 : 1247–50.
- Coimbra, T.P., Bathazar, C.F., Guimarães, J.T., Coutinho, N.M., Pimentel, T.C., Neto, R.P.C., Esmerino, E.A., *et al.* 2020. Detection of Formaldehyde in Raw Milk by Time Domain Nuclear Magnetic Resonance and Chemometrics. *Food Control* 110 : 107006.
- Filho, C., Paulo, A.D., Cobuccio, L., Mainali, D., Rault, M., dan Cavin, C. 2020. Rapid Analysis of Food Raw Materials Adulteration Using Laser Direct Infrared Spectroscopy and Imaging. *Food Control* 113: 107114.
- Daud, A., Suriat, dan Nuzulyant. 2019. Kajian Penerapan faktor yang mempengaruhi Akurasi Penentuan Kadar Air metode Thermogravimetri. *Jurnal Lutjanus* 24 : 11–16.
- Direktorat Jenderal Pengembangan Ekspor Nasional. 2017. Warta Ekspor: Peluang Ekspor Gula Semut. *Lppslh* 38 : 1-20.

- Domingues, D. S., Pauli, E.D., Abreu, J.E.M.D., Massura, F.W., Cristiano, V., Santos, M.J., dan Nixdorf, S.L. 2014. Detection of Roasted and Ground Coffee Adulteration by HPLC by Amperometric and by Post-Column Derivatization UV-Vis Detection. *Food Chemistry* 146: 353–62.
- Esslinger, S., Riedl, J., dan Fauhl-Hassek, C. 2014. Potential and Limitations of Non-Targeted Fingerprinting for Authentication of Food in Official Control. *Food Research International* 60: 189–204.
- Esslinger, S, dan Riedl, J. 2014. Potential and Limitations of Non-Targeted Fingerprinting for Authentication of Food in Official Control. *FRIN* 60: 189–204.
- Evalia, N.A. 2015. Strategi Pengembangan Agroindustri Gula Semut Aren. *Jurnal Manajemen dan Agribisnis* 12 : 57–67.
- Girolamo, D.E., Arroyo, M.C., Cervellieri, S., Cortese, M., Pascale, M., Logrieco, A.F., dan Lippolis, V.. 2020. Detection of Durum Wheat Pasta Adulteration with Common Wheat by Infrared Spectroscopy and Chemometrics: A Case Study. *Lwt* 127: 109368.
- Güven, B., Duraklı-Velioglu, S., dan Boyacı, I.H. 2019. Rapid Identification of Some Sweeteners and Sugars by Attenuated Total Reflectance-Fourier Transform Infrared (ATR-FTIR), Near-Infrared (NIR) and Raman Spectroscopy. *Gıda / the Journal of Food* 44 : 274–90.
- Hapsari, D.M., dan Panunggal, B. 2015. Hubungan Konsumsi Karbohidrat Sederhana dan Cairan terhadap Kadar Asam Urat pada Remaja Laki ± Laki. *Journal of Nutrition College* 4: 526–69.
- Herrero-Latorre, C., Barciela-García, J., García-Martín, S., dan Peña-Crecente, S.M. 2019. Detection and quantification of adulterations in aged wine using RGB digital images combined with multivariate chemometric techniques. *Food Chemistry: X* 3 : 100046.
- Huang, G., Chen, X., Li, L., Chen, X., Yuan, L., dan Shi, W.. 2020. Domain Adaptive Partial Least Squares Regression. *Chemometrics and Intelligent Laboratory Systems* 201: 103986.
- Irwan, dan Adam, K.. 2015. Metode Partial Least Square (PLS) dan Terapannya (Studi Kasus: Analisis Kepuasan Pelanggan terhadap Layanan PDAM Unit Camming Kab. Bone). *Teknosains* 9: 53–68.
- Kamboj, U., Kaushal, N., Mishra, S., dan Munjal, N.. 2020. Application of Selective Near Infrared Spectroscopy for Qualitative and Quantitative Prediction of Water Adulteration in Milk. *Materials Today: Proceedings* 24: 2449–56.
- Kristianingrum, S. 2016. Model Ikatan Kimia. *Handout Spektroskopi Infra Merah*. 1: 1–15.
- Lohumi, S., Lee, S., Lee, H., dan Cho, K., B. 2015. Review of Vibrational Spectroscopic Techniques for The Detection of Food Authenticity and Adulteration. *Trend in Food Science & Technology* 46 : 85–98.

- Lohumi, S., Lee, S., Lee, W.H, Kim, M.S., Mo, C., Bae, H., dan Cho, B.K.. 2014. Detection of Starch Adulteration in Onion Powder by FT-NIR and FT-IR Spectroscopy. *Journal of Agricultural and Food Chemistry* 62 : 9246–9251
- Maryani, Y., Rochmat, A., Khastini, R.O., Kurniawan, T., dan Saraswati, I.. 2021. Identification of Macro Elements (Sucrose, Glucose and Fructose) and Micro Elements (Metal Minerals) in the Products of Palm Sugar, Coconut Sugar and Sugar Cane. *Joint proceedings of the 2nd and the 3rd International Conference on Food Security Innovation (ICFSI 2018-2019)* 9: 271–74.
- Masithoh, R.E., Lohumi, S., Yoon, W.S., Amanah, H.Z., dan Cho, B.K. 2020. Development of Multi-Product Calibration Models of Various Root and Tuber Powders by Fourier Transform Near Infra-Red (FT-NIR) Spectroscopy for The Quantification of Polysaccharide Contents. *Heliyon* 6 : 101016.
- Masithoh, R.E., Roosmayanti, F., Rismiwandira, K., dan Pahlawan, M.F.R.. 2021. Detection of Palm Sugar Adulteration by Fourier Transform Near-Infrared (FT-NIR) and Fourier Transform Infrared (FT-IR) Spectroscopy. *Sugar Tech, no. Livesey* 653 : 012122.
- Medina, S., Perestrelo, R., Silva, P., Pereira, J. A.M., dan Câmara, J.S.. 2019. Current Trends and Recent Advances on Food Authenticity Technologies and Chemometric Approaches. *Trends in Food Science and Technology* 85: 163–76.
- Merr, W., dan Haagen, A.. 2014. Promising Source of Bioethanol and Sugar with Low Glycemic Index *Lionheart Agrotech Limited* 12 : 1–62.
- Noor, A. 2018. Perbandingan Algoritma Support Vector Machine Biasa dan Support Vector Machine berbasis Particle Swarm Optimization untuk Prediksi Gempa Bumi. *Jurnal Humaniora Teknologi* 4 : 31–37.
- Nurhadi, A., Sukri, N., Sugandi, W.K., Widanti, A.P., Restiani, R., Nofliarini, Z., B. Rezaharsanto, dan M. Herudiyanto. 2018. Comparison of Crystallized Coconut Sugar Produced by Traditional Method and Amorphous Coconut Sugar Formed by Two Drying Methods: Vacuum Drying and Spray Drying. *International Journal of Food Properties* 21 : 2339–54.
- Osborne, B.G. 2000. Near-Infrared Spectroscopy in Food Analysis. *Encyclopedia of Analytical Chemistry* 1–14.
- Pathare, P.B., Opara, U.L. , dan Al-Said, F.A.J.. 2013. Colour Measurement and Analysis in Fresh and Processed Foods: A Review. *Food and Bioprocess Technology* 6 : 36–60.
- Ramadhani, A.Y, Saputro, A.A., Wahyuni, L., Pahlevi, M.A., dan Aprianto, M.. 2019. Karbohidrat 1. *Journal of Chemical Information and Modeling* 53: 1689–99.
- Rismiwandira, K., Roosmayanti, F., Pahlawan, M. F.R., dan Masithoh, R. E.. 2021. Application of Fourier Transform Near-Infrared (FT-NIR) Spectroscopy for Detection of Adulteration in Palm Sugar. *IOP Conference Series: Earth and Environmental Science* 653 : 101088.

- Roosmayanti, F., Rismiwindira, K., dan Masithoh, R. E.. 2021. Detection of oconut (*Cocos nucifera*) Sugar Adulteration in Palm (*Arenga pinnata merrill*) Sugar by Fourier Transform Infrared (FT-IR) Spectroscopy. *Food Research* 5 : 31–36.
- Rosan, A.. 2020. Sukrosa. <https://alga-rosan.com/post/183>. Diakses pada 12 Januari 2022.
- Sankari, G., Krishnamoorthy, E., Jayakumaran, S., Gunasekaran, S., Priya, V.V., Shyama, S., Subramaniam, S., dan Mohan, S.K.. 2010. Analysis of Serum Immunoglobulins Using Fourier Transform Infrared Spectral Measurements. *Biology and Medicine* 2 : 42–48.
- Saputro, A.D., Walle, D.V.d, Aidoo, R.P., Mensah, M.A., Delbaere, C., Clercq, N.D., Durme, J.V., dan Dewettinck, K.. 2017. Quality Attributes of Dark Chocolates Formulated with Palm Sap-based Sugar as Nutritious and Natural Alternative Sweetener. *European Food Research and Technology* 243 : 177–91.
- Saputro, A.D., Walle, D.V.d, dan Dewettinck, K.. 2019. Palm Sap Sugar: A Review. *Sugar Tech* 21 : 862–67.
- Shafie, I. 2000. Pengantar Statistik. *Pusat Data dan Statistik Pendidikan-Kebudayaan Setjen, Kemdikbud* 22 : 1032890
- Sørensen, K.M., Khakimov, B., dan Engelsen, S.B.. 2016. The Use of Rapid Spectroscopic Screening Methods to Detect Adulteration of Food Raw Materials and Ingredients. *Current Opinion in Food Science* 10 : 45–51.
- Srikaeo, K., Sangkhiaw, J., dan Likittrakulwong, W.. 2019. Productions and Functional Properties of Palm Sugars. *Walailak Journal of Science and Technology* 16 : 897–907.
- Sulistiyani, M., dan Huda, N.. 2018. Perbandingan Metode Transmisi dan Reflektansi Pada Pengukuran Polistirena Menggunakan Instrumentasi Spektroskopi Fourier Transform Infra Red. *Indonesian Journal of Chemical Science* 7 : 195–98.
- Taylor, P., Vuuren, J.A.J.V., dan Groenewald, C.A.. 2013. Use of Scanning Near-Infrared Spectroscopy as a Quality Control Indicator for Bulk Blended Inorganic Fertilizers Use of Scanning Near-Infrared Spectroscopy as a Quality Control Indicator for Bulk. *Communications in Soil Science and Plant Analysis* 3 : 37–41.
- Wang, Q., Zhao, H., Zhu, M., Zhang, J., Cheng, N., dan Cao, W.. 2020. Method for Identifying Acacia Honey Adulterated by Resin Absorption: HPLC-ECD Coupled with Chemometrics. *Lwt* 118: 108863.
- Yuan, Z., Zhang, L., Wang, D., Jiang, J., Harrington, P.D.B., Mao, J., Zhang, Q., dan Li, P.. 2020. Detection ff Flaxseed Oil Multiple Adulteration by Near-Infrared Spectroscopy and Nonlinear One Class Partial Least Squares Discriminant Analysis. *Lwt* 125 : 109247.
- Yuliyanda, I., Masithoh, R. E., Khuriyati, N., dan Saputro, A. D.. 2019. Classification of Crop Flours based on Protein Contents Using Near Infra-red

Spectroscopy and Principle Component Analysis. *IOP Conference Series: Earth and Environmental Science* 355 : 101088.

Yun, Y.H., Cao, D.S., Tan, M.L., Yan, J., Ren, D.B., Xu, Q.S., Yu, L., dan Liang, Y.Z. . 2014. A Simple Idea on Applying Large Regression Coefficient to Improve The Genetic Algorithm-PLS for Variable Selection in Multivariate Calibration. *Chemometrics and Intelligent Laboratory Systems* 130: 76–83.

Zhou, W., Guo, P., Chen, J., dan Lei, Y.. 2020. A Rapid Analytical Method for The Quantitative Determination of The Sugar in Acarbose Fermentation by Infrared Spectroscopy and Chemometrics. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy* 240: 118571.