DAFTAR PUSTAKA

A'yun, Q., Harijati, N. and Mastuti, R. (2019) 'The selection technique of bulbil porang (*Amorphophallus muelleri* Blume) based on growth response', *Journal of Environmental Engineering & Sustainable Technology*, 06(01), pp. 30–35.

Aini, A. N., Azrianingsih, R. and Mustofa, I. (2020) 'Identification of potential pathogen bacteria causing tuber rot in Porang (*Amorphophallus muelleri* blume)', *Journal of Tropical Life Science*, 10(2), pp. 99–104. doi: 10.11594/jtls.10.02.02.

Alifianto, F., Azrianingsih, R. and Rahardi, B. (2013) 'Peta persebaran porang (*Amorphophallus muelleri* Blume) berdasarkan topografi wilayah di Malang raya', *Jurnal Biotropika*, 1(2), pp. 75–79. Available at: http://biotropika.ub.ac.id/index.php/biotropika/article/view/136/118.

Andasuryani *et al.* (2013) 'Determination of catechin as main bioactive component of gambir (*Uncaria gambir* Roxb) by FT-NIR Spectroscopy', 7(41), pp. 3076–3083. Available at: http://www.academicjournals.org/JMPR.

Anturida, Z. and Azrianingsih, R. (2015) 'Pengaruh jarak tanam terhadap pertumbuhan porang (*Amorphophallus muelleri* Blume) pada fase pertumbuhan kedua', *Jurnal Biotropika*, 3(3), pp. 132–136.

Arisoesilaningsih, E. *et al.* (2009) *Pemodelan Pertumbuhan Vegetatif dan Produksi Umbi Porang pada Beberapa Umur Tanaman Kondisi Vegetasi, Tanah, serta Iklim Agroforestri*, *Lib.Uin-Malang.Ac.Id*. Malang. Available at: http://lib.uin-malang.ac.id/files/thesis/fullchapter/03520047.pdf.

Babu, B. *et al.* (2011) 'Molecular detection and identification of Dasheen mosaic virus infecting *Amorphophallus paeoniifolius*', *Archives of Phytopathology and Plant Protection*, 44(13), pp. 1248–1260. doi: 10.1080/03235408.2010.490398.

Barker, M. and Rayens, W. (2003) 'Partial least squares for discrimination', *Journal of Chemometrics*, 17(3), pp. 166–173. doi: 10.1002/cem.785.

Budiman, B. And Arisoesilaningsih, E. (2011) 'Predictive model of

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Amorphophallus muelleri growth in some agroforestry in East Java by multiple regression analysis', *Biodiversitas Journal of Biological Diversity*, 13(1). doi: 10.13057/biodiv/d130104.

Chakraborty, S. K. *et al.* (2021) 'Non-destructive classification and prediction of aflatoxin-B1 concentration in maize kernels using Vis–NIR (400–1000 nm) hyperspectral imaging', *Journal of Food Science and Technology*, 58(2), pp. 437–450. doi: 10.1007/s13197-020-04552-w.

Cheng, T. *et al.* (2016) 'Barcoding the kingdom Plantae: New PCR primers for ITS regions of plants with improved universality and specificity', *Molecular Ecology Resources*, 16(1), pp. 138–149. doi: 10.1111/1755-0998.12438.

Choudhary, R. *et al.* (2009) 'Rapid estimation of lycopene concentration in watermelon and tomato puree by fiber optic visible reflectance spectroscopy', *Postharvest Biology and Technology*, 52(1), pp. 103–109. doi: 10.1016/j.postharvbio.2008.10.002.

da Conceição, R. R. P. *et al.* (2021) 'Application of near-infrared hyperspectral (NIR) images combined with multivariate image analysis in the differentiation of two mycotoxicogenic Fusarium species associated with maize', *Food Chemistry*, 344. doi: 10.1016/j.foodchem.2020.128615.

Cortés, V. *et al.* (2016) 'A new internal quality index for mango and its prediction by external visible and near-infrared reflection spectroscopy', *Postharvest Biology and Technology*, 118, pp. 148–158. doi: 10.1016/j.postharvbio.2016.04.011.

Fahri, N., Purwanto, Y. A. and Budiastra, I. W. (2016) 'Classification of Gedong gincu mango based on ratio sugar acid content using near infrared spectroscopy prediction', *Jurnal Keteknikan Pertanian*, 04(1), pp. 31–36. doi: 10.19028/jtep.04.1.31-36.

Del Fiore, A. *et al.* (2010) 'Early detection of toxigenic fungi on maize by hyperspectral imaging analysis', *International Journal of Food Microbiology*, 144(1), pp. 64–71. doi: 10.1016/j.ijfoodmicro.2010.08.001.

García-Sánchez, F. *et al.* (2017) 'Using Near-Infrared Spectroscopy in Agricultural Systems', in *Developments in Near-Infrared Spectroscopy*. InTech. doi:

10.5772/67236.

Guha Roy, S. and Hong, C. X. (2008) 'The first finding of pythium root rot and leaf blight of elephant foot yam (*Amorphophallus paeonifolius*) in India', *Plant Pathology*, 57(2), p. 369. doi: 10.1111/j.1365-3059.2007.01744.x.

Guidetti, R., Beghi, R. and Bodria, L. (2010) 'Evaluation of Grape QualityParameters by a System', 53(2), pp. 477–484.

Harmayani, E., Aprilia, V. and Marsono, Y. (2014) 'Characterization of glucomannan from *Amorphophallus oncophyllus* and its prebiotic activity in vivo', *Carbohydrate Polymers*, 112, pp. 475–479. doi: 10.1016/j.carbpol.2014.06.019.

Huby, I. M., Wanma, J. F. and Peday, M. H. (2020) 'Ordinance Pattern of Secondary Forest Tree Community in Manokwari Utara Sub- district , District of Manokwari', 6(1), pp. 21–36.

Kalogiouri, N. P. and Samanidou, V. F. (2020) 'Liquid chromatographic methods coupled to chemometrics: a short review to present the key workflow for the investigation of wine phenolic composition as it is affected by environmental factors', *Recent Developments And Innovative Strategies In Environmental Sciences In Europe*, 28(Environmental Science and Pollution Research), pp. 59150–59164. doi: 10.1007/s11356-020-09681-5/Published.

Kusumiyati, K., Hadiwijaya, Y. and Putri, I. E. (2019) 'Non-Destructive Classification of Fruits Based on Vis-nir Spectroscopy and Principal Component Analysis', *Jurnal Biodjati*, 4(1), pp. 89–95. doi: 10.15575/biodjati.v4i1.4389.

Lasalvia, M., Capozzi, V. and Perna, G. (2022) 'applied sciences A Comparison of PCA-LDA and PLS-DA Techniques for Classification of Vibrational Spectra'.

López-Maestresalas, A. *et al.* (2016) 'Non-destructive detection of blackspot in potatoes by Vis-NIR and SWIR hyperspectral imaging', *Food Control*, 70, pp. 229–241. doi: 10.1016/j.foodcont.2016.06.001.

Mallik, A. U. and Hamilton, J. (2017) 'Harvest date and storage effect on fruit size,

phenolic content and antioxidant capacity of wild blueberries of NW Ontario, Canada', *Journal of Food Science and Technology*, 54(6), pp. 1545–1554. doi: 10.1007/s13197-017-2586-8.

Marlina, M. *et al.* (2021) 'Pengaruh Ukuran Bulbil terhadap Pertumbuhan Bibit Tanaman Porang (*Amorphophallus oncophyllus* Prain)', *Prosiding Seminar Nasional*, pp. 755–762.

Masithoh, R. E. *et al.* (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(10). doi: 10.1016/j.heliyon.2020.e05099.

Masithoh, R. E., Pahlawan, M. F. R. and Wati, R. K. (2021) 'Non-destructive determination of SSC and pH of banana using a modular Vis/NIR spectroscopy: Comparison of Partial Least Square (PLS) and Principle Component Regression (PCR)', in *IOP Conference Series: Earth and Environmental Science*. IOP Publishing Ltd. doi: 10.1088/1755-1315/752/1/012047.

Min, M. *et al.* (2006) *Nondestructive Detection of Nitrogen in Chinese Cabbage Leaves Using VIS-NIR Spectroscopy*, *Hortscience*.

Mine, Y. *et al.* (2010) 'The Effects of Pot Sizes and Number of Plants per Pot on the Growth of Amorphophallus muelleri Blume', *J. Agron. Indonesia*, 38(3), pp. 238–242.

Nasir, S. *et al.* (2015) 'Porang', pp. 978-979–1159.

Noorvitri, I. . (2017) *Idemtifikasi Molekur Jamur Patogen Penyebab Penyakit Pada Porang (Amorphophallus muelleri)*. Gadjah Mada Yogyakarta.

Nurharyati, S., Susilawati, I. and Indriani, N. P. (2021) 'Pengaruh berbagai varietas jagung manis (Zea mays saccharata Sturt.) Terhadap Berat Segar, Berat dan Kandungan Serat Kasar Biomassa Tanaman Jagung', *Jurnal Nutrisi Ternak Tropis dan Ilmu Pakan*, 3(September), pp. 95–105.

Pahlawan, M. F. R., Wati, R. K. and Masithoh, R. E. (2021) 'Development of a low-cost modular Vis/NIR spectroscopy for predicting soluble solid content of banana', in *IOP Conference Series: Earth and Environmental*

Science. IOP Publishing Ltd. doi: 10.1088/1755-1315/644/1/012047.

Phetpan, K., Udompetaikul, V. and Sirisomboon, P. (2018) 'An online visible and near-infrared spectroscopic technique for the real-time evaluation of the soluble solids content of sugarcane billets on an elevator conveyor', *Computers and Electronics in Agriculture*, 154, pp. 460–466. doi: 10.1016/j.compag.2018.09.033.

Pravi, V., Jeeva, M. L. and Archana, P. V. (2014) 'Rapid and sensitive detection of Sclerotium rolfsii associated with collar rot disease of *Amorphophallus paeoniifolius* by species-specific polymerase chain reaction assay', *Molecular Biotechnology*, 56(9), pp. 787–794. doi: 10.1007/s12033-014-9757-x.

Pujiarto, D., Soekarno, B. P. W. and Maddu, A. (2018) 'Deteksi Cepat Fusarium sp. pada Benih Kedelai Menggunakan Metode Spektroskopi Fluoresens', *Jurnal Fitopatologi Indonesia*, 14(3), p. 97. doi: 10.14692/jfi.14.3.97.

Rady, A. and Guyer, D. (2015) 'Utilization of visible/near-infrared spectroscopic and wavelength selection methods in sugar prediction and potatoes classification', *Journal of Food Measurement and Characterization*, 9(1), pp. 20–34. doi: 10.1007/s11694-014-9207-2.

Roggo, Y. *et al.* (2007) 'A review of near infrared spectroscopy and chemometrics in pharmaceutical technologies', *Journal of Pharmaceutical and Biomedical Analysis*, 44(3 SPEC. ISS.), pp. 683–700. doi: 10.1016/j.jpba.2007.03.023.

Ruiz-Perez, D. *et al.* (2020) 'So you think you can PLS-DA?', *BMC Bioinformatics*, 21(Suppl 1), pp. 1–10. doi: 10.1186/s12859-019-3310-7.

Rungpichayapichet, P. *et al.* (2015) 'Non-destructive determination of β-carotene content in mango by near-infrared spectroscopy compared with colorimetric measurements', *Journal of Food Composition and Analysis*, 38, pp. 32–41. doi: 10.1016/j.jfca.2014.10.013.

Sakaroni, R., Suharjono, S. and Azrianingsih, R. (2019) 'Identification of potential pathogen fungi which cause rotten on Porang (*Amorphophallus muelleri* Blume) tubers', *AIP Conference Proceedings*, 2120(July). doi:

10.1063/1.5115748.

Sari, H. P., Purwanto, Y. A. and Budiastra, I. W. (2016) 'Pendugaan Kandungan Kimia Mangga Gedong Gincu Menggunakan Spektroskopi Inframerah Dekat, *Jurnal Agritech*, 36(03), p. 294. doi: 10.22146/agritech.16599.

Sari, M. *et al.* (2019) 'Seed Quality and Seedling Growth of Iles-Iles (*Amorphophallus muelleri* Blume) from Different Growing Media', *Jurnal Ilmu Pertanian Indonesia*, 24(2), pp. 144–150. doi: 10.18343/jipi.24.2.144.

Sari, M., Nasution, I. S. and Zulfahrizal, Z. (2019) 'Prediksi Kadar Air Gabah Menggunakan Near Infrared Reflectance Spectroscopy dengan Metode Principal Component Regression (Pre-treatment Multiplicative Scatter Correction, Second Derivative dan De-trending)', *Jurnal Ilmiah Mahasiswa Pertanian*, 4(1), pp. 568–577. doi: 10.17969/jimfp.v4i1.9830.

Satriana, E. (2016) 'Pengaruh Dosis Pupuk N (Nitrogen) Terhadap Kandungan Protein Kasar dan Serat Kasar Rumput Gajah CV.Moot Pada Tanah Regosol', *Universitas Matararam*, pp. 1–9. Available at: http://etd.lib.metu.edu.tr/upload/12620012/index.pdf.

Sekaran, U. and Bougie, R. (2016) 'Research Methods for Business', *Angewandte Chemie International Edition, 6(11), 951–952.*, 4(1), pp. 1–23.

Shahin, M. A. and Symons, S. J. (2012) 'Detection of fusarium damage in Canadian wheat using visible/near-infrared hyperspectral imaging', *Journal of Food Measurement and Characterization*, 6(1–4), pp. 3–11. doi: 10.1007/s11694-012-9126-z.

Shahin, M. A., Symons, S. J. and Hatcher, D. W. (2014) 'Quantification of Mildew Damage in Soft Red Winter Wheat Based on Spectral Characteristics of Bulk Samples: A Comparison of Visible-Near-Infrared Imaging and Near-Infrared Spectroscopy', *Food and Bioprocess Technology*, 7(1), pp. 224–234. doi: 10.1007/s11947-012-1046-8.

Sivachandra Kumar, N. T. and Banniza, S. (2017) 'Assessment of the effect of seed infection with *Ascochyta pisi* on pea in western Canada', *Frontiers in Plant Science*, 8(June), pp. 1–7. doi: 10.3389/fpls.2017.00933.

Skolik, P., McAinsh, M. R. and Martin, F. L. (2019) 'ATR-FTIR spectroscopy non-

destructively detects damage-induced sour rot infection in whole tomato fruit', *Planta*, 249(3), pp. 925–939. doi: 10.1007/s00425-018-3060-1.

Slater A, Scott N, Fowler M, Davies, W. P. (2003) 'Plant biotechnology: the genetic manipulation of plants.', *Annals of Botany*, 94(4), pp. 646–646. doi: 10.1093/aob/mch186.

Soedarjo, M. and Djufry, F. (2021) 'Identified diseases would threaten on the expansion of *Amorphophallus muellery* Blume cultivation in Indonesia', in *IOP Conference Series: Earth and Environmental Science*. IOP Publishing Ltd. doi: 10.1088/1755-1315/648/1/012043.

Soedarjo Muchdar, Y. B. F. D. (2020) 'Growth Response of Porang (*Amorphophallus muelleri* Blume) Grown with Different Sizes of Bulbils on Saline Soil', *International Journal of Research Studies in Agricultural Sciences*, 6(4). doi: 10.20431/2454-6224.0604002.

Sulistiyo, R. H. and Soetopo, L. (2014) 'Eksplorasi Dan Identifikasi Karakter Morfologi Porang (*Amorphophallus Muelleri* B) Di Jawa Timur Eksploration And Identification Morphological Character Of Elephant Yam (*Amorphophallus muelleri* B .) In East Java', *Jurnal Produksi Tanaman*, 3(5), pp. 353–361.

Sumarwoto (2012) 'Peluang Bisnis Beberapa Macam Produk Hasil Tanaman Iles Kuning di DIY melalui Kemitraan dan Teknik Budidaya', *Business Conference*, 20, pp. 1–13.

Sumarwoto, S. (2005) 'Iles-iles (*Amorphophallus muelleri* Blume); description and other characteristics', *Biodiversitas Journal of Biological Diversity*, 6(3). doi: 10.13057/biodiv/d060310.

Tamburini, E. *et al.* (2016) 'Quantitative determination of Fusarium proliferatum concentration in intact garlic cloves using near-infrared spectroscopy', *Sensors (Switzerland)*, 16(7). doi: 10.3390/s16071099.

Tiwari, R. K. *et al.* (2020) 'Potato dry rot disease: current status, pathogenomics and management', *3 Biotech*, 10(11), pp. 1–18. doi: 10.1007/s13205-020-02496-8.

Turner, R. E. *et al.* (2020) 'Effects of purple seed stain on seed quality and

composition in soybean', *Plants*, 9(8), pp. 1–10. doi: 10.3390/plants9080993.

Wati, R. K., Pahlawan, M. F. R. and Masithoh, R. E. (2021) 'Development of calibration model for pH content of intact tomatoes using a low-cost Vis/NIR spectroscopy', in *IOP Conference Series: Earth and Environmental Science*. IOP Publishing Ltd. doi: 10.1088/1755-1315/686/1/012049.

Wijayanto, N. and Pratiwi, E. (2011) 'Pengaruh Naungan dari Tegakan Sengon (*Paraserianthes falcataria* (L.) Nielsen) terhadap Pertumbuhan Tanaman Porang (*Amorphophallus onchophyllus*)', *Jurnal Silvikultur Tropika*, 1, pp. 46–51.

Wu, N. *et al.* (2020) 'Practicability investigation of using near-infrared hyperspectral imaging to detect rice kernels infected with rice false smut in different conditions', *Sensors and Actuators, B: Chemical*, 308. doi: 10.1016/j.snb.2020.127696.

Yan, J. *et al.* (2020) 'A prediction model based on deep belief network and least squares SVR applied to cross-section water quality', *Water (Switzerland)*, 12(7). doi: 10.3390/w12071929.