

DAFTAR PUSTAKA

- Abraham, E.J. and Kellogg, J.J. (2021) 'Chemometric-Guided Approaches for Profiling and Authenticating Botanical Materials', *Frontiers in Nutrition*, 8 (780228), pp. 1-24. doi: 10.3389/fnut.2021.780228
- Azizan, N.I., Mokhtar, N.F.K., Arshad, S., Sharin, S.N., Mohamad, N., Mustafa, S. and Hashim, A.M. (2021) 'Detection of Lard Adulteration in Wheat Biscuits Using Chemometrics-Assisted GCMS and Random Forest', *Food Analytical Methods*, 14(11), pp. 2276-2287. doi: 10.1007/s12161-021-02046-9
- Azzahro, R.K. (2023) *Harga Bawang Merah Brebes Mahal, Pedagang di Kota Jambi Selingi Jual Bawang Birma Nganjuk*. Tersedia di: [Harga Bawang Merah Brebes Mahal, Pedagang di Kota Jambi Selingi Jual Bawang Birma Nganjuk - Tribunjambi.com \(tribunnews.com\)](https://www.tribunnews.com/jambi/2023/02/24/harga-bawang-merah-brebes-mahal-pedagang-di-kota-jambi-selingi-jual-bawang-birma-nganjuk) (diakses: 24 Februari 2023).
- Barbosa, S., Saurina, J., Puignou, L. and Nunez, O. (2020) 'Classification and Authentication of Paprika by UHPLC-HRMS Fingerprinting and Multivariate Calibration Methods (PCA and PLS-DA)', *Foods*, 9(486), pp. 1-10. doi: 10.3390/foods9040486
- Basuki, R.S., Khaririyatun, N., Sembiring, A. and Arsanti, I.W. (2017) 'Studi Adopsi Varietas Bawang Merah Bima Brebes dari Balitsa di Kabupaten Brebes', *Jurnal Hortikultura*, 27(2), pp. 261-268. doi: 10.21082/jhort.v27n2.2017.p261-268
- Biocrates. (2020) *Metaboanalyst Tutorial*. Innsbruck, Austria: Biocrates Life Sciences.
- Chong, J., Wishart, D.S. and Xia, J. (2019) 'Using MetaboAnalyst 4.0 for Comprehensive and Integrative Metabolomics Data Analysis', *Current Protocols in Bioinformatics*, 68(1), pp. e86. doi: 10.1002/cpbi.86
- Cristiani, D. and Rahardjo, J. (2018) 'Perancangan Analisa Risiko Berbasis ISO 9001: 2015 dan FSSC 22000 di PT Hapete Surabaya', *Jurnal Titra*, 6(2), pp. 265-272.
- Drira, M., Guclu, G., Portolés, T., Jabeur, H., Kelebek, H., Selli, S. and Bouaziz, M. (2021) 'Safe and Fast Fingerprint Aroma Detection in Adulterated Extra Virgin Olive Oil Using Gas Chromatography–Olfactometry–Mass

- Spectrometry Combined with Chemometrics’, *Food Analytical Methods*, 14(10), pp. 2121–2135. doi: 10.1007/s12161-021-02034-z
- El-Wakil, E.A., El-Sayed, M.M., dan Abdel-Lateef, E.E.S. (2015) ‘GC-MS Investigation of Essential Oil and Antioxidant Activity of Egyptian White Onion (*Allium cepa* L.)’, *International Journal of Pharma Sciences and Research (IJPSR)*, 6(3), pp. 537-543.
- Esteki, M., Shamsavari, Z. and Simal-Gandara, J. (2020) ‘Gas Chromatographic Fingerprinting Coupled to Chemometrics for Food Authentication’ *Food Reviews International*, 36(4), pp. 384–427. doi: 10.1080/87559129.2019.1649691
- Fagbemi, K.O., Aina, D.A. and Olajuvigbe, O.O. (2021) ‘Soxhlet Extraction Versus Hydrodistillation Using the Clevenger Apparatus: A Comparative Study on the Extraction of a Volatile Compound from *Tamarindus indica* Seeds’, *The Scientific World Journal*, 2021, pp. 1-8. doi: 10.1155/2021/5961586
- Ferdiansyah, A., Wulandari, I. and Asri, N.R. (2019) ‘Ekstraksi Minyak Atsiri dari Bawang Merah dengan Metode *Microwave Ultrasonic Steam Diffusion* (MUSDF)’, *Akta Kimia Indonesia*, 4(2), pp. 86-94. doi: 10.12962/j25493736.v4i2.5093.
- Ferrant PHE. (2024) Shallot Essential Oil. Tersedia di: <https://www.ferrantphe.com/wp-content/uploads/2020/11/Spe-Shallot.pdf> (diakses: 17 Januari 2024).
- Gafner, S., Blumenthal, M., Foster, S., Cardellina, J.H., Khan, I.A. and Upton, R. (2023) ‘Botanical Ingredient Forensics: Detection of Attempts to Deceive Commonly Used Analytical Methods for Authenticating Herbal Dietary and Food Ingredients and Supplements’, *Journal of Natural Products*, 86(2), pp. 460–472. doi: 10.1021/acs.jnatprod.2c00929
- Giese, E., Rohn, S. and Fritsche, J. (2019) ‘Chemometric Tools for the Authentication of Cod Liver Oil Based on Nuclear Magnetic Resonance and Infrared Spectroscopy Data’, *Analytical and Bioanalytical Chemistry*, 411, pp. 6931-6942. doi: 10.1007/s00216-019-02063-y
- Galingging, R.Y., Sobir, Aisyah, S. and Maharijaya, A. (2018) ‘GC-MS Profiling of Volatile Compounds from Fifteen Different Varieties of Indonesian Shallot

- Grown in Tidal Swampland’, *Rasayan Journal of Chemistry*, 11(2), pp. 575-581. doi: 10.31788/RJC.2018.1123001
- González-Domínguez, R., Sayago, A. and Fernández-Recamales, A. (2022) ‘An Overview on the Application of Chemometrics Tools in Food Authenticity and Traceability’, *Foods*, 11(23), pp. 1-13. doi: 10.3390/foods11233940
- Hartoyo. (2020) ‘Potensi Bawang Merah sebagai Tanaman Herbal untuk Kesehatan Masyarakat Desa Jemasih Kec. Ketanggungan Kab. Brebes’, *Jurnal Ilmiah Indonesia*, 5(10), pp. 1109-1120. doi: 10.36418/syntax-literate.v5i10.1704
- Jumhawan, U., Putri, S.P., Yusianto, Bamba, T. and Fukusaki, E. (2015) ‘Application of Gas Chromatography/Flame Ionization Detector-Based Metabolite Fingerprinting for Authentication of Asian Palm Civet Coffee (Kopi Luwak)’, *Journal of Bioscience and Bioengineering*, 120(5), pp. 1-7. doi: 10.1016/j.jbiosc.2015.03.005
- Juliarti, A., Wijayanto, N., Mansur, I. and Trikoesoemaningtyas, T. (2020) ‘Analisis Rendemen Minyak Serehwangi (*Cymbopogon nardus* L.) yang Ditanam dengan Pola Agroforestri dan Monokultur pada Lahan Revegetasi Pasca Tambang Batubara’, *Jurnal Sylva Lestari*, 8(2), pp. 181-188. doi: 10.23960/jsl28181-188
- Jwaili, M. (2019) ‘Pharmaceutical Applications of Gas Chromatography’, *Open Journal of Applied Sciences*, 09(09), pp. 683–690. doi: 10.4236/ojapps.2019.99055
- Kalogiouri, N.P., Aalizadeh, R., Dasenaki, M.E. and Thomaidis, N.S. (2020) ‘Application of High Resolution Mass Spectrometric Methods Coupled with Chemometric Techniques in Olive Oil Authenticity Studies – A Review’, *Analytica Chimica Acta*, 1134, pp. 150-173. doi: 10.1016/j.aca.2020.07.029
- KEMENTAN. (1984) Deskripsi Bawang Merah Varietas Bima Brebes. Tersedia di: <https://varitas.net/dbvarietas/deskripsi/194.pdf> (diakses: 16 Oktober 2023).
- KEMENTAN. (2000) Deskripsi Bawang Merah Varietas Bauji. Tersedia di: <https://www.varitas.net/dbvarietas/deskripsi/193.pdf> (diakses: 16 Oktober 2023).
- KEMENTAN. (2004) Deskripsi Bawang Merah Varietas Batu Ijo. Tersedia di: <https://varitas.net/dbvarietas/deskripsi/197.pdf> (diakses: 16 Oktober 2023).

- KEMENTAN. (2009) Deskripsi Bawang Merah Varietas Biru Lancor. Tersedia di: <https://varitas.net/dbvarietas/deskripsi/2024.pdf> (diakses: 16 Oktober 2023).
- KEMENTAN. (2016) Deskripsi Bawang Merah Varietas Tajuk. Tersedia di: <http://varitas.net/dbvarietas/varimage/Bawang%20Merah%20Tajuk.pdf> (diakses: 16 Oktober 2023).
- Kerdudo, A., Ellong, E.N., Burger, P., Gonnot, V., Boyer, L., Chandre, F., Adenet, S., Rochefort, K., Michel, T. dan Fernandez, X., (2017) ‘Chemical Composition, Antimicrobial and Insecticidal Activities of Flowers Essential Oils of *Alpinia Zerumbet* (Pers.) B.L. Burtt & R.M.Sm. from Martinique Island’, *Chemistry & Biodiversity*, 14(4), pp. e1600344. doi: 10.1002/cbdv.201600344
- Liu, H., Zeng, Y., Zhao, X., ye, Y., Wang, B. and Tong, H. (2020) ‘Monitoring the Authenticity of Pu’er Tea via Chemometric Analysis of Multielements and Stable Isotopes’, *Food Research International*, 109483. doi: 10.1016/j.foodres.2020.109483
- Marwati, M., Taebe, B., Tandilolo, A. and Nur, S. (2021) ‘Pengaruh Tempat Tumbuh dan Profil Kandungan Kimia Minyak Atsiri dari Rimpang Jahe Merah (*Zingiber officinale* Linn. Var rubrum)’, *Jurnal Sains dan Kesehatan*, 3(2), pp. 248-254. doi: 10.25026/jsk.v3i2.396
- Maulidya, V., Hasanah, A.N., Rijai, L. and Muchtaridi, M. (2023) ‘Quality Control and Authentication of Black Betel Leaf Extract (*Piper acre* Blume) from East Kalimantan as an Antimicrobial Agent Using a Combination of High-Performance Liquid Chromatography and Chemometric Fourier Transform Infrared’, *Molecules*, 28(15), pp. 5666. doi: 10.3390/molecules28155666
- Medina, S., Perestrelo, R., Silva, P., Pereira, J.A.M., and Câmara, J.S. (2019) ‘Current Trends and Recent Advances on Food Authenticity Technologies and Chemometric Approaches’, *Trends in Food Science & Technology*, 85, pp. 163–176. doi: 10.1016/j.tifs.2019.01.017
- Moldovan, C., Frumuzachi, O., Babota, M., Bamonakrros, L., Mocan, A., Carradori, S. and Crisan, G. (2022) ‘Therapeutic Uses and Pharmacological Properties of Shallot (*Allium ascalonicum*): A Systematic Review’, *Frontiers in Nutrition*, 9, pp. 1-34. doi: 10.3389/fnut.2022.903686

- Moradi, S., Fazlali, A., and Hamedi, H. (2018) 'Microwave-Assisted Hydro-Distillation of Essential Oil from Rosemary: Comparison with Traditional Distillation', *Avicenna Journal of Medical Biotechnology*, 10(1), pp. 22–28.
- Morozzi, P., Zappi, A., Gottardi, F., Locatelli, M. and Melucci, D. (2019) 'A Quick and Efficient Non-Targeted Screening Test for Saffron Authentication: Application of Chemometrics to Gas-Chromatographic Data', *Molecules*, 24(14), pp. 2602. doi: 10.3390/molecules24142602
- Novendratama, D. and Andaka, G. (2022) 'Pengambilan Minyak Atsiri dari Rimpang Temulawak Dengan Proses Ekstraksi Menggunakan Pelarut *n*-Heksan (Variabel Volume Pelarut Dan Waktu Ekstraksi). *Jurnal Inovasi Proses*. 7(2), pp. 69–74. doi: 10.34151/jip.v7i2.4225
- Nugroho, M., Hosea, F. and Tanuwijaya, J. (2023) *Studi Penetapan Wilayah Produksi Jagung Secara Nasional Untuk Pengembangan Supply Bahan Baku Industri Pangan*. Solok: Mafy Media Literasi Indonesia.
- Ospina, J.D., Tovar, C.D.G., Flores, J.C.M. and Orozco, M.S.S. (2016) Relationship Between Refractive Index and Thymol Concentration in Essential Oils of *Lippia origanoides* Kunth', *Chilean Journal of Agricultural & Animal Sciences*, 32(2), pp. 127-133. doi: 10.4067/S0719-38902016000200006
- Ottensmann, M., Stoffel, M.A., Nichols, H.J. and Hoffman, J.I. (2018) 'GCalignR: An R Package for Aligning Gas-Chromatography Data for Ecological and Evolutionary Studies', *PloS One*, 13(6), pp. 1-20. doi: 10.1371/journal.pone.0198311
- Pratiwi, L., Rachman, M.S. dan Hidayati, N. (2016) 'Ekstraksi Minyak Atsiri dari Bunga Cengkeh Dengan Pelarut Etanol Dan *n*-Heksana', *The 3rd University Research Colloquium*. 2016, Surakarta, Indonesia, pp. 131-137.
- Peng, D., Bi, Y., Ren, X., Yang, G., Sun, S. and Wang, X. (2015) 'Detection and Quantification of Adulteration of Sesame Oils with Vegetable Oils Using Gas Chromatography and Multivariate Data Analysis', *Food Chemistry*, 188, pp. 415-421. doi: 10.1016/j.foodchem.2015.05.001

- Permana, D.F.W., Mustofa, A.H., Nuryani, L., Kristiaputra, P.S. and Alamudin, Y. (2021) 'Budidaya Bawang Merah di Kabupaten Brebes', *Jurnal Bina Desa*, 3(2), pp. 125-132. doi: 10.15294/jbd.v3i2.31916
- PubChem. (2024) n-Hexane: Boiling Point. Tersedia di: <https://pubchem.ncbi.nlm.nih.gov/compound/8058#section=Boiling-Point> (diakses: 16 Januari 2024)
- Rohman, A. (2020) *Analisis Autentikasi Makanan: Minyak dan Lemak*. Sleman: Gadjah Mada University Press.
- Rohman, A., Irnawati and Riswanto, F.D.O. (2021) *Kemometrika*. Sleman: Gadjah Mada University Press.
- Santoso, U., Setyaningsih, W., Ningrum, A. and Ardhi, A. (2020) *Analisis Pangan*. Sleman: Gadjah Mada University Press.
- Septiana, L.R., Machfud, M. and Yuliasih, I. (2017) 'Peningkatan Kinerja Rantai Pasok Bawang Merah (Studi Kasus: Kabupaten Brebes)', *Jurnal Teknologi Industri Pertanian*, 27(2), pp. 125-140.
- Selamat, J., Rozani, N.A.A. and Murugesu, S. (2021) 'Application of the Metabolomics Approach in Food Authentication', *Molecules*, 26(24), pp. 7565. doi: 10.3390/molecules26247565
- Slamet, S., Ulyarti, U. and Rahmi, S.L. (2019) 'Pengaruh Lama Fermentasi terhadap Rendemen dan Mutu Fisik Minyak Nilam Pogostemon cablin Benth', *Jurnal Teknologi dan Industri Pertanian Indonesia*, 11(1), pp. 19-25. doi: 10.17969/jtipi.v11i1.11671
- Sugiharto, Y., Natania, E., Febriyanti, S.A. and Kribianto, O. (2022) 'Comparison of Gas Chromatography Detectors and Its Application in Food Analysis', *Journal of Food and Agricultural Product*, 2(1), pp. 23-36. doi: 10.32585/jfap.v2i1.2250
- Sun, X., Zhang, M., Wang, P., Chen, J., Yang, S., Luo, P. and Gao, X. (2022) 'Detection and Quantitation of Adulterated Paprika Samples Using Second-Order HPLC-FLD Fingerprints and Chemometrics', *Foods*, 11(15), pp. 1-12. doi: 10.3390/foods11152376
- Suyono, J., Hartanti, N.U. and Narto. (2019) 'IbM Teknologi Biofilter dan Bioaktif untuk Polikultur Mina-Bawang Intensif di Lahan Kristis Air Kabupaten

- Brebes, Jawa Tengah', *Jurnal Pengabdian kepada Masyarakat*, 10(1), pp. 23–33. doi: 10.26877/e-dimas.v10i1.2152
- Syahidan, H.H. and Wardhana, Y.W. (2019) 'Review Jurnal: Parameter Standarisasi Tanaman Herbal untuk Pengobatan', *Farmaka*, 17(2), pp. 263-274. doi: 10.24198/jf.v17i2.22094
- Vârban, D., Zăhan, M., Pop, C. R., Socaci, S., Ştefan, R., Crişan, I., Bota, L. E., Miclea, I., Muscă, A. S., Deac, A. M. and Vârban, R. (2022) 'Physicochemical Characterization and Prospecting Biological Activity of Some Authentic Transylvanian Essential Oils: Lavender, Sage and Basil', *Metabolites*, 12(10), pp. 962. doi: 10.3390/metabo12100962
- Yofananda, O., Sobir, Wijaya, C.H. and Lioe, H.N. (2021) 'Variability and Relationship of Six Indonesian Shallots (*Allium cepa* var. *ascalonicum*) Cultivar Based on Amino Acid Profiles and Fried Shallot's Sensory Characteristics', *Biodiversitas*, 22(8): 3327-3332. doi: 10.13057/biodiv/d220828
- Yundu, Y., Maarisit, W., Potalangi, N.O. and Tapehe, Y. (2020) 'Uji Efektivitas Fraksi *n*-heksan Daun Kemangi *Ocinum sanctum* Sebagai Analgesik pada Tikus Putih *Rattus novergicus*', *Biofarmasetikal Tropis (The Tropical Journal of Biopharmaceutical)*, 3(1), pp. 128–135. doi: 10.55724/j.biofar.trop.v3i1.268