

DAFTAR PUSTAKA

- Amin, A., 2016, Determinasi dan Analisis Finger Print Daun Miana (*Coleus scutellarioides* Linn.) Sebagai Bahan Baku Obat Tradisional, *Jf Fik Unam*, **4**(2), 58–64.
- Andila, P. S., Hendra, I. P. A., Wardani, P. K., Tirta, I. G., Sutomo, S., & Fardenan, D., 2018, The phytochemistry of *Cymbopogon winterianus* essential oil from Lombok Island, Indonesia and its antifungal activity against phytopathogenic fungi, *Nusantara Bioscience*, **10**(4), 232–239. <https://doi.org/10.13057/nusbiosci/n100406>.
- Anitescu, G., Doneanu, C., & Radulescu, V., 1997, Isolation of coriander oil: Comparison between steam distillation and supercritical CO₂ extraction, *Flavour and Fragrance Journal*, **12**(3), 173–176. [https://doi.org/10.1002/\(SICI\)1099-1026\(199705\)12:33.0.CO;2-1](https://doi.org/10.1002/(SICI)1099-1026(199705)12:33.0.CO;2-1).
- Ariyani, F., Setiawan, L. E., & Felycia Edi Soetaredjo., 2008, Ekstraksi Minyak Atsiri Dari Tanaman Sereh Dengan. *Widya Teknik*, **7**(2), 124–133.
- Bober, L., & Kalisz, R., 1997, *Prediction of pharmacological classification by means of chromatographic parameters processed by principal component analysis*. **159**, 43–55.
- Bosque-Sendra, J. M., Cuadros-Rodríguez, L., Ruiz-Samblás, C., & de la Mata, A. P., 2012, Combining chromatography and chemometrics for the characterization and authentication of fats and oils from triacylglycerol compositional data-A review. *Analytica Chimica Acta*, **724**, 1–11. <https://doi.org/10.1016/j.aca.2012.02.041>
- Brereton, R. G., 2009, *Chemometrics for Pattern Recognition*, John Wiley & Sons, Ltd. <https://doi.org/10.1002/9780470746462>
- Burt, S., 2004, Essential oils: Their antibacterial properties and potential applications in foods - A review, *International Journal of Food Microbiology*, **94**(3), 223–253, <https://doi.org/10.1016/j.ijfoodmicro.2004.03.022>.
- Can Başer, K. H., & Buchbauer, G., 2015, *Handbook of essential oils: Science, technology, and applications, second edition*. In *Handbook of Essential Oils: Science, Technology, and Applications, Second Edition*, CRC Press, Boca Raton. <https://doi.org/10.1201/b19393>.
- Cassel, E., & Vargas, R. M. F., 2006, Experiments and Modeling of the *Cymbopogon winterianus* Essential Oil Extraction by Steam Distillation. *Journal of Mexican Chemical Society*, **50**, 126-129.
- Cuchet, A., Jame, P., Anchisi, A., Schiets, F., Oberlin, C., Lefèvre, J. C., Carénini, E., & Casabianca, H., 2019, Authentication of the naturalness of wintergreen (*Gaultheria* genus) essential oils by gas chromatography, isotope ratio mass spectrometry and radiocarbon assessment, *Industrial Crops and Products*, **142**, 100-105. <https://doi.org/10.1016/j.indcrop.2019.111873>

- Daba, A., Tadesse, M., Habte, G., & Teressa, A., 2022, Phytochemical composition of essential oils from aromatic plants inherited with bioherbicidal activity in arabica coffee production system of Ethiopia. *Journal of Agriculture and Food Research*, 10(June), 100368. <https://doi.org/10.1016/j.jafr.2022.100368>
- Daszykowski M. & Walczak B., 2006, Use and abuse of chemometrics in chromatography, *TrAC Trends Anal Chem*, **25**, 81–96.
- Delazar, Abbas, Lutfun Nahar, Hamedeyazdan S., & Sarker S.D., 2012, Microwave-Assisted Extraction in Natural Products Isolation, *Molecular Biology*, vol. 864, Springer Science, New York.
- Dika, F., Riswanto, O., Riyanto, S., & Martono, S., 2020, Pemanfaatan Paket Perangkat Lunak R factoxtra dan FactoMineR serta Aplikasi Analisis Komponen Utama dalam Autentikasi Beragam Jenis Minyak, *Indonesian Journal of Chemometrics and Pharmaceutical Analysis*, **1**(1), 1–10.
- Djoar D. W., Sahari, P., & Sugiyono, 2010, *Studi morfologidan analisis korelasi antar karakter komponen hasil tanaman dan sereh wangi (Cymbopogon sp.) dalam upaya perbaikan produksi minyak*, Fakultas Pertanian UNS, Surakarta.
- Dupuy, N., Duponchel, L., Huvenne, J. P., Sombret, B., & Legrand, P., 1996, Classification of edible fats and oils by principal component analysis of Fourier transform infrared spectra, *Food Chemistry*, **57**(2), 245–251. [https://doi.org/10.1016/0308-8146\(95\)00213-8](https://doi.org/10.1016/0308-8146(95)00213-8).
- Dupuy, N., Galtier, O., Ollivier, D., Vanloot, P., & Artaud, J., 2010, Comparison between NIR, MIR, concatenated NIR and MIR analysis and hierarchical PLS model. Application to virgin olive oil analysis, *Analytica Chimica Acta*, **666**(1–2), 23–31. <https://doi.org/10.1016/j.aca.2010.03.034>
- Esslinger S., Riedl J., & Fauhl-Hassek C., 2014, Potential and limitations of non-targeted fingerprinting for authentication of food in official control. *Food Res Int*, **60**:189–204.
- Evans, W. C., 2009, Trease and Evans' Pharmacognosy: Sixteenth Edition, *Trease and Evans' Pharmacognosy: Sixteenth Edition*, **1**,603.
- Fatima, K., & Luqman, S., 2021, South African Journal of Botany Citronellal suppress the activity of ornithine decarboxylase in hypopharyngeal carcinoma cells, *South African Journal of Botany*, **143**, 443–448. <https://doi.org/10.1016/j.sajb.2021.07.043>
- Feng, X., Kong, W., Wei, J., Ou-yang, Z., & Yang, M., 2013, HPLC fingerprint analysis combined with chemometrics for pattern recognition of ginger, *Pharmaceutical Biology*, **52**(3), 362–367. <https://doi.org/10.3109/13880209.2013.837493>
- Feriyanto, Y. E., Sipahutar, P. J., Mahfud, & Prihatini, P., 2013, Menggunakan Metode Distilasi Uap dan Air dengan Pemanasan Microwave, *Jurnal Teknik*

POMITS, 2(1), 93–97.

- Guinati, S., Neiva, V., Antonio, L., Filho, P., Sousa, N., Duarte, J., Machado, C., Ribeiro, G., Grasseschi, D., Karlos, W., Coltro, T., & Oliveira, M., 2023, *Trends in Analytical Chemistry Combining chemometrics and paper-based analytical devices for sensing: An overview*. **164**. <https://doi.org/10.1016/j.trac.2023.117091>
- Guntarti, A., Pratiwi, H. K., Nurani, L. H., & Gandjar, I. G., 2022, Authentication of Lemongrass Oil By Gas Chromatography-Mass Spectroscopy (GC-MS) Combination Chemometrics. *Indonesian Journal of Pharmaceutical Science and Technology*, **9**(3), 174. <https://doi.org/10.24198/ijpst.v9i3.32558>
- Hanief, M. M. Al, Halim, A. M., & Mahfud, 2013, Ekstraksi Minyak Atsiri dari Akar Wangi distillation dan Hydro distilation dengan Pemanas Microwave, *JURNAL TEKNIK POMITS*, 2(2), 219–223.
- Hübschmann, H., 2015, *Handbook of GC-MS: Fundamentals and Applications*, Wiley-VCH., USA
- ITIS, 2023, *Cymbopogon winterianus Jowitt ex Bor.* <https://doi.org/https://doi.org/10.5066/F7KH0KBK>, diakses pada 20 September 2023 pukul 13.50 WIB.
- Kakaraparthi P.S., Srinivas, Kuma J.K., Kumar A.N., Rajput D.K., & Sarma, 2014. Variation in the essential oil content and Composition of Citronella (*Cymbopogon winterianus* Jowitt.) in relation to time of harvest and weather conditions, *Ind Crops Prod*, **61**:240-248
- Katiyar, R., Gupta, S., & Yadav, K. R., 2011, *Cymbopogon winterianus*: An Important Species for Essential Java Citronella Oil and Medicinal Value, *National Conference on Forest Biodiversity*, 115–118.
- Kharbach, M., Marmouzi, I., El, M., Bouklouze, A., & Vander, Y., 2020, Journal of Pharmaceutical and Biomedical Analysis Recent advances in untargeted and targeted approaches applied in herbal-extracts and essential-oils fingerprinting - A review, *Journal of Pharmaceutical and Biomedical Analysis*, **177**, 112849. <https://doi.org/10.1016/j.jpba.2019.112849>
- Lestari H.P., Martono S., Wulandari R., Rohman A., 2017, Simultaneous analysis of Curcumin and demethoxycurcumin in Curcuma xanthorrhiza using FTIR spectroscopy and chemometrics, *Int Food Res*, **24**, 97–101.
- Li, X., Kong, W., Shi, W., & Shen, Q., 2016, A combination of chemometrics methods and GC-MS for the classification of edible vegetable oils, *Chemometrics and Intelligent Laboratory Systems*, **155**, 145–150. <https://doi.org/10.1016/j.chemolab.2016.03.028>
- Łukasz, K., & Joseph, S., 2018, *Chemometrics in Chromatography*. In *Chromatographia*. Springer Berlin Heidelberg. <https://doi.org/10.1007/s10337-019-03792-z>

- Miller, J. N., & Miller, J. C., 2010, *Statistics and Chemometrics for Analytical Chemistry. Sixth Edition*, Ashford Colour Press Ltd., Gosport.
- Mok, D. K. W., & Chau, F. T., 2006, Chemical information of Chinese medicines: A challenge to chemist, *Chemometrics and Intelligent Laboratory Systems*, 82(1-2 SPEC. ISS), 210–217. <https://doi.org/10.1016/j.chemolab.2005.05.006>
- Nugraha, A., Bayu, A., & Nandiyanto, D. (2021). How to read and Interpret GC/MS Spectra Indonesian Journal of Multidisciplinary Research. *Indonesian Journal of Multidisciplinary Research*, 1(2), 171–206.
- Pinheiro P. F., Tebaldi de Queiroz V., Rondelli V. M., Costa A. V., Paula M. T. & Pratisoli D., 2013, Insecticidal activity of citronella grass essential oil on *Frankliniella schultzei* and *Myzus persicae*, **37**, 138-144.
- Porawati, H., & Kurniawan, A., 2019, Rancang Bangun Alat Penyuling Minyak Atsiri Tumbuhan Nilam Metode Distilasi Air dan Uap, *Jurnal Inovator*, 2(1), 20–23. <https://doi.org/10.37338/ji.v2i1.38>
- Ranade, S. S., 2016, Lemon grass, *International Journal of Pharmaceutical Sciences Review and Research*, 162–167.
- Riedl J, Esslinger S, Fahl-Hassek C., 2015, Review of validation and reporting of non-targeted fingerprinting approaches for food authentication, *Anal Chim Acta*, **885**, 17–32.
- Robards, K., Haddad, P. R., & Jackson, P. E., 2004, *Principles and Practice of Modern Chromatographic Methods*, 75–177, Academic Press. <https://doi.org/https://doi.org/10.1016/B978-0-08-057178-2.50006-6>
- Rodrigues K. A., Dias C. N., do Amaral F. M., Moraes D. F., Mouchrek Filho V. E., Andrade E. H., Maia J. G., 2013. Molluscicidal and larvicidal activities and essential oil composition of *Cymbopogon winterianus*, *Pharm Biol*, **51**, 1293-1297.
- Rohman, A., Windarsih, A., Hossain, M. A. M., Johan, M. R., Ali, E., & Aq, N. A. F., 2019, *Application of near- and mid-infrared spectroscopy combined with chemometrics for discrimination and authentication of herbal products : A review*. <https://doi.org/10.7324/JAPS.2018.8801>
- Ronards, K., Haddad, P. R., & Jackson, P., 2004, Principles and Practice of Modern Chromatographic Methods : Chapter 5 - High performance liquid chromatography: Instrumentation and techniques, In *Elsevier Academic Pres*, **13** (1).
- Saeidnia, S., 2014, Turpentine. *Encyclopedia of Toxicology: Third Edition*, 4, 860–865. <https://doi.org/10.1016/B978-0-12-386454-3.01034-4>
- Samuels, P., 2017, *Advice on Exploratory Factor Analysis*. Birmingham City University, Inggris.
- Sarah, M., Ardiansyah, D., Misran, E., & Madinah, I., 2023, Extraction of

- citronella oil from lemongrass (*Cymbopogon winterianus*) by sequential ultrasonic and microwave-assisted hydro-distillation. *Alexandria Engineering Journal*, **70**, 569–583. <https://doi.org/10.1016/j.aej.2023.03.019>
- Sawamura, M., & Chemat, F., 2010, Techniques for Oil Extraction. *Citrus Essential Oils: Flavor and Fragrance*, 9–36. <https://doi.org/10.1002/9780470613160.ch2>
- Shafirany, M. Z., Susilawati, Y., & Musfiroh, I., 2019, Aplikasi Kemometrik dalam Penentuan Mutu Tumbuhan Obat, *Pharmauho: Jurnal Farmasi, Sains, Dan Kesehatan*, **4**(2). <https://doi.org/10.33772/pharmauho.v4i2.6257>
- Sharma, R., Rao, R., Kumar, S., Mahant, S., & Khatkar, S., 2019, Therapeutic potential of Citronella Essential Oil: a review, *Current drug discovery technologies*. **16**(4), 330-339.
- Singh, A., & Kumar, A., 2017, Cultivation of Citronella (*Cymbopogon winterianus*) and evaluation of its essential oil, yield and chemical composition in Kannauj region, *International Journal of Biotechnology and Biochemistry*, **13**(2), 139–146. <http://www.ripublication.com>
- Small, G.W., 2006, Chemometrics and near-infrared spectroscopy: avoiding the pitfalls, *TrAC Trends Anal Chem*, **25**, 57–66.
- Syafrri, S., Jaswir, I., Yusof, F., Rohman, A., Ahda, M., & Hamidi, D., 2022, Results in Chemistry The use of instrumental technique and chemometrics for essential oil authentication : A review. *Results in Chemistry*, **4**, 100622. <https://doi.org/10.1016/j.rechem.2022.100622>
- Tambun R., Limbong, Pinem C., & Manurung E., 2017, Pengaruh Ukuran Partikel, Waktu Dan Suhu Pada Ekstraksi Fenol Dari Lengkuas Merah. *Jurnal Teknik Kimia USU*, **5**(4), 53–56. <https://doi.org/10.32734/jtk.v5i4.1555>.
- Timung, R., Barik, C. R., Purohit, S., & Goud, V. V., 2016, Composition and anti-bacterial activity analysis of citronella oil obtained by hydrodistillation: Process optimization study, *Industrial Crops and Products*, **94**, 178–188. <https://doi.org/10.1016/j.indcrop.2016.08.021>
- Tropical Plants Database, 2021, *Cymbopogon winterianus*, <https://tropical.theferns.info/viewtropical.php?id=Cymbopogon+winterianus>, diakses pada 20 September 2023 pukul 14.00 WIB.
- Virgiliou, C., Zisi, C., Kontogiannopoulos, K. N., Nakas, A., Iakovakis, A., Varsamis, V., Gika, H. G., & Assimopoulou, N., 2021, Headspace gas chromatography-mass spectrometry in the analysis of lavender 's essential oil: Optimization by response surface methodology, *Journal of Chromatography B*, **1179**, <https://doi.org/10.1016/j.jchromb.2021.122852>
- Wany, A., Jha, S., Nigam, V. K., & Pandey, D. M., 2013, Chemical Analysis And Therapeutic Uses Of Citronella Oil from *Cymbopogon Winterianus*: A Short Review, *International Journal of Advanced Research*, **1**(8), 1–6.

Wulandari, R., Harliyanto, C., & Nurlita Andiani, C., 2017, Identifikasi GC-MS Ekstrak Minyak Atsiri dari Sereh Wangi (*Cymbopogon winterianus*) Menggunakan Pelarut Metanol, *Techno (Jurnal Fakultas Teknik, Universitas Muhammadiyah Purwokerto)*, **18**(1), 23–27.