

## DAFTAR PUSTAKA

- Ayare, P., Khanvilkar, V. and Chalak, N. 2014. 'Flash Chromatography : Area & Applications', *Pharmatutor Pharmacy Infopedia*, 2(5), pp. 89–103.
- Baig, R. B. N. and Varma, R. S. 2012, 'Alternative energy input: Mechanochemical, microwave and ultrasound-assisted organic synthesis', *Chemical Society Reviews*, 41(4), pp. 1559–1584. doi: 10.1039/c1cs15204a.
- Bruice, P. Y. 2004. *Organic Chemistry Fourth Edition, Organic chemistry*. California: Prentice Hall.
- Budarin, V. L., Shuttleworth, P. S., De, Mario, Farmer, T. J., Gronnow, M. J., Pfaltzgraff, L., Macquarrie, D. J. and Clark, J. H. 2014. 'The potential of microwave technology for the recovery, synthesis and manufacturing of chemicals from bio-wastes', *Catalysis Today*. Elsevier B.V., 8803. doi: 10.1016/j.cattod.2013.11.058.
- Clayden, J., Greeves, N. and Warren, S. 2012. *Organic Chemistry*. Second Ed. Oxford University Press.
- Dąbrowska, S., Chudoba, T., Wojnarowicz, J. and Łojkowski, W. 2018. 'Current Trends in the Development of Microwave Reactors for the Synthesis of Nanomaterials in Laboratories and Industries: A Review', *Crystals*, 8(10), p. 379. doi: 10.3390/cryst8100379.
- Doss, H. M., Dey, C., Sudandiradoss, C. and Rasool, M. K. 2016. 'Targeting inflammatory mediators with ferulic acid, a dietary polyphenol, for the suppression of monosodium urate crystal-induced inflammation in rats', *Life Sciences*. Elsevier B.V., 148(1), pp. 201–210. doi: 10.1016/j.lfs.2016.02.004.
- Ekowati, J., Diah, N. W. dan Hamid, I. S. 2018. Rekayasa Struktur Senyawa Fenolik Turunan Sinamat Untuk Meningkatkan Aktivasnya sebagai Anti Platelet dan Anti Kanker. *Laporan Penelitian PUPIT*. Universitas Airlangga
- Ekowati, J., Diyah, N. W., Nofianti, K. A. and Hamid, I. S. 2018. 'Molecular Docking of Ferulic Acid Derivatives on P2Y<sub>12</sub> Receptor and their ADMET Prediction', *ITB Journal Publisher*, 50(1), pp. 1–17. doi: 10.5614/j.math.fund.sci.2018.50.X.x.

## DAFTAR PUSTAKA

- Ayare, P., Khanvilkar, V. and Chalak, N. 2014. 'Flash Chromatography : Area & Applications', *Pharmatutor Pharmacy Infopedia*, 2(5), pp. 89–103.
- Baig, R. B. N. and Varma, R. S. 2012, 'Alternative energy input: Mechanochemical, microwave and ultrasound-assisted organic synthesis', *Chemical Society Reviews*, 41(4), pp. 1559–1584. doi: 10.1039/c1cs15204a.
- Bruice, P. Y. 2004. *Organic Chemistry Fourth Edition, Organic chemistry*. California: Prentice Hall.
- Budarin, V. L., Shuttleworth, P. S., De, Mario, Farmer, T. J., Gronnow, M. J., Pfaltzgraff, L., Macquarrie, D. J. and Clark, J. H. 2014. 'The potential of microwave technology for the recovery, synthesis and manufacturing of chemicals from bio-wastes', *Catalysis Today*. Elsevier B.V., 8803. doi: 10.1016/j.cattod.2013.11.058.
- Clayden, J., Greeves, N. and Warren, S. 2012. *Organic Chemistry*. Second Ed. Oxford University Press.
- Dąbrowska, S., Chudoba, T., Wojnarowicz, J. and Łojkowski, W. 2018. 'Current Trends in the Development of Microwave Reactors for the Synthesis of Nanomaterials in Laboratories and Industries: A Review', *Crystals*, 8(10), p. 379. doi: 10.3390/cryst8100379.
- Doss, H. M., Dey, C., Sudandiradoss, C. and Rasool, M. K. 2016. 'Targeting inflammatory mediators with ferulic acid, a dietary polyphenol, for the suppression of monosodium urate crystal-induced inflammation in rats', *Life Sciences*. Elsevier B.V., 148(1), pp. 201–210. doi: 10.1016/j.lfs.2016.02.004.
- Ekowati, J., Diah, N. W. dan Hamid, I. S. 2018. Rekayasa Struktur Senyawa Fenolik Turunan Sinamat Untuk Meningkatkan Aktivasnya sebagai Anti Platelet dan Anti Kanker. *Laporan Penelitian PUPIT*. Universitas Airlangga
- Ekowati, J., Diyah, N. W., Nofianti, K. A. and Hamid, I. S. 2018. 'Molecular Docking of Ferulic Acid Derivatives on P2Y<sub>12</sub> Receptor and their ADMET Prediction', *ITB Journal Publisher*, 50(1), pp. 1–17. doi: 10.5614/j.math.fund.sci.2018.50.X.x.

- Eroğlu, C., Seçme, M., Bağcı, G. and Dodurga, Y. 2015. 'Assessment of the anticancer mechanism of ferulic acid via cell cycle and apoptotic pathways in human prostate cancer cell lines', *Tumor Biology*, 36(12), pp. 9437–9446. doi: 10.1007/s13277-015-3689-3.
- Fahrioglu, U., Dodurga, Y., Elmas, L. and Seçme, M. 2015. 'Ferulic acid decreases cell viability and colony formation while inhibiting migration of MIA PaCa-2 human pancreatic cancer cells in vitro', *Elsevier*, 576(1), pp. 476–482.
- Gawande, M. B., Shelke, S. N., Zboril, R. and Varma, R. S. 2014. 'Microwave-assisted chemistry: Synthetic applications for rapid assembly of nanomaterials and organics', *Accounts of Chemical Research*, 47(4), pp. 1338–1348. doi: 10.1021/ar400309b.
- Gilbert, J. and Martin, S. 2010. *Experimental Organic Chemistry: A Miniscale and Microscale Approach*. Fifth Edit. Texas: Brooks/Cole Cengage Learning.
- Hong, Q., Ma, Z., Huang, H., Wang, Y., Tan, H., Xiao, C., Liang, Q., Zhang, H. and Gao, Y. 2016. 'Antithrombotic activities of ferulic acid via intracellular cyclic nucleotide signaling OH H 3 CO', *European Journal of Pharmacology*. Elsevier, 777, pp. 1–8. doi: 10.1016/j.ejphar.2016.01.005.
- Isac-García, Joaquín; Dobado, José A.; Calvo-Flores, Francisco G.; Martínez-García, H. 2015. *Experimental organic chemistry*. British Library. doi: 10.1038/284090a0.
- Leonelli, C. and Veronesi, P. 2015. 'Production of Biofuels and Chemicals with Microwave', *Springer Science*, 3. doi: 10.1007/978-94-017-9612-5.
- Lichtenstein, D. R. 2016. 'When to stop, how to reverse, and when to restart antithrombotic drugs periendoscopically in nonvariceal upper gastrointestinal bleeding', *Techniques in Gastrointestinal Endoscopy*. Elsevier, 18(4), pp. 177–186. doi: 10.1016/j.tgie.2016.12.011.
- Lu, G. H., Chan, K., Leung, K., Chan, C. L., Zhao, Z. Z. and Jiang, Z. H. 2005. 'Assay of free ferulic acid and total ferulic acid for quality assessment of *Angelica sinensis*', *Journal of Chromatography A*, 1068(2), pp. 209–219. doi: 10.1016/j.chroma.2005.01.082.
- Maksimenco, S. I. *et al.* 2007. 'Synthesis and Mesomorphic Properties of Esters Derived from Alkanediols', *Russian Journal of Organic*

*Chemistry*, 43(12), pp. 1773–1780. doi: 10.1134/S1070428007120068.

Mancuso, C. and Santangelo, R. 2014. ‘Ferulic acid : Pharmacological and toxicological aspects’, *Food and Chemical Toxicology*. Elsevier Ltd, 65, pp. 185–195. doi: 10.1016/j.fct.2013.12.024.

Maurya, D. K. and Devasagayam, T. P. A. 2010. ‘Antioxidant and prooxidant nature of hydroxycinnamic acid derivatives ferulic and caffeic acids’, *Food and Chemical Toxicology*. Elsevier Ltd, 48(12), pp. 3369–3373. doi: 10.1016/j.fct.2010.09.006.

McMurry, J. (2015) *Organic Chemistry Ninth Edition, Organic Chemistry Ninth Edition*. Boston Cengage Learning.

Merkl, R., Hrádková, I., Filip, V. and Šmidrkal, J. 2010. ‘Antimicrobial and antioxidant properties of phenolic acids alkyl esters’, *Czech Journal of Food Sciences*, 28(4), pp. 275–279. doi: 10.2991/jnmp.2008.15.3.3.

Mumtaza, I. 2018. *Pengaruh Katalis Piridin dan Trietilamin (TEA) pada Sintesis Asam 4-Benzoiloksi-3-Metoksisinamat Melalui Metode Iradiasi Gelombang Mikro*. Skripsi, Fakultas Farmasi Universitas Airlangga. Surabaya: Departemen Kimia Farmasi.

Ou, S. and Kwok, K. 2004. ‘Ferulic acid : pharmaceutical functions , preparation and applications in foods’, *Journal of the Science of Food and Agriculture*, 1269(November 2003), pp. 1261–1269. doi: 10.1002/jsfa.1873.

de Paiva, L. B., Goldbeck, R., dos Santos, W. D. and Squina, F. M. 2013. ‘Ferulic acid and derivatives: Molecules with potential application in the pharmaceutical field’, *Brazilian Journal of Pharmaceutical Sciences*, 49(3), pp. 395–411. doi: 10.1590/S1984-82502013000300002.

Prieto, P. 2018. ‘A Critical Overview on the Effect of Microwave Irradiation in Organic Synthesis’, *The Chemical Record*, pp. 1–14. doi: 10.1002/tcr.201800059.

Sajjadi, S. E., Shokoohinia, Y. and Moayedi, N. S. 2012. ‘Isolation and identification of ferulic acid from aerial parts of *kelussia odoratissima mozaff*’, *Jundishapur Journal of Natural Pharmaceutical Products*, 7(4), pp. 159–162. doi: 10.5812/jjnpp.4861.

- Sánchez-Maldonado, A. F., Schieber, A. and Gänzle, M. G. 2011. 'Structure-function relationships of the antibacterial activity of phenolic acids and their metabolism by lactic acid bacteria', *Journal of Applied Microbiology*, 111(5), pp. 1176–1184. doi: 10.1111/j.1365-2672.2011.05141.x.
- Siswandono. 2016. *Kimia Medisinal*, Edisi Kedua. Surabaya: Airlangga University Press.
- Solomons, T. W. G. and Fryhle, C. B. 2011. *Organic Chemistry 10th edition*. John Wiley & Sons, Inc.
- Stevens, W. C. and Daniel, J. 2009. 'General methods for flash chromatography using disposable columns', *Springer Science*, 13(1), pp. 247–252. doi: 10.1007/s11030-008-9104-x.
- Surati, M. A., Jauhari, S. and Desai, K. R. 2012. 'A brief review: Microwave assisted organic reaction', *Archives of Applied Science Research*, 4(1), pp. 645–661.
- Taylor, P., Novikova, N. S., Gorecka, E., Kondratyeva, R. V. and Kilimenchuk, E. D. 2008. 'New bent - shaped liquid crystalline derivatives of 2 , 7 - dihydroxynaphthalene containing lateral bromine atoms', *Liquid Crystals*, 35(6), pp. 37–41. doi: 10.1080/02678290802120885.
- World Health Organization (WHO). 2014. *Noncommunicable Diseases (NCD) Country Profiles*. Geneva: World Health Organization.
- Zhu, H., Liang, Q. H., Xiong, X. G., Chen, J., Wu, D., Wang, Y., Yang, B., Zhang, Y., Zhang, Y. and Huang, X. 2014. 'Anti-inflammatory effects of the bioactive compound ferulic acid contained in oldenlandia diffusa on collagen-induced arthritis in rats', *Evidence-based Complementary and Alternative Medicine*, 2014(10). doi: 10.1155/2014/573801.