

## DAFTAR PUSTAKA

- Adefegha, S.A., Oboh, G., and Oluokun, A.A. 2022, Chapter 11 - Food bioactives: the food image behind the curtain of health promotion and prevention against several degenerative diseases, *Studies in Natural Products Chemistry, Elsevier*, Volume 72, 2022, Pages 391-421, ISSN 1572-5995, ISBN 9780128239445, <https://doi.org/10.1016/B978-0-12-823944-5.00012-0>.
- Akata, I., Torlak, E., Erci, F. 2015, Efficacy of gaseous ozone for reducing microflora and foodborne pathogens on button mushroom. *Postharvest Biology and Technology*. 109. 10.1016/j.postharvbio.2015.06.008.
- Ali, E. M., and Abdallah, B. M.. 2024, The potential use of ozone as antifungal and antiaflatoxigenic agent in nuts and its effect on nutritional quality. *Brazilian Journal of Biology*, 84, e263814. <https://doi.org/10.1590/1519-6984.263814>
- Bialka, K.I. and Demirci, A. 2007, Utilization of Gaseous Ozone for the Decontamination of *Escherichia coli* O157:H7 and *Salmonella* on Raspberries and Strawberries. *Journal of Food Protection*, Vol. 70, No. 5, 2007, Pages 1093–1098.
- BPOM RI. 2019, *Peraturan Badan Pengawas Obat Dan Makanan Nomor 32 Tahun 2019 tentang Persyaratan Keamanan dan Mutu Obat Tradisional*, Jakarta, Badan Pengawas Obat dan Makanan Republik Indonesia.
- Cabello, J.R., Serrano, S., Rodriguez, I., García-Valcárcel, A.I., Hernando, M.D., Flores, J.M. 2021, Microbial Decontamination of Bee Pollen by Direct Ozone Exposure. *Foods*, 10, 2593. <https://doi.org/10.3390/foods10112593>.
- Calogirou, A., Larsen, B.R., Brussol, C., Duane, M. and Kotzias, M. 1996, *Analytical Chemistry* 68 (9), 1499-1506 DOI: 10.1021/ac950803i.
- Chao, W. W., and Lin, B. F. 2010, Isolation and identification of bioactive compounds in *Andrographis paniculata* (Burm.f.) Nees (Chuanxinlian). *Chinese medicine*, 5, 17. <https://doi.org/10.1186/1749-8546-5-17>.
- Chatterjee, A. and Abraham, J. 2018, Microbial Contamination, Prevention, and Early Detection in Food Industry. *Microbial Contamination and Food Degradation*, 21–47. doi:10.1016/b978-0-12-811515-2.00002-0.
- Cristiano, Luigi. 2020, Could ozone be an effective disinfection measure against the novel coronavirus (SARS-CoV-2)? *Journal of preventive medicine and hygiene* vol. 61,3 E301-E303. DOI:10.15167/2421-4248/jpmh2020.61.3.1596.

- Coskun, O. 2016, Separation techniques: Chromatography. North Clin Istanb. 2016 Nov 11;3(2):156-160. doi: 10.14744/nci.2016.32757. PMID: 28058406; PMCID: PMC5206469.
- Cullen, P.J., Tiwari, B.K., O'Donnell, C.P., Muthukumarappan, K. 2009, Modelling approaches to ozone processing of liquid foods. *Trends in Food Science & Technology*. 20. 125-136. 10.1016/j.tifs.2009.01.049.
- Dyakov, Y. T., and Ozeretskovskaya, O. L., 2007. *Vertical pathosystem: avirulence genes and their products. Comprehensive and Molecular Phytopathology*, 181–215. doi:10.1016/b978-044452132-3/50011-0
- El-Zaidy, M., Almusalim, A., Alsahli, A., Doaigey, A., Yakout, S.M., Arif, I.A., Saleh, I.A.S., Shair, O. 2020, Effects of ozone on cell organelles of alfalfa (*Medicago sativa* L.) seedlings, *Saudi Journal of Biological Sciences*, Volume 27, Issue 1, Pages 60-66, ISSN 1319-562X, <https://doi.org/10.1016/j.sjbs.2019.04.018>.
- Epelle, E.I, Macfarlane, A., Cusack, M., Burns, A., Thissera, B., Mackay, W., Rateb, M.E., Yaseen, M. 2022, Bacterial and fungal disinfection via ozonation in air, *Journal of Microbiological Methods*, Volume 194, 2022, 106431, ISSN 0167-7012, <https://doi.org/10.1016/j.mimet.2022.106431>.
- Epelle, E.I., Macfarlane, A., Cusack, M., Burns, A., Okolie, J.A., Mackay, W., Rateb, M., Yaseen, M. 2023, Ozone application in different industries: A review of recent developments, *Chemical Engineering Journal*, Volume 454, Part 2, 2023, 140188, ISSN 1385 8947, <https://doi.org/10.1016/j.cej.2022.140188>.
- Farajzadeh D., Qorbanpoor A., Rafati H., Isfeedvajani M.S. 2013, Reduction of date microbial load with ozone. *Journal of Research in Medical Sciences* 2013; 18:330-34.
- Fardiaz, Srikandi. 1992, *Mikrobiologi Pangan*. PT. Gramedia. Jakarta.
- Gandjar, I. G. and Rohman, A. 2007, *Kimia Farmasi Analisis*. Pustaka Pelajar. Yogyakarta.
- Ginting, D., Santosa, I., Trigunarso, S. 2022, *Jurnal Analis Kesehatan* : Volume 11, Nomor 1, Juni 2022. DOI:10.30821/kfl:jibt.v1i2.1598.
- Hanson, James. (2017). The Ozonolysis of Terpenoids, a Pandora's Box of by-Products. *Journal of Chemical Research*. 41. 557-563. 10.3184/174751917X15064232103029.

- Hariati, S., 2014, 'Analisis *Chromatographic Fingerprint* Ekstrak Dan Produk Temulawak (*Curcuma xanthorrhiza* Roxb) Menggunakan GC-MS (*Gas Chromatography-Mass Spectrometry*)', *Skripsi*, S.Farm, Fakultas Farmasi, Skripsi, Universitas Muhamadiyah Surakarta. Solo.
- Henkey. 1997, Pengaruh lama perendaman dalam berbagai konsentrasi larutan kaporit dan larutan hidrogen peroksida terhadap mutu mikrobiologis simplisia akar pule pandak (*Rauwolfia Serpentina* (L) Benth ex Kurz). *Skripsi*, S.Farm, Fakultas Farmasi, Universitas Katolik Widya Mandala, Surabaya.
- Heryani, A.N. 2012, 'Studi Viabilitas dan Pola Pertumbuhan *Bacillus megaterium* pada Konsentrasi Molase dan Waktu Inkubasi yang Berbeda.', *Skripsi*, S.Farm, Fakultas Farmasi, Universitas Airlangga, Surabaya.
- Hutasuhut, M.A. 2018, Keanekaragaman Tumbuhan Herba di Cagar Alam Sibolangit, *Klorofil*. Vol. 1 No. 2, 2018: 69-77.
- Kemenkes. 2017, *Farmakope Herbal Indonesia*. Edisi II. Jakarta, Kementerian Kesehatan Republik Indonesia.
- Jati, S. P. 2023, 'Efektivitas Metode Dekontaminasi Cemaran Mikroba Menggunakan Ozon Dan Pengaruhnya Terhadap Kadar Zat Aktif Dan Aktivitas Penangkapan Radikal Bebas Simplisia Rimpang Kunyit (*Curcuma longa* L.)', *Skripsi*, *Skripsi*, S.Farm, Fakultas Farmasi, Skripsi, Universitas Gadjah Mada. Yogyakarta.
- Jiang, M., Sheng, F., Zhang, Z, Ma, X., Gao, T., Fu, C., Li, P. 2021, *Andrographis paniculata* (Burm.f.) Nees (Burm.f.) Nees and its major constituent andrographolide as potential antiviral agents. *J Ethnopharmacol*. 2021 May 23;272:113954. doi: 10.1016/j.jep.2021.113954. Epub 2021 Feb 18. PMID: 33610706.
- Kealey, D. and Haines, P.J. 2002, *Instant Notes: Analytical Chemistry*. BIOS. Scientific Publisher Limited. Oxford.
- Khadre, M.A and Yousef, A.E. 2001, Sporicidal action of ozone and hydrogen peroxide: a comparative study, *International Journal of Food Microbiology*, Volume 71, Issues 2–3, 2001, Pages 131-138, ISSN 0168-1605, [https://doi.org/10.1016/S0168-1605\(01\)00561-X](https://doi.org/10.1016/S0168-1605(01)00561-X).
- Khadre, M. A., Yousef, A. E., Kim, J.-G. 2001, Microbiological Aspects of Ozone Applications in Food: A Review. *Journal of Food Science*, 66(9), 1242–1252. doi:10.1111/j.1365-2621.2001.tb15196.

- Kumar, S., Singh, B., and Bajpai, V. 2021, *Andrographis paniculata* (Burm.f.) Nees: Traditional uses, phytochemistry, pharmacological properties and quality control/quality assurance. *Journal of Ethnopharmacology*, 275, 114054. doi:10.1016/j.jep.2021.114054.
- LaCourse, M. E. and LaCourse, W. R. 2017, General instrumentation in *HPLC. Liquid Chromatography*, 417–429. doi:10.1016/b978-0-12-805393-5.00017-8.
- Markham, K.R. 1988, Cara Mengidentifikasi Flavonoid, diterjemahkan oleh Kosasih Padmawinata, Penerbit ITB, Bandung.
- Praveen, N., Naik, P.M., and Nayeem, A. 2014, *Mapana Journal of Sciences*; Bengaluru Vol. 13, ISSN. 4, : 33-46. DOI:10.12723/mjs.31.4.
- Onopiuk, A.; Szpicer, A.; Wojtasik-Kalinowska, I.; Wierzbicka, A.; Póltorak, A. Impact of Ozonisation Time and Dose on Health Related and Microbiological Properties of Rapanui Tomatoes. *Agriculture* 2021, 11, 428. <https://doi.org/10.3390/agriculture11050428>.
- Prakoso, T.A.D. 2010, ‘Perbandingan Angka Kapang Khamir (AKK) Rimpang Segar Temulawak, Serbuk Temulawak, dan Ekstrak Etanolik Rimpang Temulawak (*Curcuma xanthorrhiza* Roxb)’, *Skripsi*, S.Farm, Fakultas Farmasi, Skripsi, Universitas Sanata Dharma, Yogyakarta
- Ratnani, R.D., Hartati, I., and Kurniasari. 2012, Potensi Produksi Andrographolide Dari Sambiloto (*Andrographis paniculata* (Burm.f.) Nees) Melalui Proses Ekstraksi Hidrotropi. *Momentum*, Vol. 8, No. 1, April 2012 : 6- 10. DOI:10.36499/jim.v8i1.279
- Rice, R.G. and Graham, D.M. 2001, US FDA regulatory approval of ozone as an antimicrobial agent–what is allowed and what needs to be understood. *Ozone News* 2001, 29, 22–31.
- Sachadyn-Król, M. and Agriopoulou, S. 2020, Ozonation as a Method of Abiotic Elicitation Improving the Health-Promoting Properties of Plant Products—A Review. *Molecules* 2020, 25, 2416. <https://doi.org/10.3390/molecules25102416>.
- Savi, G. D. and Scussel, V. M. 2014, Effects of Ozone Gas Exposure on Toxigenic Fungi Species from Fusarium, Aspergillus, and Penicillium Genera. *Ozone: Science Engineering*, 36(2), 144–152. <https://doi.org/10.1080/01919512.2013.846824>.

- Silverstein, R. M., Bassler, G.C. and Morrill, T.C, 1986. *Spectrometric Identification of Organic Compounds*, Fourth Edition diterjemahkan oleh Hartono A.B. Penerbit Erlangga, Jakarta
- Sundari, S. and Fadhliani. 2019, Uji Angka Lempeng Total (ALT) pada Sediaan Kosmetik Lotion X di BBPOM Medan. *Jurnal Biologica Samudra 1* (1): 25-33 (2019).
- Warditiani, N.K., Widjaja, I.N.K., and Noviyanti, N. W. R. 2014, Penetapan Kadar Andrografolid dalam Isolat dari Sambiloto dengan KLT-Spektrofotodensitometri. *Jurnal Farmasi Udayana*.
- Wen, G., Liang, Z., Xu, X., Cao, R., Wan, Q., Ji, G., Lin, W., Wang, J., Yang, J., Huang, T. 2020, Inactivation of fungal spores in water using ozone: Kinetics, influencing factors and mechanisms, *Water Research*, Volume 185, 116218, ISSN 0043-1354, <https://doi.org/10.1016/j.watres.2020.116218>.
- WFO. 2023, *Andrographis paniculata* (Burm.f.) Nees (Burm.f.) Nees. Published on the Internet; <http://www.worldfloraonline.org/taxon/wfo-0000534069>. Accessed on: 29 Dec 2023.
- William, D.M. and Fleming, I. 1995, *Spectroscopic Methods in Organic Chemistry 5th ed*, Tata McGraw-Hill, New York.
- Wink, Michael. 2010, Biochemistry of Plant Secondary Metabolism, *Annual Plant Reviews, Volume 40*, Second Edition, Wiley-Blackwell.
- Wulandari, L. 2011, *Kromatografi Lapis Tipis*. Jember. PT. Taman Kampus Presindo. ISBN : 978-979-17068-1-0.
- Xue, W.; Macleod, J.; Blaxland, J. 2023, The Use of Ozone Technology to Control Microorganism Growth, Enhance Food Safety and Extend Shelf Life: A Promising Food Decontamination Technology. *Foods*, 12, 814. <https://doi.org/10.3390/foods12040814>