

References

- Ajami, S., & Nemati Shahpar, M. (2016). Alzheimer disease national registry system in prevention and treatment management. *Journal of Bioengineering & Biomedical Science*, 6(3). <https://doi.org/10.4172/2155-9538.1000188>
- Alfian, R., & Susanti, H. (2012). Penetapan Kadar Fenolik total EKSTRAK metanol KELOPAK bunga Rosella Merah (*Hibiscus Sabdariffa* Linn) Dengan Variasi tempat tumbuh Secara Spektrofotometri. *Pharmaciana*, 2(1). <https://doi.org/10.12928/pharmaciana.v2i1.655>
- Allen, L. V., & Ansel, H. C. (2014). Ansel's Pharmaceutical dosage forms and drug delivery systems. In *Journal of Chemical Information and Modeling* (Vol. 53, Issue 9), 1-809. <https://doi.org/10.1017/CBO9781107415324.004>
- Amidon, G.E. (2009). Citric Acid Monohydrate In Rowe, R.C., Sheskey, P.J., and Quinn, M.E., (Eds.), *Handbook of Pharmaceutical Excipients*, Pharmaceutical Press And American Pharmacist Association, UK, 181-183
- Andres, S., Pevny, S., Ziegenhagen, R., Bakhiya, N., Schafer, B., Hirsch-Ernst, K.I., et al. (2018). Safety aspects of the use of quercetin as a dietary supplement. *Mol. Nutr. Food Res.* 62:1700447. doi: 10.1002/mnfr.201700447
- Ansel, H. C. (1989). *Pengantar Bentuk Sediaan Farmasi (Terjemahan) Farida Ibrahim, Edisi Empat. Jakarta: UI Press. hal, 282, 224-225.*
- Anshory, H., Syukri, Y., & Malasari, Y. (2007). Formulasi tablet effervescent dari ekstrak ginseng jawa (*Tlinum paniculatum*) dengan Variasi Kadar Pemanis Aspartam. *Jurnal Ilmiah Farmasi*, 4(1), 43-48.
- Apsari, P.D., & Susanti, H. (2011). Perbandingan Kadar Fenolik Total Ekstrak Metanol Kelopak Merah dan Ungu Bunga Rosella (*Hibiscus sabdariffa*, Linn) Secara Spektrofotometri. ISBN: 978-979-18458-4- 7.
- Aryal, S., Baniya, M. K., Danekhu, K., Kunwar, P., Gurung, R., & Koirala, N. (2019). Total Phenolic Content, Flavonoid Content and Antioxidant Potential of Wild Vegetables from Western Nepal. *Plants (Basel, Switzerland)*, 8(4), 96. <https://doi.org/10.3390/plants8040096>
- Aslani, A., & Fattahi, F. (2013). Formulation, characterization and physicochemical evaluation of potassium citrate effervescent tablets. *Advanced Pharmaceutical Bulletin*, 3(1), 217–225. <https://doi.org/10.5681/apb.2013.036>
- Augsburger, L. L., & Hoag, S. W. (2008). *Pharmaceutical Dosage Forms - Tablets*. In *Pharmaceutical Dosage Forms: Tablets* (Vol. 2, p. 570). <https://doi.org/10.3109/9781420020298>
- Ayucitra, A., Indraswati, N., Francisco, G., & Yudha, A. (2013). Potential of natural phenolic compounds as natural antioxidants for vegetable cooking oil. *Widya Teknik*, 10(1), 1-10.
- Azizah, B., & Nina, S. (2014). *Standarisasi parameter non spesifik dan perbandingan kadar kurkumin ekstrak etanol dan ekstrak terpurifikasi rimpang kunyit. (Skripsi). Yogyakarta: Fakultas Farmasi Universitas Ahmad Dahlan.*
- Baliyan, S., Mukherjee, R., Priyadarshini, A., Vibhuti, A., Gupta, A., Pandey, R. P., & Chang, C. M. (2022). Determination of Antioxidants by DPPH Radical Scavenging Activity and Quantitative

- Phytochemical Analysis of *Ficus religiosa*. *Molecules (Basel, Switzerland)*, 27(4), 1326. <https://doi.org/10.3390/molecules27041326>
- Baram, M., & Miller, Y. (2020). Inhibitory Activity of Insulin on A β Aggregation Is Restricted Due to Binding Selectivity and Specificity to Polymorphic A β States. *ACS chemical neuroscience*, 11(3), 445–452. <https://doi.org/10.1021/acscemneuro.9b00645>
- Bernal, M., Llorens, L., Julkunen-Tiitto, R., Badosa, J., & Verdaguer, D. (2013). Altitudinal and seasonal changes of phenolic compounds in *Buxus sempervirens* leaves and cuticles. *Plant Physiology and Biochemistry*, 70, 471–482. doi:10.1016/j.plaphy.2013.06.012
- Bewick, V., Cheek, L. and Ball, J. (2004) *Critical Care*, 8(2), p. 130. doi:10.1186/cc2836.
- Borges, L., Alves, S., Sampaio, B., Conceição, E., F. Bara, M., & Paula, J. (2013). Environmental factors affecting the concentration of phenolic compounds in *Myrcia tomentosa* leaves. *Revista Brasileira De Farmacognosia*, 23(2), 230-238. doi: 10.1590/s0102-695x2013005000019
- Burda, S., & Oleszek, W. (2001). Antioxidant and antiradical activities of flavonoids. *Journal of Agricultural and Food Chemistry*, 49(6), 2774–2779. <https://doi.org/10.1021/jf001413m>
- Chin-Chan, M., Navarro-Yepes, J., & Quintanilla-Vega, B. (2015). Environmental pollutants as risk factors for neurodegenerative disorders: Alzheimer and Parkinson diseases. *Frontiers in cellular neuroscience*, 9, 124.
- Costa, D. C., Costa, H. S., Albuquerque, T. G., Ramos, F., Castilho, M. C., & Sanches-Silva, A. (2015). Advances in phenolic compounds analysis of aromatic plants and their potential applications. *Trends in Food Science & Technology*, 45(2), 336-354.
- Costantini, D & Verhulst, S. (2009). 'Does high antioxidant capacity indicate low oxidative stress?', *Functional Ecology*, vol. 23, no. 3, pp. 506-509.
- Crouter, A., & Briens, L. (2013). Pengaruh kelembaban pada flowabilitas eksipien farmasi. *AAPS PharmSciTech*, 15(1), 65–74. <https://doi.org/10.1208/s12249-013-0036-0>
- David, F. R. (2002). *Manajemen Strategi: Konsep, Edisi Ketujuh*. Jakarta: PT. Prenhallindo. H.
- El-Abbassi A., Kiai H., Raiti J., Hafidi A. (2014). Cloud point extraction of phenolic compounds from pretreated olive mill wastewater. *J. Environ. Chem. Eng.* 2,1480–1486. 10.1016/j.jece.2014.06.024
- Egeten, K. R., Yamlean, P. V. & Supriati, H. S. (2016). Formulasi dan Pengujian Sediaan Granul Effervescent Sari Buah Nanas. *Pharmacon Jurnal Ilmiah Farmasi*, Volume 5(3), p. 118
- Fadillah, A., Rahmadani, A., & Rijai, L. (2017). Analisis Kadar Total Flavonoid dan Uji Aktivitas Antioksidan Ekstrak Daun Kelubut (*Passiflora foetida* L.). *Proceeding of Mulawarman Pharmaceuticals Conferences*, 5(1), 21–28. <https://doi.org/10.25026/mpc.v5i1.217>
- Fudholi, A. (2013). *Disolusi dan pelepasan obat in vitro*. Yogyakarta: Pustaka Pelajar.
- Fung, K.Y. and King, N.M., (2003). *Product-Centered Processing: Pharmaceutical Tablets and Capsules*. J. AIChE Vol 49 (5) 1193 – 1218. Proquest online. <http://gateway.proquest.com>.
- Ganesh Chandra, L. S. (2014). Phytochemical screening of certain medicinal plants of Mizoram, India and their folklore use. *Journal of Biodiversity, Bioprospecting and Development*, 02(01).

<https://doi.org/10.4172/2376-0214.1000136>

- Gärtner, E., Jung, H. Y., Peter, N. J., Dehm, G., Jägle, E. A., Uhlenwinkel, V., & Mädler, L. (2021). Reducing cohesion of metal powders for additive manufacturing by nanoparticle dry-coating. *Powder Technology*, 379, 585-595.
- Geuns, J.M.C. (2003). Molecules of Interest: Stevioside. *Phytochemistry*, 64, 913-921. [http://dx.doi.org/10.1016/S0031-9422\(03\)00426-6](http://dx.doi.org/10.1016/S0031-9422(03)00426-6).
- Geranpour, M., Assadpour, E., & Jafari, S. M. (2020). Recent advances in the spray drying encapsulation of essential fatty acids and functional oils. *Trends in Food Science & Technology*, 102, 71–90. <https://doi.org/10.1016/j.tifs.2020.05.028>
- Giyatmi, & Lingga, D. K. (2019). The effect of citric acid and sodium bicarbonate concentration on the quality of effervescent of red ginger extract. *IOP Conference Series: Earth and Environmental Science*, 383(1), 012022. <https://doi.org/10.1088/1755-1315/383/1/012022>
- Gortzi O., Lolas S., Chatzilazarou A., Katsoyannos E., Papaconstantinou S., Dourtoglou E. (2008). Recovery of natural antioxidants from olive mill waste water using Genapol-X080. *J. Am. Oil Chem. Soc.* 85, 133–140. 10.1007/s11746-007-1180-z
- Grajang, I. B., & Wahyuningsih, I. (2019). Formulation of Sechium edule Extract Effervescent Granule with the Variation of Citric Acid, Tartrate Acid and Sodium Bicarbonate. Proceedings of the 1st Muhammadiyah International Conference on Health and Pharmaceutical Development, 54–60. <https://doi.org/10.5220/0008239300540060> Herlina, Kuswardhani, N., Belgis, M., & Tiara, A. (2020). Characterizati
- Greenland S, Senn SJ, Rothman KJ, et al. (2016) Statistical tests, P values, confidence intervals, and power: a guide to misinterpretations. *European Journal of Epidemiology* 31: 337–350.
- H, V., D, U., P, A., T, A., & S, I. (2021). Comparative lcms analysis of the metabolite profile of Coriandrum sativum, mentha piperita and eucalyptus citriodora. *International Journal of Biology, Pharmacy and Allied Sciences*, 10(9). <https://doi.org/10.31032/ijbpas/2021/10.9.1029>
- Hadipoentyanti, E., & Wahyuni, S. (2017). Pengelompokan Kultivar Ketumbar Berdasar Sifat Morfologi. *Buletin Plasma Nutfah*, 10(1), 32. <https://doi.org/10.21082/blpn.v10n1.2004.p32-36>
- Hamaguchi, T., Ono, K., Murase, A., & Yamada, M. (2009). Phenolic compounds prevent Alzheimer's pathology through different effects on the amyloid-beta aggregation pathway. *The American journal of pathology*, 175(6), 2557–2565. <https://doi.org/10.2353/ajpath.2009.090417>
- Hatami, T., Emami, S. A., Miraghaee, S. S., & Mojarrab, M. (2014). Total Phenolic Contents and Antioxidant Activities of Different Extracts and Fractions from the Aerial Parts of Artemisia biennis Willd. *Iranian journal of pharmaceutical research : IJPR*, 13(2), 551–559.
- Houghton, J. D., & Forbes, H. G. A. (1996). *Natural Food Colorants*. Blackie academic & professional.
- Imaryana, I., Mardesci, H., & Ninsix, R. (2016). Formulasi Pati Jagung (Zea mays L) dengan tepung tapioka TERHADAP Sifat fisikokimia bakso ikan gabus (ophiocephalus striatus). *JURNAL TEKNOLOGI PERTANIAN*, 5(2), 47–53. <https://doi.org/10.32520/jtp.v5i2.95>

- Iwayan Wiraatmaja. (2017). *Metabolisme Pada Tumbuhan*. Denpasar:UNUD.
- Jangra, S. S., Madan, V. K., & Singh, I. (2018). Comparative Analysis of Phytochemical Profile and Antioxidant Activity of Coriander (*Coriandrum sativum* L.). *Asian Journal of Chemistry*, 30(3).
- Jasdeep & Jain, K. S. (2022). Studies on Drying of Coriander Leaves. *International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)*. DOI:10.15680/IJIRSET.2022.1107110
- Jasira, M., Sailesh, K. S., & Mukkadan, J. (2017). Effect of oral administration of coriander extract on memory boosting & regaining in wistar albino rats. *KYAMC Journal*, 4(2), 398–401. <https://doi.org/10.3329/kyamcj.v4i2.32278>
- Jones, R. B. (2007). Effects of postharvest handling conditions and cooking on anthocyanin, lycopene, and glucosinolate content and bioavailability in fruits and vegetables. *New Zealand Journal of Crop and Horticultural Science*, 35(2), 219–227. <https://doi.org/10.1080/01140670709510188>
- John, O. O., Amarachi, I. S., Chinazom, A. P., Adaeze, E., Kale, M. B., Umare, M. D., & Upaganlawar, A. B. (2022). Phytotherapy: A promising approach for the treatment of Alzheimer's disease. *Pharmacological Research-Modern Chinese Medicine*, 2, 100030.
- Joshi, T., Deepa, P. R., & Sharma, P. K. (2022). Effect of different proportions of phenolics on antioxidant potential: Pointers for bioactive Synergy/Antagonism in foods and nutraceuticals. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 92(4), 939-946.
- Jumiarni, W. O., & Komalasari, O. (2017). Inventory of medicines plant as utilized by Muna tribe in Kota Wuna Settlement. *Majalah Obat Tradisional*, 22(1), 45. <https://doi.org/10.22146/tradmedj.24314>
- Jung, H., Lee, Y. J., & Yoon, W. B. (2018). Effect of moisture content on the grinding process and powder properties in food: A review. *Processes*, 6(6), 6–10. <https://doi.org/10.3390/pr6060069>
- Kabtni, S., Sdouga, D., Bettaib Rebey, I. et al. (2020). Influence of climate variation on phenolic composition and antioxidant capacity of *Medicago minima* populations. *Sci Rep* 10, 8293. <https://doi.org/10.1038/s41598-020-65160-4>
- Kailaku, S. I. dan Sumangat, J. (2012) 'Formulasi Granul Efervesen Kaya Antioksidan dari Ekstrak Daun Gambir', *Formulasi Granul Efervesen Kaya Antioksidan dari Ekstrak Daun Gambir*, 9(1), pp. 27–34. doi: 10.21082/jpasca.v9n1.2012.27-34.
- Kalaria, R. N., Maestre, G. E., Arizaga, R., Friedland, R. P., Galasko, D., Hall, K., Luchsinger, J. A., Ogunniyi, A., Perry, E. K., Potocnik, F., Prince, M., Stewart, R., Wimo, A., Zhang, Z.-X., & Antuono, P. (2008). Alzheimer's disease and vascular dementia in developing countries: Prevalence, management, and risk factors. *The Lancet Neurology*, 7(9), 812–826. [https://doi.org/10.1016/s1474-4422\(08\)70169-8](https://doi.org/10.1016/s1474-4422(08)70169-8)
- Kamal, S., & Sharad, W. (2018). Step-up in liquid chromatography from HPLC to UPLC: a comparative and comprehensive review. *J. Pharm. Innov*, 7, 342-347.
- Kawijia, K., Atmaka, W., & Lestariana, S. (2017a). Study of characteristics whole cassava starch based edible film with citric acid cross-linking modification. *Jurnal Teknologi Pertanian*, 18(2),

143–152. <https://doi.org/10.21776/ub.jtp.2017.018.02.14>

- Khandelwal, P., & Shah, P. (2016). Formulation and evaluation of oral herbal granules for asthma. *International Journal of Pharma Sciences and Research*, 7(10), 382–389. <http://www.ijpsr.info/docs/IJPSR16-07-10-011.pdf>.
- Kumar, B. R. (2017). Application of HPLC and ESI-MS techniques in the analysis of phenolic acids and flavonoids from green leafy vegetables (glvs). *Journal of Pharmaceutical Analysis*, 7(6), 349–364. <https://doi.org/10.1016/j.jpha.2017.06.005>
- Kumar, S., & Pandey, A. K. (2013). Chemistry and biological activities of flavonoids: an overview. *TheScientificWorldJournal*, 2013, 162750. <https://doi.org/10.1155/2013/162750>
- Kumar, A., Sidhu, J., Goyal, A., & Tsao, J. (2022). Alzheimer Disease. Retrieved November 23, 2022, from <https://www.ncbi.nlm.nih.gov/books/NBK499922/>
- Kurakula, M., & Rao, G. S. N. K. (2020). Pharmaceutical assessment of polyvinylpyrrolidone (PVP): As excipient from conventional to controlled delivery systems with a spotlight on COVID-19 inhibition. *Journal of Drug Delivery Science and Technology*, 60, 102046. <https://doi.org/10.1016/j.jddst.2020.102046>
- Kusnadi, F.F. (2003). *Formulasi Produk Minuman Instan Lingzhi – Jahe. Effervescent*. Skripsi. Fakultas Teknologi Pertanian. IPB. Bogor. Lawrie, R. A. 2003.
- Kusuma, A. T., Adelah, A., Abidin, Z., & Najib, A. (2018). penentuan kadar flavonoid ekstrak etil asetat daun sukun (*Artocarpus altilis*). *ad-Dawaa'Journal of Pharmaceutical Sciences*, 1(1).
- Lachman, L., Liberman, H. and., Kanig, J. (1986). *The Theory and Practice of Industrial Pharmacy*; Third Edition, Lea & Febiger, Philadelphia.
- Lachman L., H. Lieberman, and J. Kanig, L. (1989). *Teori dan Praktek Farmasi. Industri, Terjemahan: Siti Suyatmi, Jilid II Edisi 3, UI Press: Jakarta, 74- 75.*
- Lessa, O. A., Reis, N. dos S., Leite, S. G. F., Gutarra, M. L. E., Souza, A. O., Gualberto, S. A., et al. (2017). Effect of the solid state fermentation of cocoa shell on the secondary metabolites, antioxidant activity, and fatty acids. *Food Science and Biotechnology*, 27(1), 107–113. doi:10.1007/s10068-017-0196-x
- Li, Y., Yao, J., Han, C., Yang, J., Chaudhry, M. T., Wang, S., ... & Yin, Y. (2016). Quercetin, inflammation and immunity. *Nutrients*, 8(3), 167.]
- Li, Y., Yang, Q., Liu, B., Liu, Y., Zhang, Q., Li, S., & Zhao, X. (2022). Simultaneous extraction of flavonoid glycosides and flavonoid aglycones from discarded apple branches by enzyme-assisted micelle-mediated extraction with Cloud Point Enrichment Method. *Food and Bioprocess Technology*, 16(4), 857–869. <https://doi.org/10.1007/s11947-022-02973-3>
- Lim, K. S., Fu, N., Xiao, J., Chen, X. D., Selomulya, C., & Woo, M. W. (2022). Understanding the formation of ultrafine maltodextrin particles under simultaneous convective drying and antisolvent vapour precipitation. *Advanced Powder Technology*, 33(3), 103440
- Liu, C., Bonaccorso, E., & Butt, H.-J. (2008). Evaporation of sessile water/ethanol drops in a controlled environment. *Physical Chemistry Chemical Physics*, 10(47), 7150. <https://doi.org/10.1039/b808258h>

- Lobo A, Launer LJ, Fratiglioni L, Andersen K, DiCarlo A, et al. (2000). Prevalence of dementia and major subtypes in Europe: A collaborative study of population-based cohorts. *Neurology* 54: S4–S9.
- Malamatari, M., Charisi, A., Malamataris, S., Kachrimanis, K., & Nikolakakis, I. (2020). Spray drying for the preparation of nanoparticle-based drug formulations as dry powders for inhalation. *Processes*, 8(7), 788. <https://doi.org/10.3390/pr8070788>
- Manuha, M. (2018). Preventive role of spice condiments in alzheimer's diseases. Retrieved November 23, 2022, from https://www.researchgate.net/publication/342735001_Preventive_Role_of_Spice_Condiments_in_Alzheimer's_Diseases
- Mansuri, M. L., Parihar, P., Solanki, I., & Parihar, M. S. (2014). Flavonoids in modulation of cell survival signalling pathways. *Genes & nutrition*, 9(3), 400. <https://doi.org/10.1007/s12263-014-0400-z>
- Markesbery W. R. (1997). Oxidative stress hypothesis in Alzheimer's disease. *Free radical biology & medicine*, 23(1), 134–147. [https://doi.org/10.1016/s0891-5849\(96\)00629-6](https://doi.org/10.1016/s0891-5849(96)00629-6)
- Melo EA, Bion FM, Filho JM and Guerra NB. (2003). In vivo antioxidant effect of aqueous and etheric coriander (*Coriandrum sativum* L.) extracts. *Eur J Lipid Sci Technol* 105:483–487
- Minatel, I. O., Borges, C. V., Ferreira, M. I., Gomez, H. A., Chen, C.-Y. O., & Lima, G. P. (2017). Phenolic compounds: Functional properties, impact of processing and bioavailability. *Phenolic Compounds - Biological Activity*. <https://doi.org/10.5772/66368>
- Mir, S.A.; Bhat, A.S; and Ahangar, A.A. (2014). A simplified 2, 4-Dinitrophenylhydrazine Assay for Flavonoids and its Comparison with a Standard Flavonoid Assay. *International Journal of PharmTech Research*, Vol.6, No.2, pp 751-758, ISSN : 0974-4304
- Mishra, A., Sharma, A. K., Kumar, S., Saxena, A. K., & Pandey, A. K. (2013). *bauhinia variegata* leaf extracts exhibit considerable antibacterial, antioxidant, and anticancer activities. *BioMed Research International*, 2013, 1–10. <https://doi.org/10.1155/2013/915436>
- Mohrle, R. (1989). 'Effervescent Tablet', in Lachman, L., Lieberman, H. A., dan Schwartz, J. B., *Pharmaceutical Dosage Forms : Tablet*, Volume I Second moEdition : Revised and Expanded, Marcel Dekker Inc, New York.
- Moravkar, K. K., Korde, S. D., Bhairav, B. A., Shinde, S. B., Kakulade, S. V., dan Chalikwar, S. S. (2020). Traditional and Advanced Flow Characterization Techniques: A Platform Review for Development of Solid Dosage Form. *Indian Journal of Pharmaceutical Science*. Vol 82(6): 945-957.
- Munthe, A. (2019). *Uji Aktivitas Antibakteri Ekstrak Daun Ketumbar (Coriandrum sativum L.) Terhadap Bakteri Escherichia coli, Vibrio cholerae dan Bacillus cereus* (Doctoral dissertation, Universitas Sumatera Utara).
- Murphy, E. G., Regost, N. E., Roos, Y. H., & Fenelon, M. A. (2020). Powder and reconstituted properties of commercial infant and follow-on formulas. *Foods*, 9(1), 1–17. <https://doi.org/10.3390/foods9010084>
- Nambiar, V. S., Daniel, M., & Guin, P. (2010). Characterization of polyphenols from coriander leaves (*Coriandrum sativum*), red amaranthus (*A. paniculatus*) and green amaranthus (*A.*

- frumentaceus) using paper chromatography and their health implications. *Journal of Herbal medicine and Toxicology*, 4(1), 173-177.
- Narajeenrone, Khuannara; Wattanarangsarn, Jantanee; Pilakasiri, Kajee; Akarasereenont, Pravit; and Booranasubkajorn, Suksalin. (2020). "Optimizing the method for quantification of apigenin and quercetin in the Thai herbal Sattakavata formula by ultra-performance liquid chromatography coupled with mass spectrometer," *The Thai Journal of Pharmaceutical Sciences*: Vol. 44: Iss. 2, Article 3. Available at: <https://digital.car.chula.ac.th/tjps/vol44/iss2/3>
- Neikov, O. D., Yefimov, N. A., & Naboychenko, S. (2009). *Handbook of non-ferrous metal powders: technologies and applications*. Elsevier.
- Neha, K., Haider, M. R., Pathak, A., & Yar, M. S. (2019). Medicinal prospects of antioxidants: A review. *European journal of medicinal chemistry*, 178, 687-704
- Nhut, P. T., Quyen, N. T., Truc, T. T., Minh, L. V., An, T. N., & Anh, N. H. (2020). Preliminary study on phytochemical, phenolic content, flavonoids and antioxidant activity of *Coriandrum sativum* L. originating in Vietnam. *IOP Conference Series: Materials Science and Engineering*, 991(1), 012022. <https://doi.org/10.1088/1757-899x/991/1/012022>
- Nishiumi, S. (2011). Dietary flavonoids as cancer-preventive and therapeutic biofactors. *Frontiers in Bioscience*, 53(1), 1332. <https://doi.org/10.2741/229>
- Noreen, H., Semmar, N., Farman, M., & McCullagh, J. S. (2017). Measurement of total phenolic content and antioxidant activity of aerial parts of medicinal plant *Coronopus didymus*. *Asian Pacific journal of tropical medicine*, 10(8), 792-801.
- Nugraha, A. T., Sumarlin, L. O., Muawanah, A., Amilia, N., & Wulandari, M. (2022). The Total Phenolic, Total Flavonoid, and Brown Pigment in Honey Before and After Heating. *Elkawnie*, 8(1), 190-208. <https://doi.org/10.22373/ekw.v8i1.12757>
- Numer Alam & Sharma, K. raj. (2020). Estimation of phenolic content, flavonoid content, antioxidant, and alpha-amylase inhibitory activity of some selected plants from Siraha District Nepal. *Asian Journal of Pharmaceutical and Clinical Research*, 18–23. <https://doi.org/10.22159/ajpcr.2020.v13i4.36734>
- Orhan G, Orhan I, Oztekin-Subutay N, Ak F, Sener B (2009) Contemporary anticholinesterase pharmaceuticals of natural origin and their synthetic analogues for the treatment of Alzheimer's disease. *Recent Pat CNS Drug Discov* 4(1):43–51. <https://doi.org/10.2174/157488909787002582>
- Önder, A. (2018). Coriander and Its Phytoconstituents for the Beneficial Effects. InTech. doi: 10.5772/intechopen.78656
- Panche, A. N., Diwan, A. D., & Chandra, S. R. (2016). Flavonoids: an overview. *Journal of nutritional science*, 5, e47. <https://doi.org/10.1017/jns.2016.41>
- Patil, A. K. (2022). A Review: Spray Dryer Design And Control System. *Journal of Pharmaceutical Negative Results*, 2020-2027.
- Patras, A., Brunton, Nigel. P., O'Donnell, C., & Tiwari, B. K. (2010). Effect of thermal processing on anthocyanin stability in foods; mechanisms and kinetics of degradation. *Trends in Food Science & Technology*, 21(1), 3–11. <https://doi.org/10.1016/j.tifs.2009.07.004>

- Patterson, H., Nibbs, R., McInnes, I., & Siebert, S. (2014). Protein kinase inhibitors in the treatment of inflammatory and autoimmune diseases. *Clinical and Experimental Immunology*, 176(1), 1–10. <https://doi.org/10.1111/cei.12248>
- Pękal, A., & Pyrzynska, K. (2014). Evaluation of aluminium complexation reaction for flavonoid content assay. *Food Analytical Methods*, 7(9), 1776–1782. <https://doi.org/10.1007/s12161-014-9814-x>
- Phongpaichit S, Nikom J, Rungjindamai N, Sakayaroj J, Hutadilok-Towatana N, Rukachaisirikul V, et al. 2007 Biological activities of extracts from endophytic fungi isolated from Garcinia plants. *FEMS Immunol Med Microbiol*. 51(3):517–25
- Pisecky, I. (1997). Handbook of milk powder manufacture (Copenhagen, Denmark: Niro A/S).
- Plassman, B. L., Langa, K. M., Fisher, G. G., Heeringa, S. G., Weir, D. R., Ofstedal, M. B., Burke, J. R., Hurd, M. D., Potter, G. G., Rodgers, W. L., Steffens, D. C., Willis, R. J., & Wallace, R. B. (2007). Prevalence of dementia in the United States: The aging, demographics, and memory study. *Neuroepidemiology*, 29(1-2), 125–132. <https://doi.org/10.1159/000109998>
- Prasain, J. K., Wang, C. C., & Barnes, S. (2004). Mass spectrometric methods for the determination of flavonoids in biological samples. *Free radical biology and medicine*, 37(9), 1324-1350.
- Prathapan, A., Lukhman, M., Arumughan, C., Sundaresan, A., & Raghu, K. G. (2009). Effect of heat treatment on curcuminoid, colour value and total polyphenols of fresh turmeric rhizome. *International Journal of Food Science & Technology*, 44(7), 1438–1444. <https://doi.org/10.1111/j.1365-2621.2009.01976>
- Putri, J. C. S., Haryanti, S., & Izzati, M. (2017). Pengaruh Lama Penyimpanan Terhadap Perubahan Morfologi dan Kandungan Gizi Pada Umbi Talas Bogor (*Colocasia esculenta* (L.) schott). *Jurnal Akademika Biologi*, 6(1), 49-58
- Pinto, J. T., Faulhammer, E., Dieplinger, J., Dekner, M., Makert, C., Nieder, M., & Paudel, A. (2021). Progress in spray-drying of Protein Pharmaceuticals: Literature Analysis of trends in formulation and process attributes. *Drying Technology*, 39(11), 1415–1446. <https://doi.org/10.1080/07373937.2021.1903032>
- Qiu, C., Kivipelto, M., & von Strauss, E. (2009). Epidemiology of Alzheimer's disease: occurrence, determinants, and strategies toward intervention. *Dialogues in clinical neuroscience*, 11(2), 111–128. <https://doi.org/10.31887/DCNS.2009.11.2/cqiu>
- Raini, M., dan Isnawati, A. (2011). Khasiat dan Keamanan Stevia sebagai Pemanis Pengganti Gula. *Media Litbang Kesehatan*. 21 (4): 145- 156.
- Rani, K. C., Parfati, N., Ekajayani, N. I., Kurniawan, I. M., & Kristiani, N. P. (2021). The development of moringa leaves effervescent granules with effervescent agent of citric acid and sodium bicarbonate. *Pharmaciana*, 11(2), 225. <https://doi.org/10.12928/pharmaciana.v11i2.20873>
- Rezaei, F., & VanderGheynst, J. S. (2010). Critical moisture content for microbial growth in dried food-processing residues. *Journal of the Science of Food and Agriculture*, 90(12), 2000–2005. <https://doi.org/10.1002/jsfa.4044>
- Rebecca, J. (2021). *Investigation of Anti-Alzheimer's Activity of Coriander (Coriandrum sativum L.) Leaves Extract: Insight into Antioxidant Activity and GABAARs* (Doctoral dissertation,

Indonesia International Institute for Life Sciences).

- Rendy, Y. & Hadisoewignyo, L. (1999). Formulasi Kapsul Ekstrak Lubrecus Rubellus Dengan Laktosa Sebagai Bahan Pengisi Dan PVP K-30 Sebagai Bahan Pengikat, *Jurnal Fakultas Farmasi Universitas Katolik Widya Mandala*, 1(1), 1-7.
- Ricki Hardiana, Rudiyanasyah, T. A. Z. (2012). Aktivitas antioksidan senyawa golongan fenol dari beberapa jenis tumbuhan famili Malvaceae. *Jurnal Kimia Khatulistiwa*, 1(1), 8-13.
- Riyanto, A. (2017). Uji Aktivitas The Celup Kulit Jeruk Keprok Soe NTT (Citrus nobbilis L.) Terhadap Penurunan Berat Badan pada Tikus Betina. *Karya Tulis Ilmiah*.
- Rowe, C. R., Sheskey, J. P., dan Quinn, E. M. (2009). *Handbook of Pharmaceutical Exipient*, 6th edition, The Parmaceutical Press, London
- Sagala, R.J., Rachmawati, P. and Kambira, P.F.A. (2021) 'Review waktu Larut Mempengaruhi Kualitas tablet effervescent Sediaan Herbal', *JFIONline | Print ISSN 1412-1107 | e-ISSN 2355-696X*, 13(2), pp. 174–184. doi:10.35617/jfionline.v13i2.44.
- Santos, D., Maurício, A. C., Sencadas, V., Santos, J. D., Fernandes, M. H., & Gomes, P. S. (2018). Spray drying: An overview. *Biomaterials - Physics and Chemistry - New Edition*. <https://doi.org/10.5772/intechopen.72247>
- Santosa, I., Puspa, A. M., Aristianingsih, D., & Sulistiawati, E. (2019). Karakteristik Fisiko-kimia Tepung Ubi Jalar Ungu dengan Proses Perendaman Menggunakan Asam Sitrat. *CHEMICA: Jurnal Teknik Kimia*, 6(1), 1-5.
- Sari, L. O. (2006). Pemanfaatan obat tradisional Dengan Pertimbangan manfaat Dan Keamanannya. *Pharmaceutical Sciences and Research*, 3(1), 1–7. <https://doi.org/10.7454/psr.v3i1.3394>
- Saw, H. Y., Davies, C. E., Paterson, A. H. J., & Jones, J. R. (2015). Correlation between powder flow properties measured by shear testing and Hausner ratio. *Procedia Engineering*, 102(December), 218–225. <https://doi.org/10.1016/j.proeng.2015.01.132>
- Sharma, S. (2021). *Master Resource Book in Chemistry for JEE Main 2022 (English, Paperback, Sharma Sanjay)*. Arihant Publication.
- Sianipar, R. N. R., Sutriah, K., Iswantini, D., & Achmadi, S. S. (2022). Inhibitory Capacity of Xanthine Oxidase in Antigout Therapy by Indonesian Medicinal Plants. *Pharmacognosy Journal*, 14(2).
- Siregar, C. J., & Wikarsa, S. (2010). Teknologi Farmasi Sediaan Tablet Dasar-Dasar Praktis. *Jakarta: EGC*, 13-42.
- Sobulska, M., & Zbicinski, I. (2021). *Flame Spray Drying: Equipment, Mechanism, and Perspectives*. CRC Press.
- Solikhati, A., Rahmawati, R. P., & Kurnia, S. D. (2022). Analisis Mutu fisik granul EKSTRAK Kulit Manggis Dengan metode Granulasi Basah. *Indonesia Jurnal Farmasi*, 7(1), 1. <https://doi.org/10.26751/ijf.v7i1.1421>
- Sosnik, A., & Seremeta, K. P. (2015). Advantages and challenges of the spray-drying technology for the production of pure drug particles and drug-loaded polymeric carriers. *Advances in colloid and interface science*, 223, 40-54.

- Sugimoto H, Ogura H, Arai Y, Imura Y and Yamanishi Y. (2002). Research and development of donepezil hydrochloride, a new type of acetylcholinesterase inhibitor. *Jpn J Pharmacol* 89:7–20
- Švonja-Parezanović, G., Lalić-Popović, M., Goločorbin-Kon, S., Todorović, N., Pavlović, N., & Jovičić-Bata, J. (2019). The effect of magnesium stearate and sodium starch glycolate on powder flowability. *Acta Periodica Technologica*, (50), 304-310.
- Swartz, M. E. (2005). Ultra performance liquid chromatography (UPLC): An introduction. *LC-GC North America*, 23(5), S8-S8.
- The United State Pharmacopeial Convention. (2018). The United States Pharmacopeia (USP). 29th Edition. United States
- Tristantini, D., & Amalia, R. (2019, December). Quercetin concentration and total flavonoid content of anti-atherosclerotic herbs using aluminum chloride colorimetric assay. In *AIP Conference Proceedings* (Vol. 2193, No. 1, p. 030012). AIP Publishing LLC.
- Tu, X., Ma, S., Gao, Z., Wang, J., Huang, S., & Chen, W. (2017). One-Step Extraction and Hydrolysis of Flavonoid Glycosides in Rape Bee Pollen Based on Soxhlet-Assisted Matrix Solid Phase Dispersion. *Phytochemical Analysis*, 28(6), 505-511.
- Voight, R. (1984). Buku Pelajaran Teknologi Farmasi diterjemahkan oleh Soendani Noerono Soewandhi, Edisi V. Yogyakarta: Universitas Gadjah Mada.
- Wadke, H.A. dan Jacobson, H. (1980). *Preformulation Testing in Pharmaceutical Dosage Forms Tablets*. Vol. I., Lieberman H.A. dan Lachman. L, Marcel Dekker Inc., New York.
- Widya, C. A., A. Siswanto dan D. Hartanti. (2010). Pengaruh Gelatin, Amilum dan PVP Sebagai Bahan Pengikat Terhadap Sifat Fisik Tablet Ekstrak Temulawak (*Curcuma xanthorrhiza* Roxb). *Journal Pharmacy*. Vol. 7(2): 58-66
- Widyaningsih, T. D., Wijayanti, N., & Nugrahini, N. I. P. (2017). *Pangan Fungsional: Aspek Kesehatan, Evaluasi, dan Regulasi* (1st ed.). Malang: UB Press.
- Wijayati, M., Saptarini, N., Herawati, I. E. & Suherman, S. E. (2014). Formulasi Granul Effervescent Sari Kering Lidah Buaya sebagai Makana Tambahan. *Jurnal Sains dan Teknologi Farmasi Indonesia*, Volume 1(1), pp. 1-6.
- Williams, C. A., & Grayer, R. J. (2004). Anthocyanins and other flavonoids. *Natural Product Reports*, 21(4), 539. <https://doi.org/10.1039/b311404j>
- Williams, R. J., Spencer, J. P., & Rice-Evans, C. (2004). Flavonoids: antioxidants or signalling molecules?. *Free radical biology and medicine*, 36(7), 838-849.
- Wolfender, J. L., Rodriguez, S., & Hostettmann, K. (1998). Liquid chromatography coupled to mass spectrometry and nuclear magnetic resonance spectroscopy for the screening of plant constituents. *Journal of Chromatography A*, 794(1-2), 299-316.
- Wuryantoro H, Susanto WH. (2014). Penyusunan standard operating procedures industri rumah tangga pangan pemanis alami instan sari stevia (*Stevia rebaudiana*). *J Pangan dan Agroindustri*. 2014;2(3):76±87
- Xu JS, Begley P, Church SJ, et al. (2016). Graded perturbations of metabolism in multiple regions of

- human brain in Alzheimer's disease: snapshot of a pervasive metabolic disorder. *Bba-Mol Basis Dis* 1862(6): 1084–1092.
- Xu, D., Hu, M. J., Wang, Y. Q., and Cui, Y. L. (2019). Antioxidant activities of quercetin and its complexes for medicinal applications. *Molecules* 24:1123.doi: 10.3390/molecules24061123Y
- Yang, M., Sun, J., Lu, Z., Chen, G., Guan, S., Liu, X., ... & Guo, D. A. (2009). Phytochemical analysis of traditional Chinese medicine using liquid chromatography coupled with mass spectrometry. *Journal of Chromatography A*, 1216(11), 2045-2062.
- Yusof, N., Munaim, M.S.A., & Kutty, R.V. (2020). The Effects of Different Ethanol Concentration on Total Phenolic and Total Flavonoid Content In Malaysian Propolis. IOP conference series: Materials Sciences and Engineering, 991, 1-4. doi:10.1088/1757-899X/991/1/012033
- Zaika, L. L. (2002). Effect of organic acids and temperature on survival of *Shigella flexneri* in broth at pH 4. *Journal of food protection*, 65(9), 1417-1421.
- Zaman, N. N., & Sopyan, I. (2020). Tablet manufacturing process method and defect of tablets. *Majalah Farmasetika*, 5(2). <https://doi.org/10.24198/mfarmasetika.v5i2.26260>
- Zhang, L., Chang, L., Zhang, X., Ren, Y., Cao, L., & Zhi, X. (2013). Simultaneous quantification of six major flavonoids from fructus sophorae by LC-ESI-MS/MS and Statistical Analysis. *Indian Journal of Pharmaceutical Sciences*, 75(3), 330. <https://doi.org/10.4103/0250-474x.117437>
- Zhang, Y.-M., Zhang, Z.-Y., & Wang, R.-X. (2020). Protective mechanisms of quercetin against myocardial ischemia reperfusion injury. *Frontiers in Physiology*, 11. <https://doi.org/10.3389/fphys.2020.00956>