

DAFTAR PUSTAKA

- Ahmad, F. M. Y., Katja, D. G., Suryanto, E., 2018, Uji Fitokimia Ekstrak Kuli Batang *Chisocheton sp. (C.DC)* Harms yang Tumbuh di Gunung Soputan Sulawesi Utara, *Pharmacon Jurnal Ilmiah Farmasi*, vol. 7, no. 4, pp. 2302-2493.
- Atun, S, 2014, Metode Isolasi dan Identifikasi Struktur Senyawa Organik Bahan Alam, *Jurnal Konservasi Cagar Budaya Borobudur*, vol. 8, pp. 53–61.
- Batista, J. M. (2013). Determination of Absolute Configuration Using Chiroptical Methods. *Stereoselective Synthesis of Drugs and Natural Products*, 1–30.
- Berhardt, L.V., 2017, *Advances in Medicine and Biology*, Nova Science Publisher, New York.
- Choironi, N. A., Insani, K. N., Parika, D., Sunarto, Martinus, A., Fareza, M. S., 2019, Isolasi dan Karakterisasi Senyawa Non Fenolik dari Daun Gowok (*Syzygium polycephalum*), *Media Pharmaceutica Indonesiana*, vol. 2, no. 3.
- Ciftci, H.I., Radwan, M.O., Ozturk, S.E., 2019, Design, Synthesis, and Biological Evaluation of Pentacyclic Triterpene Derivatives: Optimization of Anti-ABL Kinase Activity, *Molecules*, vol. 24, no. 4, pp. 570-574.
- Dachriyanus, 2004, *Analisis Struktur Senyawa Organik Secara Spektroskopi*, Lembaga Pengembangan Teknologi Informasi dan Komunikasi, Sumatera Barat.
- Endarini, L. H., 2016, *Farmakognosi dan Fitokimia*, Pusdik SDM Kesehatan, Jakarta.
- Febriana, L., Rusli, R., Muflihah, F., 2013, Optimalisasi Ekstraksi dan Uji Metabolit Sekunder Tumbuhan Libo (*Ficus Variegata Blume*), *J. Trop. Pharm. Chem.*, vol. 3, no. 2, pp. 74-81.
- Gerlach, A. C. L., Gadea, A., Silveira, R. M. B., Clerc, F., Devehat, F. L., 2018, The Use of Anisaldehyde Sulfuric Acid as an Alternative Spray Reagent in TLC Analysis Reveals Three Classes of Compounds in the Genus *Usnea* Adans. (Parmeliaceae, lichenized Ascomycota), *Preprints*, vol. 1.
- Hamid, K., Alqahtani, A., Kim, M. S., Cho, J. L., Cui, P. H., Li, C. G., Groundwater, P. W., Li, G. Q., 2015, Tetracyclic Triterpenoids in Herbal Medicines and

- their Activities in Diabetes and its Complications, *Current Topics in Medicinal Chemistry*, vol. 15, no. 23, pp. 2406-2430.
- Helmchen, G., Hoffmann, R. W., Mulzer, J., & Schaumann, E. (Eds.), 1995, *Determination of Absolute and Relative Configuration*, Stereoselective Synthesis
- Homer, J., 1975, Solvent Effects on Nuclear Magnetic Resonance Chemical Shifts, *Applied Spectroscopy Reviews*, vol. 9, no. 1, pp. 1–132.
- Inada, A., Sukemawa, M., Murata, H., Nakanishi, T., Tokuda, H., Nishino, H., Iwashima, Darnaedi, D.J. & Murata, J. 1993. Phytochemical studies on Maleaceous Plant. Part VIII. Structures and Inhibitory Effects on Epstein-Barr Virus Activation of Triterpenoids from Leaves of *Chisocheton macrophyllus* King. *Chem Pharm Bull*, vol. 41, no. 3, pp. 617– 619.
- Jager, S., Trojan, H., Kopp, T., Laszczyk, M. N., Scheffler, A, 2009, *Pentacyclic Triterpene Distribution in Various Plants-Rich Sources for a New Group of Multi-Potent Plant Extracts*, *Molecules*, vol. 14, pp. 2016-2031.
- Jenie, U. A., Kardono, L. B. S., Hanafi, M., Rumampuk, R. J., Darmawan, A., 2014, *Teknik Modern Spektroskopi NMR : Teori dan Aplikasi dalam Elusidasi Struktur Molekul Organik*, LIPI Pres, Jakarta.
- Katja, D. G., Salam, S., Nurlelasari, Harneti, D., Maharani, R., Supratman, U., Shiono, Y., 2020, *Dammarane-type Triterpenoids From the Stembark of Chisocheton pentandrus* (Meliaceae), *Jurnal Kimia*, vol. 14, no. 1, pp. 15.
- Kaytarova, M., 2009, *Plants of Asia*, diakses 24 Februari 2021, http://www.plantsofasia.com/index/chisocheton_macrophyllus/0-1093
- Muflihah, L.F., Nurlelasari, Huspa, D.H.P., Supratman U., 2013, Senyawa 7-hidroksi-6-metoksi kumarin dari Kulit Batang *Chisocheton macrophyllus* (Meliaceae), *Prosiding Seminar Nasional Sains dan Teknologi Nuklir*, vol. 16, no. 1, pp. 59-61.
- Newmark, 2000, *Jendela Iptek*, Jakarta : Balai Pustaka
- Nugroho, A.E. Momota, T., Sugiura, R., Hanzawa, M., Yajima, E., Nagakura, Y., Yasuda, N., Hirasawa, Y., Wong, C.P., Kaneda, T., Hadi, A.H.A.,

- Fukaya, H., Morita, H. 2014, 'Dysotriflorins A-M, Triterpenoids from *Dysoxylum densiflorum*', *Tetrahedron*, vol. 70, no. 51, pp. 9661–9667. doi: 10.1016/j.tet.2014.10.070.
- Nurlelasari, Ferdiana, N., Mauluddian, S., Harneti, D., Moekti, M., Wardoyo, Abdullah R., Supratman, U., Awang, K., 2015, Senyawa Damara-20,24-dien-3-on yang Beraktivitas Sitotoksik Terhadap Sel MCF-7 dari Kulit Batang *Chisocheton macrophyllus*, *Indonesian Journal of Applied Sciences*, vol. 5, no. 3.
- Nurlelasari, Harneti D., Mayanti, T., Supratman, U., 2016, Senyawa Disobinin yang Bersifat Antimalaria dari Biji Tumbuhan *Chisocheton macrophyllus* (Meliaceae), *Al-Kimia*, vol. 4, no. 2.
- Nurlelasari, Katja, D. G., Harneti, D., 2017, Limonoid from the Seeds of *Chisocheton macrophyllus*, *Chemistry of Natural Compounds*, vol. 53, no. 1.
- Parmar, S.K., Sharma, T.P., Airao, V.B., Bhatt, R., Aghara, R., Chauda, S., Rabadiya, S.O., Gangwal, A.P., 2013, Neuropharmacological Effects of Triterpenoids, *Phytopharmacology*, vol. 4, no. 2, pp. 354-372.
- Pratiwi, L., Fudholi, A., Martien, R., Pramono, S., 2016, Ethanol Extract, Ethyl Acetate Extract, Ethyl Acetate Fraction, and *n*-heksana Fraction Mangosteen Peels (*Garcinia mangostana* L.) As Source of Bioactive Substance Free-Radical Scavengers. *Journal of Pharmaceutical Science and Clinical Research*, vol. 01, pp. 71-82.
- Sari, V.M., Nurlelasari, Harneti, D., Maharani, R., Indrayati, N., Azmi, M. N., Supratman, U., 2020, Triterpenoid and Steroid from the Rind of *Chisocheton macrophyllus* (Meliaceae), *Journal of Physics: Conference Series*, vol. 1494, no. 1.
- Saifudin A., 2014, Senyawa Alam Metabolit Sekunder Teori, Konsep, dan Teknik Pemurnian Ed. I, *Deepublish*, Sleman.

- Shilpi, J. A., Saha, S., Chong, S. L., Nahar, L., Sarker, S. D., Awang, K., 2016 Advances in Chemistry and Bioactivity of the Genus *Chisocheton* BLUME, *Chem Biodiversity*, vol. 13, pp. 483-503.
- Siadi, N., Ginting, B., Murniana, Mustanir, 2018, Analisis Metabolit Sekunder, *Syiah Kuala University Press*, Banda Aceh.
- Smith, J. G. 2011, *Organic Chemistry*, 3rd ed, McGraw-Hill, New York
- Syah Y. M., 2016, *Dasar-dasar Penentuan Struktur Molekul Berdasarkan Data Spektrum ¹H & ¹³C NMR*, Perpustakaan Nasional RI. Data Katalog dalam Terbitan.
- Utomo, A. D., Rahayu, W. S., Dhiani, B. A., 2009, Pengaruh Beberapa Metode Pengeringan Terhadap Kadar Flavonoid Total Herba Sambiloto (*Andrographis paniculata*), *Pharmacy*, vol. 06, no. 01, pp. 58-68.
- Yang, M.H., Wang J.S., Luo J.G., Wang, X. B., Kong, L.Y, 2009, Tetranortriterpenoids from *Chisocheton paniculatus*, *Journal of Natural Product*, vol. 72, no. 11, pp 2014-2018.
- Wulandari, 2017, Uji Aktivitas Ekstrak Kasar Etanol dan Fraksi *n*-heksana Tanaman Rumput Bambu (*Lophaterum gracile* B.) Sebagai Antimalaria pada Parasit *Plasmodium falcifarum* Strain 3D7, *Skripsi*, Fakultas Sains dan Teknologi Universitas Negeri Maulana Malik Ibrahim, Malang.
- Zhou, A.-C., Zhang, C.-F., & Zhang, M. (2008). A New Protostane Triterpenoid from the Rhizome of *Alisma orientale*. *Chinese Journal of Natural Medicines*, vol. 6, no. 2, pp. 109–111