

DAFTAR PUSTAKA

- Abdalla, M., Eltayb, W. A., El-Arabey, A. A., Singh, K., dan Jiang, X., 2022, Molecular Dynamic Study of SARS-CoV-2 with Various S Protein Mutations and Their Effect on Thermodynamic Properties, *Comput. Biol. Med.*, 141.
- Alencar, W.L.M., Silva Arouche, T., dan Neto, A.F.G., 2022, Interactions of Co, Cu, and Non-Metal Phthalocyanines with External Structures of SARSCoV-2 Using Docking and Molecular Dynamics, *Sci. Rep.*, 12.
- Anonim^a, 2022, *Profil Kesehatan Indonesia 2021*, Kementerian Kesehatan Republik Indonesai, Jakarta.
- Anonim^b, 2022, *World Malaria Report 2022*, World Health Organization, Switzerland.
- Anwar, C., Prasetyo, Y.D., Matsjeh, S., Haryadi, W., Sholikhah, E.N., dan Nendrowati, 2018, Synthesis of Chalcone Derivatives and Their in vitro Anticancer Test Against Breast (T47D) and Colon (wiDr) Cancer Cell Line, *Indo. J. Chem.*, 18(1), 102–107.
- Apriani, F., 2015, Studi Penambatan Molekul Senyawa-Senyawa Amidasi Etil Para Metoksisinamat Pada Peroxisome Proliferator-Activated Receptor-Gamma (PPAR γ), *Skripsi*, Program Studi Farmasi FKIK UIN, Jakarta.
- Ashley, E. A., Dhorda, M., Fairhust, R. M., Amaratunga, C., Lim, P., Suon, S., Sreng, S., Anderson, J. M., Mao, S., Sam, B., Sopha, C., Chuor, C. M., Nguon, C., Sovannaroth, S., Pukrittayakamee, S., Jittamala, P., Chotivanich, K., Chutasmit, K., Suchatsoonthorn, C., Runcharoen, R., Hien, T. T., Thuy-Nhien, N. T., Thanh, N. V., Phu, N. H., Htut, Y., Han, K. T., Aye, K. H., Mokuolo, O. A., Olaosebikan, R. R., Folaranmi, O. O., Mayxay, M., Khanthavong, M., Hongvanthong, B., Newton, P. N., Onyamboko, M. A., Fanello, C. I., Tshefu, A. K., Mishra, N., Valecha, N., Phyo, A. P., Nosten, F., Yi, P., Tripura, R., Borrmann, S., Bashraheil, M., Peshu, J., Faiz, M. A., Ghose, A., Hossain, M. A., Samad, R., Rahman, M. R., Hasan, M. M., Islam, A., Miotto, O., Amato, R., MacInnis, B., Stalker, J., Kwiatkowski, D. P., Bozdech, Z., Jeeyapant, A., Cheah, P. Y., Sakulthaew, T., Chalk, J., Intharabut, B., Silamut, K., Lee, S. J., Vihokhern, B., Kunasol, C., Imwong, M., Tarning, J., Taylor, W. J., Yeung, S., Woodrow, C. J., Flegg, J. A., Das, D., Smith, J., Venkatesan, M., Plowe, C. V., Stepniewska, K., Guerin, P. J., Dondorp, A. M., Day, N. P., dan White, N. J., 2014, Spread of Artemisinin Resistance in *Plasmodium falciparum* Malaria, *Engl. J. Med.*, 371, 411-423.

- Babu, A.K. dan Selvaraju, K., 2018, Synthesis and Characterization of Some Novel Chalcone Derivatives, *Rasayan J. Chem.*, 11, 1501–1505.
- Babu, P., N., K., Devi, B., R., dan Dubey, P. K., 2013, Ultrasound-Assisted Convenient, Rapid and Environmentally Benign Synthesis of N-Alkyl Benzimidazoles, *Der Chem. Sin.*, 4(1), 105–110.
- Boittier, E. D., Tang, Y. Y., Buckley, M. E., Schuurs, Z. P., Richard, D. J., dan Gandhi, N. S., 2020, Assessing Molecular Docking Tools to Guide Targeted Drug Discovery of CD38 Inhibitors, *Int. J. Mol. Sci.*, 21(15), 1-19.
- Chaudary, K. K., Kannoja, P., dan Mishra, N., 2015, Chalcones as Antimalarials: *In Silico* and Synthetic Approach, The Battle Against Microbial Pathogens: Basic Science, Technological Advances and Educational Program, A. Mendez-Vilas, Ed., 512-525.
- Chavan B.B., Gadekar A.S., Mehta P.P., Vawhal P.K., Kolsure A.K. dan Chabukswar A.R., 2016, Synthesis and Medicinal Significance of Chalcones, *AJBPS*, 6, 7.
- Chowdhury, P. dan Viraraghavan, T., 2009, Sonochemical Degradation of Chlorinated Organic Compounds, Phenolic Compounds, and Organic Dyes - A review, *Sci. Total Environ.*, 407(8), 2474–2492.
- Cravotto, G. dan Cintas, P., 2006, Power Ultrasound in Organic Synthesis: Moving Cavitation Chemistry from Academia to Innovative and Large-scale Applications, *Chem. Soc. Rev.*, 35(2), 180–196.
- Dipankar, B., Panneerselvam, P., dan Asish, B., 2012, Synthesis, Characterization and Evaluation of Analgesic, Anti-Inflammatory, Ulcerogenic Potential of Some 2-Pyrazoline Derivatives, *Der Pharma Chem.*, 4(4), 1679–1688.
- Draye, M., Chatel, G., dan Duwald, R., 2020, Ultrasound for Drug Synthesis: A Green Approach, *Pharmaceuticals*, 13(2).
- Fauzi'ah, L. dan Wahyuningsih, T.D., 2016, Synthesis of Chalcones Substituted with Nitro and Hydroxyl Group in Alkaline Medium, *J. Eksakta*, 16, 103–114.
- Gaikwad, K. V., Sandip, V.G., Satish, B.J., dan Shantial, D.R., 2010, Synthesis of Some Novel Chalcones of Phthalimidoester Possessing Good Antiinflammatory and Antimicrobial Activity, *Indian J. Chem.*, 49B, 131-136.
- Gane, P.J. dan Dean, P.M., 2000, Recent Advances in Structure-Based Rational Drug Design, *Curr. Opin. Struct. Biol.*, 10, 401–404.

- Gao, D.M., Ma, W.L., Li, T.R., Huang, L.Z., dan Du, Z.T., 2012, An Improved Synthesis of 1,2-Diarylethanol Under Conventional Heating and Ultrasound Irradiation, *Molecules*, 17(9), 10708–10715.
- Gharat, N.N. dan Rathod, V.K., 2020, *Ultrasound-assisted Organic Synthesis in Green Sustainable Process for Chemical and Environmental Engineering and Science*, Institute of Chemical Technology, India.
- Guesmi, A., Ladhari, N., dan Sakli, F., 2013, Ultrasonic Preparation of Cationic Cotton and Its Application in Ultrasonic Natural Dyeing, *Ultrason. Sonochem.*, 20(1), 571–579.
- Jarag, K.J., Pinjari, D.V., Pandit, A.B., dan Shankarling, G.S., 2011, Synthesis of Chalcone (3-(4-fluorophenyl)-1-(4-methoxyphenyl)prop-2-en-1-one): Advantage of Sonochemical Method Over Conventional Method, *Ultrason. Sonochem.*, 18(2), 617–623.
- Krostad, D. J., 1996, Malaria as Reemerging Disease, *Epidemiologic. Rev.*, 1, 77–89.
- Kumar, R., Mohanakrishnan, D., Sharma, A., Kaushik, N.K., Kalia, K., Sinha, A.K., dan Sahal, D., 2010, Reinvestigation of the Structure-Activity Relationship of Methoxylated Chalcones as Antimalarials: Synthesis and Evaluation Of 2,4,5-Tri Methoxy Substituted Patterns as Lead Candidates Derived from Abundantly Available Natural B-Asarone, *Eur. J. Med. Chem.*, 45, 5292-5301.
- Kumar, S. dan Pandey, A. K., 2013, Chemistry and Biological Activities of Flavonoids: An Overview, *The Scientific World Journal*, Article ID 162750.
- Lahyani, A. dan Trabelsi, M., 2016, Ultrasonic-assisted Synthesis of Flavones by Oxidative Cyclization of 2'-Hydroxychalcones Using Iodine Monochloride, *Ultrason. Sonochem.*, 31, 626–630.
- Mason, T. J., 2007, Sonochemistry and The Environment Providing a “Green” Link Between Chemistry, Physics, and Engineering, *Ultrason. Sonochem.*, 14, 476-483.
- Maude, R. J., Pontavornpinyo, W., Saralamba, S., Aguas, R., Yeung, S., Dondorp, A. M., Day, N. P. J., White, N. J., dan White, L. J., 2009, The Last Man Standing is the Most Resistant: Eliminating Artemisinin-Resistant Malaria in Cambodia, *Malar. J.*, 8, 31.
- McMurry, J., 2011, *Fundamentals of Organic Chemistry 7th Ed.*, Brooks/Cole, Belmont.

- Meng, X.Y., Zhang, H.X., Mezei, M., dan Cui, M., 2011, Molecular Docking: A Powerful Approach for Structure-Based Drug Discovery, *Curr. Comput. Aid. Dru. Des.*, 7(2), 146–157.
- Modzelewska, A., Pettit, C., Achanta, G., Davidson, N.E., Huang, P., dan Khan, S.R., 2006, Anticancer Activities of Novel Chalcone and Bis-Chalcone Derivatives, *Bioorganic Med. Chem.*, 14, 3491–3495.
- Mukesh, B. dan Rakesh, K., 2011, Molecular Docking: A Review, *Int J Res Ayurv Pharm*, 2, 1746–1751.
- Patil, C.B., Mahajan, S., dan Katti, S.A., 2009, Chalcone: A Versatile Molecule, *J. Pharm. Sci. Res.*, 1(3), 11–22.
- Pavia, D.L., Lampman, G.M., Kriz, G.Z., dan Vyvyan, J.R., 2015, *Introduction to Spectroscopy, 5th ed.* Cengage Learning, Stamford.
- Purnomo, H., 2019, *Molecular Docking Parasetamol dan Analognya Menggunakan PLANTS (Protein-Ligand ANT-System)*, Adhi Publisher, Yogyakarta.
- Puspaningtyas, A.R., 2012, Molekular Docking Dengan Metode Molegro Virtual Docker Turunan Kalkon Sebagai Antimikroba, *Stomatognatic (J.K.G Unej)*, 9, 39–47.
- Rachmania, R. A., Supandi, dan cristina, F., A., D., Analisis Penambatan Molekul s=Senyawa Flavonoid Buah Mahkota Dewa (*Phaleria macrocarpa* (Scheff.) Boerl.) Pada Reseptor alfa-Glukosidase sebagai Antidiabetes, *Phar.*, 2(13), 240-251.
- Rafiee, E. dan Rahimi, F., 2013, A Green Approach to the Synthesis of Chalcones via Claisen-Schmidt Condensation Reaction Using Cesium Salts of 12-Tungstophosphoric Acid as a Reusable Nanocatalyst, *Monatsh. Chem.*, 144, 361-367.
- Seeliger, D. dan De Groot, B.L., 2010, Ligand Docking and Binding Site Analysis with PyMOL and Autodock/Vina, *J. Comput. Aided Mol.*, 24, 417-422.
- Setiawan, H. dan Irawan, M.I., 2017, Kajian Pendekatan Penempatan Ligan Pada Protein Menggunakan Algoritma Genetika, *J. Sains dan Seni ITS*, 6, 2–6.
- Soedarto, 2019, *Penyakit Menular Di Indonesia*, Sagung Seto, Surabaya.
- Suharna, S., 2012, Studi In Silico senyawa Turunan Flavonoid Terhadap penghambatan Enzim Tirosinase, *Skripsi*, Program Studi Farmasi FKIK UIN Alauddin, Makassar.

- Syahri, J., Yuanita, E., Nurohmah, B.A., Wathon, M.H., Syafri, R., Armunanto, R., dan Purwono, B., 2017, Xanthone as Antimalarial: QSAR Analysis, Synthesis, Molecular Docking, and *In Vitro* Antimalarial Evaluation, *Orient. J. Chem.*, 33, 29–40.
- Syahri, J., Yuanita, E., Nurohmah, B. A., Armuananto, R., dan Purwono, B., 2017, Chalcone Analogue as Potent Anti-malaria Compounds Against *Plasmodium falciparum*: Synthesis, biological evaluation, and docking simulation study, *Asian Pac. J. Trop. Biomed.*, 7(8), 675-679.
- Trott, O. dan Olson, A., 2009, Software news and Upgrade Autodock Vina: Improving The Speed and Accuracy of Docking with a New Scoring Function, Efficient Optimization, and Multithreading, *J. Comput. Chem.*, 0, 1-7.
- Wang, Z., 2010, *Comprehensive Organic Name Reactions and Reagents*, John Wiley and Sons, London.
- Widyawaruyanti, A., 2020, Aktivitas Antimalaria Beberapa Senyawa Alkaloid Aporfin dari Daun Phoebe Tavoyana, *UNAIR NEWS*.
- Yadav, N., Dixit, S. K., Bhattacharya, A., Mishra, L. C., Sharma, M., Awasthi, S. K., dan Bhasin, V. K., 2012, Antimalarial Activity of Newly Chalcone Derivatives *In Vitro*, *Chem Biol Drug.*, 80, 340-347.
- Zuchrian, M.R., 2010, Penambatan Molekuler Beberapa Senyawa Xanton dari Tanaman *Garcinia mangostana* Linn. Pada Enzim Plasmepsin dan Reduktase Protein Pembawa Enoil Asil *Plasmodium falciparum*, *Skripsi*, FMIPA Universitas Indonesia, Jakarta.