

DAFTAR PUSTAKA

- Abdi, J.K., Latumahina, F., Mardiatmoko, G., dan Tjoa, M., 2020, Penggunaan Biopestisida Nabati Dari Bahan Dasar Toga Untuk Pengendalian Hama Rayap Pada Pembibitan Pala dan Cengkeh Milik Kelompok Tani Spirit Di Desa Liliboi, *Jurnal Karya Abdi*, 4, 288–298.
- Adfa, M., Wiradimafan, K., Pratama, R.F., Sanjaya, A., Triawan, D.A., Yudha, S.S., Ninimiya, M., Rafi, M., dan Koketsu, M., 2023, Anti-Termite Activity of *Azadirachta excelsa* Seed Kernel and Its Isolated Compound against *Coptotermes curvignathus*, *Journal of the Korean Wood Science and Technology*, 51, 157–172.
- Adhikari, K., Bhandari, S., Niraula, D., dan Shrestha, J., 2020, Use Of Neem (*Azadirachta Indica* A. Juss) As A Biopesticide In Agriculture: A Review, *Journal of Agriculture and Applied Biology*, 1, 100–117.
- Agustinova, D.E., 2022, Strategi Pelestarian Benda Cagar Budaya Melalui Digitalisasi, *ISTORIA: Jurnal Pendidikan dan Sejarah*, 18, .
- Akbari, S. dan Nour, A.H., 2018, Emulsion types, stability mechanisms and rheology: A review, *International Journal of Innovative Research and Scientific Studies*, 1, 14–21.
- Alzohairy, M.A., 2016, Therapeutics Role Of *Azadirachta Indica* (Neem) And Their Active Constituents In Diseases Prevention And Treatment, *Evidence-based Complementary and Alternative Medicine*, 1, 1–11.
- Anggraini, Y., 2012, Pengaruh Etanol dan Asam Oleat Terhadap Penetrasi Transdermal Nanoemulsi Glukosamin secara in Vitro Menggunakan Sel Difusi Franz, Depok.
- Asfar, M., Tjahjaningsih, Y.S., dan Haryono, 2018, Pengendalian Kualitas Produk Bata Ringan AAC dengan Metode Taguchi di PT AFU 28, *Energy J.*, 8, 49–58.
- Aswathanarayan, J.B. dan Vittal, R.R., 2019, Nanoemulsions and Their Potential Applications in Food Industry, *Front Sustain Food Syst*, 3, .
- Atawodi, S.E. dan Atawodi, J.C., 2009, *Azadirachta Indica* (Neem): A Plant Of Multiple Biological And Pharmacological Activities, *Phytochemistry Reviews*, 8, 601–620.
- Azizah, N., Jayuska, A., dan Harlia, 2015, Aktivitas Anti Rayap Ekstrak Daun Jeruk Bali (*Citrus maxima* (Burm.) Merr.) Terhadap Rayap Tanah *Coptotermes* sp., *Jurnal Kimia Khatulistiwa*, 4, 33–39.

- Badawy, M., Abdelgaleil, S., Mahmoud, N., dan Marei, A., 2018, Preparation and Characterizations Of Essential Oil and Monoterpene Nanoemulsions and Acaricidal Activity Against Two-Spotted Spider Mite (*Tetranychus urticae* Koch), *Int. J. Acarol.*, 44, 330–340.
- Bhatt, P. dan Madhav, S., 2011, A Detailed Review on Nanoemulsion Drug Delivery System, *IJPSR*, 2, 2482–2489.
- Cahyandaru, N., Parwoto., Sutopo, Marsis., Siregar, I.Mulia., dan Setyoharjono, Y.Suranto., 2010, *Konservasi cagar budaya berbahan kayu dengan bahan tradisional*, Balai Konservasi Peninggalan Borobudur, Magelang.
- Cahyono, T.D., 2012, Identifikasi Tingkat Serangan dan Jenis Rayap yang Merusak Bangunan di Kota Ambon, *Bimafika*, 3, 393–398.
- Cho, Y.H., Kim, S., Bae, E.K., Mok, C.K., dan Park, J., 2008, Formulation of a Cosurfactant-Free O/W Microemulsion Using Nonionic Surfactant Mixtures, *J. Food Sci.*, 73, 115–121.
- Choupanian, M., Omar, D., Basri, M., dan Asib, N., 2017, Preparation and characterization of neem oil nanoemulsion formulations against *Sitophilus oryzae* and *Tribolium castaneum* adults, *J Pestic Sci*, 42, 158–165.
- Daud, N.S., Musdalipah, dan Lamadari, A., 2017, Formulasi Nanoemulsi Aspirin Menggunakan Etanol 96 % Sebagai Ko-Surfaktan, *Warta Farmasi*, 6, 2089–712.
- Dubhashi, S., Pranay, V., Singaiah, J., Prasad, V.V.L.N., dan Diwan. P. V., 2013, Studies on extraction and HPLC Analysis of Azadirachtin from Kernels of Neem Seeds, *J. Adv. Pharm. Edu. & Res.*, 3, 27–30.
- Ermawati, D.E. dan Putri, A.A., 2022, Pengaruh Kecepatan Pencampuran Terhadap Sifat Fisik Lotion Nano-Ekstrak Etanol Kulit Buah Pisang (*Musa balbisiana* Colla) dan Daun Teh Hijau (*Camellia sinensis* L. Kuntze), *Majalah Farmaseutik*, 18, .
- Ermawati dan Hartati, 2014, Aplikasi Metode Taguchi dalam Pengendalian Kualitas Produksi, *Jurnal Teknosains*, 8, 185–194.
- Fernandes, S.R., Barreiros, L., Oliveira, R.F., Cruz, A., Prudêncio, C., Oliveira, A.I., Pinho, C., Santos, N., dan Morgado, J., 2019, Chemistry, bioactivities, extraction and analysis of azadirachtin: State-of-the-art, *Fitoterapia*, 134, 141–150.
- Girish, K. dan Shankara, B.S., 2008, Neem-A Green Treasure, *Article in Electronic Journal of Biology*, 4, 102–111.

- Gupta, P.K., Pandit, J.K., Kumar, A., Swaroop, P., dan Gupta, S., 2010, Pharmaceutical Nanotechnology Novel Nanoemulsion-High Energy Emulsification Preparation, Evaluation, and Application, *Pharm. Res.*, 3, 117–138.
- Habibi, M., Eka, D., Gunawan, A., Yulianto, H., dan Wahyudi, 2017, Konservasi Cagar Budaya dengan Asap Cair, *Jurnal Konservasi Cagar Budaya Borobudur*, 11, 49–56.
- Haldoko, L.A., Wahyuni, S., dan Gunawan, A., 2021, Konsolidasi Artefak Kayu menggunakan Shellac dan Gelatin, *Jurnal Konservasi Cagar Budaya*, 15, 44–58.
- Hamidi, M., Jovanova, B., dan Panovska, T., 2014, Toxicological evaluation of the plant products using Brine Shrimp (*Artemia salina* L .) model, *Macedonian Pharmaceutical Bulletin*, 60(1), 9–18.
- Handayani, S.S., Amrullah, Fatimah, H., dan Seftiani, R., 2019, The effects of temperature on alpha-cellulose content and extraction result of tobacco stem, *J Phys Conf Ser*, 1280, 1–6.
- Hanifah, L.D., Pradipta, M.F., dan Cahyandaru, N., 2022, Optimasi Kondisi Proses Pembuatan Nanoemulsi Minyak Serai Wangi Dengan Metode Taguchi Sebagai Antijamur Pada Cagar Budaya, *Jurnal Konservasi Cagar Budaya*, 16, 131–147.
- Hastuti, E.D. dan Sukarno, 2020, Formulasi Sediaan Self Nanoemulsifying Drug Delivery System (Snedds) Ekstrak Etil Asetat Buah Parijoto (*Medinilla Speciosa* Blume) serta Uji Stabilitas Fisik, *Cendekia Journal of Pharmacy*, 4, 131–137.
- Idris, F.N., Nadzir, M.M., dan Abd Shukor, S.R., 2020, Optimization of solvent-free microwave extraction of *Centella asiatica* using Taguchi method, *J Environ Chem Eng*, 8, .
- Indiati, S.W. dan Marwoto, 2008, Potensi Ekstrak Biji Mimba Sebagai Insektisida Nabati, *Buletin Palawija*, 9–14.
- Isabella, D.P., Puspawati, G.A.K.D., dan Wiadnyani, A.A.I.S., 2022, Pengaruh Konsentrasi Tween 80 Terhadap Karakteristik Serbuk Pewarna Daun Singkong (*Manihot utilissima* Pohl.) Pada Metode Foam Mat Drying, *Jurnal Ilmu dan Teknologi Pangan*, 11, 112–122.
- Islas, J.F., Acosta, E., G-Buentello, Z., Delgado-Gallegos, J.L., Moreno-Treviño, M.G., Escalante, B., dan Moreno, C.J.E., 2020, An overview of Neem (*Azadirachta indica*) and its potential impact on health, *J Funct Foods*, 74, .

- Jasni dan Rulliaty, S., 2015, Ketahanan 20 Jenis Kayu Terhadap Serangan Rayap Tanah (*Coptotermes Curvignathus Holmgren*) Dan Rayap Kayu Kering (*Cryptotermes Cynocephalus*Light), *Jurnal Penelitian Hasil Hutan*, 33, 125–133.
- Johari, A., Adawia, A.R., dan Wulandari, T., 2022, Tipe Sarang dan Sebaran Jenis Rayap (Isoptera) di Hutan Kota dan Perkebunan Sawit Wilayah Jambi, *Al-Kauniyah: Jurnal Biologi*, 15, 191–198.
- Jones, O., Lesmes, U., Dubin, P., dan McClements, D., 2010, Effect of Polysaccharide Charge on Formation and Properties of Biopolymer Nanoparticles Created by Heat Treatment of B-Lactoglobulin–Pectin Complexes, *Hydrocoll*, 24, .
- Kale, S.N. dan Deore, S.L., 2016, Emulsion micro emulsion and nano emulsion: A review, *Systematic Reviews in Pharmacy*, 8, 39–47.
- Karjiban, R.A., Basri, M., Rahman, M.B.A., dan Salleh, A.B., 2012, Structural Properties of Nonionic Tween80 Micelle in Water Elucidated by Molecular Dynamics Simulation, *APCBEE Procedia*, 3, 287–297.
- Katata-Seru, L., Lebepe, T.C., Aremu, O.S., dan Bahadur, I., 2017, Application of Taguchi method to optimize garlic essential oil nanoemulsions, *J Mol Liq*, 244, 279–284.
- Liew, S.N., Utra, U., Alias, A.K., Tan, T.B., Tan, C.P., dan Yussof, N.S., 2020, Physical, morphological and antibacterial properties of lime essential oil nanoemulsions prepared via spontaneous emulsification method, *LWT-Food Science and Technology Physical*, 128, .
- Lv, F.F., Li, N., Zheng, L.Q., dan Tung, C.H., 2006, Studies on the stability of the chloramphenicol in the microemulsion free of alcohol, *Eur. J Pharm. Biopharm.*, 288–294.
- Maharini, I., Rismarika, dan Yusnelti, 2020, Pengaruh konsentrasi PEG 400 sebagai kosurfaktan pada formulasi nanoemulsi minyak kepayang, *CHEMPUBLISH JOURNAL*, 5, 1–14.
- Marzuki, N.H.C., Wahab, R.A., dan Hamid, M.A., 2019, An overview of nanoemulsion: Concepts of development and cosmeceutical applications, *Biotechnology and Biotechnological Equipment*, 33, 779–797.
- McClements, D.J. dan Rao, J., 2011, Food-Grade Nanoemulsions: Formulation, Fabrication, Properties, Performance, Biological Fate, and Potential Toxicity, *Crit Rev Food Sci Nutr*, 7, 285–330.

- Miftah, A.M., Nur Khalisah, A., dan Ummi Chalsum, dan, 2019, Efektivitas Daun Sirih (*Piper betle* L.) dan Air Leri terhadap Mortalitas Rayap Tanah (*Coptotermes* sp.), *Indonesian Journal of Fundamental Sciences*, 5, 67–72.
- Mishra, R.K., Soni, G.C., dan Mishra, R.P., 2014, A Review Article : On Nanoemulsion, *World J Pharm Pharm Sci*, 3, 258–274.
- Morgan, E.D., 2009, Azadirachtin, a scientific gold mine, *Bioorg Med Chem*, 17, 4096–4105.
- Nugroho, H.B. dan Sari, N.P., 2018, Formulation of Self Nano Emulsifying Drug Delivery System (SNEDDS) Karamunting Leaf Extract (*Rhodymyrtus tomentosa* (Ait.) Hassk) Fomulasi Self Nano Emulsifying Drug Delivery System (SNEDDS) Ekstrak Daun Karamunting (*Rhodymyrtus tomentosa* (Ait.) Hassk), *Jurnal Ilmiah Farmasi*, 14, 1–8.
- Nurdianti, L., Aryani, R., dan Indra, I., 2017, Formulasi dan Karakterisasi SNE (Self Nanoemulsion) Astaxanthin dari *Haematococcus pluvialis* sebagai Super Antioksidan Alami, *Jurnal Sains Farmasi & Klinis*, 4, 36.
- Nurrachmania, M. dan Rozalina, 2021, Identifikasi Dampak Serangan Rayap Pada Gedung di Lingkungan Universitas Simalungun, *Jurnal Akar*, 3, 9–17.
- Okanlawon, F.B., Adegoke, O.A., Olatunji, O.A., Okon-Akan, O.A., dan Akala, A.O., 2020, Effectiveness of Azadirachta indica A. Juss (Neem) Seed Oil in Controlling Wood Termite, *Journal of Applied Sciences and Environmental Management*, 24, 1541–1544.
- Piorkowski, D.T. dan McClements, D.J., 2014, Beverage emulsions: Recent developments in formulation, production, and applications, *Food Hydrocoll*, 42, 5–41.
- Pramita, V.L. dan Murlistyarini, S., 2020, Peran Azadirachtin Dalam Pohon Mimba (*Azadirachta indica* A. juss.) Sebagai Terapi Anti Skabies, *JDVA*, 1, .
- Pranita, S. dan Bajaj, A., 2016, Nanoemulsion - a Review, *IJRPC*, 6, 312–322.
- Pratiwi, L., Fudholi, A., Martien, R., dan Pramono, S., 2018a, Uji Stabilitas Fisik dan Kimia Sediaan SNEDDS (Self-nanoemulsifying Drug Delivery System) dan Nanoemulsi Fraksi etil asetat Kulit Manggis (*Garcinia mangostana* L.), *Trad. Med. J.*, 23, 84–90.
- Pratiwi, L., Fudholi, A., Martien, R., dan Pramono, S., 2018b, Uji Stabilitas Fisik dan Kimia Sediaan SNEDDS (Self-nanoemulsifying Drug Delivery System) dan Nanoemulsi Fraksi Etil Asetat Kulit Manggis (*Garcinia mangostana* L.) Fraction of *Garcinia mangostana* L, *Traditional Medicine Journal*, 23, 84–90.

- Puspitasari, D.A., Rahmawati, N., Putri, N.K., dan Fajar, M., 2022, Nanoemulsi Ekstrak Wortel dan Virgin Coconut Oil sebagai suplemen ProVitamin A untuk Mencegah Kekurangan Vitamin A, *agriTECH*, 42, 65.
- Puteri, I.T., Jayuska, A., dan Alimuddin, A.H., 2016, Aktivitas Antirayap Daun Gaharu (*Aquilaria malaccensis* Lam.) terhadap Rayap Tanah *Coptotermes* sp, *JKK*, 5, 6–14.
- Putri, N.E., Nurahmanto, D., dan Rosyidi, V.A., 2021, Optimasi Tween 80 dan Propilen Glikol dalam Self -Nanoemulsifying Drug Delivery System (SNEDDS) Minyak Atsiri Daun Kemangi (*Ocimum basilicum*), *Journal Pustaka Ilmu Kesehatan*, 9, 2021.
- Rahma, A.A., 2020, Potensi Sumber Daya Alam dalam Mengembangkan Sektor Pariwisata di Indonesia, *Jurnal Nasional Pariwisata*, 12, .
- Ramadhani, D. dan Widiyanti, N., 2022, Pengaruh Formulasi Serum Nanoemulgel Terhadap Aktivitas Antioksidan Ekstrak Daun Kelor, *Jurnal Syntax Fusion*, 2, 714–729.
- Raouf, M.E.S.A.R., 2012, Factors Affecting the Stability of Crude Oil Emulsions, Crude Oil Emulsions- Composition Stability and Characterization, Petroleum Application Department Egyptian Petroleum Research Institute , Egypt.
- Rowe, R.C., Sheskey, P.J., dan Quinn, M.E., 2009, Handbook of Pharmaceutical Exipients, 6th ed. Rowe,R.C., Sheskey,P.J., and Quinn,M.E. (eds) Pharmaceutical Press, USA.
- Sadeq, Z.A., 2020, Review on nanoemulsion: Preparation and evaluation, *International Journal of Drug Delivery Technology*, 10, 187–189.
- Saenong, M.S., 2017, Tumbuhan Indonesia Potensial sebagai Insektisida Nabati untuk Mengendalikan Hama Kumbang Bubuk Jagung (*Sitophilus* spp.), *Jurnal Penelitian dan Pengembangan Pertanian*, 35, 131.
- Sarah, R., Tabassum, B., Idrees, N., dan Hussain, M.K., 2019, Bioactive compounds isolated from neem tree and their applications,. In, *Natural Bio-active Compounds: Production and Applications*. Springer Singapore, pp. 509–528.
- Sari, A.I. dan Herdiana, Y., 2017, Review: Formulasi Nanoemulsi Terhadap Peningkatan Kualitas Obat, *Farmaka*, 16, 247–254.
- Sari, V.S., 2019, Identifikasi Kerusakan Nisan Kayu Kompleks Makam Raja-Raja Hadat Banggae, Kabupaten Majene, Provinsi Sulawesi Barat, *Jurnal Tumotowa*, 2, 47–59.

- Shabrina, A. dan Khansa, I.S.M., 2022, Stabilitas Fisik Nanoemulsi Minyak Sea Buckthorndengan Variasi Tween 80 sebagai Surfaktan, *Indonesian Journal of Pharmaceutical Science and Technology Journal Homepage*, 1, 14–21.
- Shafiq-un-Nabi, S., Shakeel, F., Talegaonkar, S., Ali, J., Baboota, S., Ahuja, A., Khar, R.K., dan Ali, M., 2007, Formulation development and optimization using nanoemulsion technique: A technical mote, *AAPS PharmSciTech*, 8, .
- Sharma, N., Bansal, M., Visht, S., Sharma, P.K., dan Kulkarni, G.K., 2010, Nanoemulsion: A new concept of delivery system, *Chronicles of Young Scientists*, 1, 2–6.
- Siqhny, Z.D., Azkia, M.N., dan Kunarto, B., 2020, Karakteristik Nanoemulsi Ekstrak Buah Parijoto (*Medinilla speciosa* Blume), *Jurnal Teknologi Pangan dan Hasil Pertanian*, 15, 1.
- Sonhafouo, V.M., Kana, J.R., dan Nguepi Dongmo, K., 2019, Effects of graded levels of *Azadirachta indica* seed oil on growth performance and biochemical profiles of broiler chickens, *Vet Med Sci*, 5, 442–450.
- Stephanie, 2015, Pengaruh Variasi Fase Minyak Virgin Coconut Oil dan Medium Chain Triglycerides Oil terhadap Stabilitas Fisik Nanoemulsi Minyak Biji Delima dengan Kombinasi Surfaktan Tween 80 dan Kosurfaktan PEG 400, Yogyakarta.
- Subekti, N. dan Fadhila, A., 2023, Termite Identification Attacks on Buildings, *Biosaintifika*, 15, 255–261.
- Sutandar, E., Juniardi, F., dan Syahrudin, 2021, Sifat Fisis dan Mekanis Kayu Bengkirai, *Jurnal Teknik Sipil Universitas Tanjungpura*, 21, 1–8.
- Tampubolon, A.E., Oemry, S., dan Lubis, L., 2015, Uji Daya Hidup Rayap Tanah (*Coptotermes curvignathus* Holmgren) (Isoptera : Rhinotermitidae) dalam Berbagai Media Kayu di Laboratorium, *Jurnal Online Agroteknologi*, 3, 864–869.
- Tyagi, R., Sharma, P., Nautiyal, R., Lakhera, A.K., dan Kumar, V., 2020, Synthesis of quaternised guar gum using Taguchi L(16) orthogonal array, *Carbohydr Polym*, 237, .
- Wahyuni, S., Diah Puspita Rini, W., Kasatriyanto, B., Widyo Purwoko, A., dan Rachmat, B., 2017, Minyak Atsiri untuk Konservasi Cagar Budaya Berbahan Batu Tahap II, *Jurnal Konservasi Cagar Budaya Borobudur*, 11, 29–39.
- Wahyuni, S., Laili, Z., dan Purwoko, A.W., 2021, Emulsi Sereh Wangi untuk Konservasi Cagar Budaya Berbahan Batu dan Bata, *Jurnal Konservasi Cagar Budaya*, 15, 18–33.

- Wahyuningsih, I. dan Putranti, W., 2015, Optimasi Perbandingan Tween 80 dan Polietilenglikol 400 pada Formula Self Nanoemulsifying Drug Delivery System (SNEDDS) Minyak Biji Jinten Hitam, *Pharmacy*, 12, 223–241.
- Wibawa, I.P.A.H., 2019, Uji Efektivitas Ekstrak Mimba (*Azadirachta indica* A. Juss.) untuk Mengendalikan Hama Penggerek Daun pada Tanaman *Podocarpus neriifolius*, *Jurnal Agroteknologi Tropika*, 8, 20–31.
- Wibisono, H.S., Jasni, J., dan Arsyad, W.O.M., 2018, Komposisi Kimia dan Keawetan Alami Delapan Jenis Kayu di Bawah Naungan, *Jurnal Penelitian Hasil Hutan*, 36, 59–65.
- Widyastuti, A.I. dan Saryanti, D., 2023, Formulasi dan Evaluasi Sediaan Nanoemulsi Ekstrak Umbi Bawang Putih (*Allium sativum* L.), *Jurnal Sains dan Kesehatan*, 5, 178–185.
- Wulandari, A.A., Wuryandari, T., dan Ispriyanti, D., 2016, Penerapan Metode Taguchi Untuk Kasus Multirespon Menggunakan Pendekatan Grey Relational Analysis dan Principal Component Analysis (Studi Kasus Proses Freis Komposit GFRP), *JURNAL GAUSSIAN*, 5, 791–800.
- Wuryandari, T., Widiharih, T., dan Anggraini, S.D., 2009, Metode Taguchi untuk Optimalisasi Produk pada Rancangan Faktorial, *Media Statistika*, 2, 81–92.
- Yuliani, S.H., Hartini, M., Stephanie, Pudyastuti, B., dan Istyastono, E.P., 2016, Comparison of Physical Stability Properties of Pomegranate Seed Oil Nanoemulsion Dosage Forms with Long-Chain Triglyceride and Medium-Chain Triglyceride as the Oil Phase, *Tradit. Med. J.*, 21, 3–7.
- Zulfa, E., Novianto, D., dan Setiawan, D., 2019, Formulasi Nanoemulsi Natrium Diklofenak dengan Variasi Kombinasi Tween 80 dan Span 80: Kajian Karakteristik Fisik Sediaan, *Media Farmasi Indonesia*, 14, 1472–1477.