

DAFTAR PUSTAKA
www.itk.ac.id

- Al-Rawi, S. S., Ibrahim, A. H., Majid, A. S. A., Majid, A. M., A., dan Kadir, M. O. A. (2013), “Comparison of Yields and Quality of Nutmeg Butter Obtained by Extraction of Nutmeg Rind by Soxhlet and Supercritical Carbon Dioxide (SC-CO₂)”, *Journal of Food Engineering*, Vol. 119, hal. 595-601.
- Amelia, R., Sudarso, dan Hartanti, D. (2010), “Aktivitas Antibakteri Gel Ekstrak Lengkuas (*Alpinia Galanga*) Terhadap *Pseudomonas Aeruginosa* dan *Bacillus Subtilis*”, *Pharmaceutical Journal of Indonesia*, Volume 7, No. 3.
- Ammar, A. H., Meniai, A., dan Zagrouba, F. (2014), “Experimental Study and Modeling of Essential Oil Extraction from Plants by Hydrodistillation”, *Chemical Engineering Technology*, Vol. 7, No. 7, hal. 1235-1242.
- Azelan. N. A., Aziz, R., dan Hasham, R.(2018), “Optimisation of Essential Oil Yield and Zerumbone Content in Zingiber Zerumbet Extract Using Hydrodistillation Process”, *Chemical Engineering Transactions*, Vol. 63, hal. 595-600.
- Bhuiyan, MD.N.I., Begum, J., dan anwar, M.N. (2008). “ Essential Oils of Leaves and Rhizomes of *Kaempferia galanga linn* ”, *Chittagong University Journal of Biological Sciences*, Vol. 3, hal. 65-76.
- Browne, M. W., dan Cudeck, R. (1993), “Alternative Ways of Assessing Model Fit”, *Testing Structural Equation Models*, hal. 136-162.
- Chen, F., Yu, G., Jie, K., Xiaohui, Y., Ziyue, Z., Shasha, L., Yibo, M., Wenbin, G., dan Duqiang, L. (2020), “Insight Into The Essential Oil Isolation from *Foeniculum Vulgare* Mill. Fruits Using Double-Condensed Microwave-Assisted Hidrodistilasi and Evaluation of Its Antioxidant, Antifungal and Cytotoxic Activity”, *Industrial. Crops and. Products*, Vol. 144.
- Chen, F., Zhang, Q., Gu, H., dan Yang, L. (2018), “A Modified Approach for Separating Essential Oil from The Roots and Rhizomes of *Asarum Heterotropoides*”, *Journal of Essential Oil Research*, Vol. 30, hal. 100-104.

Poides Var.Mandshuricum”, *Journal of Cleaner Production*, Vol. 172, hal. 2075–2089. www.itk.ac.id

Chen, F., Zu, Y., dan Yang, L. (2015), “A Novel Approach for Isolation of Essential Oil from Fresh Leaves of Magnolia Sieboldi Using Microwave-Assisted Simultaneous Distillation and Extraction”, *Separation and Purification Technology*, Vol. 154, hal. 271-280.

Covelo. E.F, Andrade, M. L., dan Vega, F. A. (2004). “Heavy Metal Adsorption by Humic Umbrisols: Selectivity Sequences and Competitive Sorption Kinetics”, *Journal of Colloid and Interface Science*, Vol. 280, No. 1, hal. 1-8.

Cui, H., Pan, H., Wang, P., Yang, X., Zhai, W., Dong, Y., Zhou, H. (2018), “Essential Oils from Carex Meyeriana Kunth: Optimization of Hydrodistillation Extraction by Response Surface Methodology and Evaluation of Its Antioxidant and Antimicrobial Activities”, *Indsutrial Crops and Products*, Vol. 124, hal. 669-676.

Fachrudin, A. I. V., Mahfud, dan Qadariyah L. (2016), “Ekstraksi Minyak Bunga Cempaka dengan Metode Hidrodistilasi dan Hidrodistilasi dengan Aliran Udara”, *Jurnal Teknik ITS*, Vol. 5, No. 2.

Ferreira, S.L.C., Brun, R.E., Ferreira, H.S., Matos, G.D., David, J.M., Brandao, G.C., da Silva, E.G.P., Portugal, L.A., dos Reis, P.S., Souza, A.S., dos Santos, W.N.L. (2007). “Box-Behnken Design: An Alternative for The Optimization of Analytical Methods”, *Analytica Chimica Acta*, Vol. 597, hal. 179–186.

Fotheringham, A. S., Brundson, C., Chaltron, M. (2002), “Geographically Weighted Regression: The Analysis of Spatially Varying Relationships”, England, John Wiley & Sons Ltd.

Hadiyat, M. A. (2012), “Response-Surface Dan Taguchi : Sebuah Alternatif atau Kompetisi Dalam Optimasi Secara Praktis”, *Proseding Seminar Nasional Industrialisasi Madura*, Universitas Trunojoyo Madura.

Haloui, T., Farah, A., Lebrazi, S. ,Fadil M., Alaoui, A. B. (2018), “ Application of Response Surface Methodology for The Optimization of Hydro-Distillation Extraction of *Pistacia Lentiscus* L. Essential Oil”, *Journal of Applied Pharmaceutical Science*, Vol. 8, No. 01, hal. 050-054.

Hu, B., Zhou, K., Liu, Y., Liu, A., Zhang, Q., Han, G., Liu, S., Yang, Y., Zhu, Y., dan Zhu, D. (2018). “Optimization ff Microwave-Assisted Extraction of Oil from Tiger Nut (*Cyperus Esculentus* L.) and Its Quality Evaluation”, *Indsutrial Crops and Products*, Vol. 115, hal. 290–297.

Jolly, W. M., dan Hadlow, A. M. (2012), “A Comparison of Two Methods for Estimating Conifer Live Foliar Moisture Content”, *International Journal of Wildland Fire*, Vol. 21, hal. 180–185.

Juwono, C. P., dan Dyana, S. (2007), “Penggunaan Response Surface Methodology dalam Penelitian Level Parameter Produksi untuk Meminimasi Penyimpangan Ukuran Ubin Keramik”, *Jurnal Teknik Industri, Universitas katolik parahyangan*.

Kaharuddin. (2017). “Optimasi Produksi Minyak Cengkeh Berdasarkan Kerapatan Bahan dan Lama Penyulingan”, *Tesis, Universitas Hasanuddin, Makassar*.

Khasanah, L. U., Kawiji, Utami, R., dan Aji, Y. M. (2015). “Pengaruh Perlakuan Pendahuluan Terhadap Karakteristik Mutu Minyak Atsiri Daun Jeruk Purut (*Citrus hystrix* DC)”, *Jurnal Aplikasi Teknologi Pangan*, Vol. 4, No. 2.

Kusuma, H. S., Altway, A., dan Mahfud. (2018), “Solvent-free Microwave Extraction of Essential Oil from Dried Patchouli (*Pogostemon Cablin* Benth) Leaves”, *Journal of Industrial and Engineering Chemistry*, Vol. 58, hal. 343–348.

Kusuma, H. S., dan Mahfud. (2015a), “Box-Behnken Design for Investigation of Microwave-Assisted Extraction of Patchouli Oil”, *International Conference of Chemical and Material Engineering*.

Kusuma, H. S., dan Mahfud. (2015b), “Microwave-Assisted Hydrodistillation for Extraction of Essential Oil from Patchouli (Pogostemon Cablin) Leaves”, *Periodica Polytechnica Chemical Engineering*, Vol. 61, No. 2, hal. 82-89.

Liu, Z., Deng, B., Li, S., dan Zou, Z., (2018), “Optimization of Solvent-Free Microwave Assisted Extraction of Essential Oil from Cinnamomum Camphora Leaves”, *Indsutrial Crops and Products*, Vol. 124, hal. 353-362.

Madhumita, M., Guha, P., dan Nag, A.. (2019), “Optimization of The Exhaustive Hydrodistillation Method in The Recovery of Essential Oil from Fresh and Cured Betel Leaves (*Piper Betle L.*) Using The Box–Behnken Design”, *Journal Food Processing and Presservation*, hal. 1-14.

Mahfud, Darmawan, M. D., Diamanta, D. H., dan Kusuma, H. S. (2017), “Extraction of Essential Oil from Bangle (*Zingiber Purpureum Roxb.*) by Hydrodistillation and Steam Distillation Methods”, *Journal of Chemicial Technology and Metallurgy*, Vol. 52, hal. 791-796.

Marković, M.S., Svetomir, Ž.M., Nevenka, M.B.V., Vladimir, P.P., Ljiljana, M.B., Vlada, B.V. (2019). “A New Kinetic Model for The Common Juniper Essential Oil Extraction by Microwave Hydrodistillation”, *Chinese Journal of Chemical Engineering*, Vol. 27, hal. 605-612.

Marković. M. S, Radosavljević, D. B., Pavićević, V. P., S. Ristić, M. S., Milojević, S. Ž., Bošković-Vragolović, N. M., Veljković, V. B. (2018), “Influence of Common Juniper Berries Pretreatment on The Essential Oil Yield,Chemical Composition and Extraction Kinetics of Classical and Microwaveassisted Hydrodistillation”, *Industrial Corps & Products*, Vol. 122, hal. 402-413.

Megawatia, F., Sediawan, D.S., Hisyam, W.B., Anwaruddin. (2019). “Kinetics of Mace (*Myristicae Arillus*) Essential Oil Extraction Using Microwave

Assisted Hydrodistillation: Effect of Microwave Power”, *Industrial Corps & Products*, Vol. 131, hal. 315-322.

Melati, N.S. (2012). “Aplikasi Response Surface Methodology (RSM) Dalam Optimasi Parameter Proses Pada Mie Instan Indomie di PT Indofood Cbp Sukses Makmur, Tbk. Divisi Noodle Cabang Jakarta”, Skripsi, Fakultas Teknologi Pertanian, Institut Pertanian Bogor.

Meziane, I.A.A., Bali, N., Belblidia, N.B., Abatzoglou, N., Benyoussef, E. (2019). “The First-Order Model in The Simulation of Essential Oil Extraction Kinetics”, *Journal of Applied Research on Medicinal and Aromatic Plants*, Vol. 15.

Milojević, S.Z., Radosavljević, D.B., Pavićević, V.P., Pejanović, S. (2013). “Modeling The Kinetics of Essential Oil Hidrodistilasi from Plant Materials”, *Hemija Industrija*, Vol. 67, hal. 843–859.

Milojevic, S.Z., Stojanovic, T.D., Palic, R., Lazic, M.L., Veljkovic, V.B. (2008). “Kinetics of Distillation of Essential Oil from Comminuted Ripe Juniper (*Juniperus communis L.*) berries”, *Biochemical Engineering Journal*, Vol. 39, hal. 547-553.

Montgomery, DC. (2001). “Design and Analysis of Experiments 5th Edition”. New York: John Wiley & Sons, Inc.

Nurcahyo, Heru. (2016). “Hasil Rendemen Minyak Atsiri Serbuk Sangat Halus Rimpang Kering Temulawak (*Curcuma Xanthorrhiza Roxb.*) dengan Metode Destilasi”, *Jurnal Ilmiah Farmasi*, Vol. 5 No. 1.

Nuryanti, dan Salimy DH. (2008). “Metode Permukaan Respon dan Aplikasinya Pada Optimasi Eksperimen Kimia”, Risalah Lokakarya Komputasi dalam Sains dan Teknologi Nuklir : 6-7 Agustus, 2008, hal 373-391.

Parikh, J.K., dan Desai, M.A. (2011). “Hydrodistillation of Essential Oil from *Cymbopogon flexuosus*”, *International Journal of Food Engineering*, Vol. 7 No. 1.

Perović, A., Stanković, M.Z., Veljković, V.B., Kostić, M.D., Stamenković, O.S. (2020). “A Further Study of The Kinetics and Optimization of The Essential Oil Hydrodistillation from Lavender Flowers”, *Chinese Journal of Chemical Engineering* 1805.

Purba, EC. (2015). “Etnobotani Masyarakat Etnis Karo di Kecamatan Merdeka Sumatera Utara”, Tesis, Departemen Biologi FMIPA, Universitas Indonesia, Depok.

Qorriaina, R., Hawa, L.C., dan Yulianingsih, R. (2015). “Aplikasi Pra-Perlakuan *Microwave Assisted Extraction* (MAE) Pada Ekstrak Daun Kemangi (*Ocimum sanctum*) Menggunakan Rotary Evaporator (Studi Pada Variasi Suhu dan Waktu Ekstraksi)”, *Jurnal Bioproses Komoditas Tropis*, Vol. 3 No. 1

Rezazi, S., Hanini, S., Moussa, C.S., Abdelmalek, S. (2017). “Kinetic Modeling and Parameters Identification Based on Metaheuristic Optimization Techniques for Extraction Process of *Marrubium vulgare* L. Essential Oil”, *Journal of Agricultural Science and Technology*, Vol. 19, hal. 307-322.

Shahril, M. (2006). “Optimization of Hydro Distillation Conditions for The Production of Essential Oil from *Alpinia galangal*”, Thesis, University College of Engineering & Technology Malaysia.

Silalahi, M. (2017). “Essensial Oil Pada *Alpinia galanga* (L.) willd. dan Pemanfaatannya”, Jakarta: Universitas Kristen Indonesia.

Sinaga, E. (2009). *Alpina Galangga (L) Will.* http://free.vlsm.org/v12/artikel/ttg_tanaman_obat/unas/Lengkuas. [diakses pada tanggal 13 Juli 2020]

Sodeifian, G., Sajadian, S.A., dan Ardestani, N.S. (2017). “Experimental Optimization And Mathematical Modeling Of The Supercritical fluid Extraction Of Essential Oil From *Eryngium Billardieri*: Application Of

Simulated Annealing (SA) Algorithm”, *Journal of Supercrit Fluids*, Vol. 127, hal. 146–157. www.itk.ac.id

Stanojevic, L., Stankovic, M., Cakic, M., Nikolic,V., Nikolic, L., Ilic, D., Radulovic, N. (2011). ”The Effect of Hydrodistillation Techniques on Yield, Kinetics, Composition and Antimicrobial Activity of Essential Oils from Flowers of *Lavandula Officinalis L*”. *Hemiska Industrija*, Vol. 65 No 4, hal. 455-463.

Sukatta, U., Rugthaworn, P., Punjee, P., Chidchenchey, S., Keeratinijakal, V. (2009). “Chemical Composition and Physical Properties of Oil from Plai (*Zingiber cassumunar Roxb.*) Obtained by Hydro Distillation and Hexane Extraction”, *Kasetsart Journal - Natural Science*, Vol. 43, hal. 212 – 217.

Supardan,M.D., Ruslan, Satriana, Arpi, N. (2009). “Hidrodistilasi Minyak Jahe (*Zingiber Officinale Rosc.*) Menggunakan Gelombang Ultrasonik”, *Reaktor*, Vol. 12 No 4, hal. 239-244.

Suryaningrum, R., Purwanto, E., dan Sumiyati. (2016). “Analisis Pertumbuhan Beberapa varietas Kedelai pada Perbedaan Intensitas Cahaya kekeringan”, Agrosains Jurnal Penelitian Agronomi, Vol. 18 No 2, hal. 33-37.

Yi Peng, T., Don, M.M., dan Tahrel, M.A. (2012). “Optimisation and Kinetics Studies on The Extraction of Essential Oil from *Zingiber Cassumunar*”, *Journal of Physical Science*, Vol. 23 No 1, hal. 65-82.

Yustinah, dan Fanandara, D. (2016). “Ekstraksi Minyak Atsiri Dari Kulit Jeruk Sebagai Bahan Tambahan Pada Pembuatan Sabun”, *Jurnal Konversi*, Vol. 5 No 1.

Zhang, Y.F., Liu, Z., Li, Y.L., Chi, R. (2014). “Optimization of Ionic Liquid-Based Microwaveassisted Extraction of Isoflavones from *Radix Puerariae* by Response Surface Methodology”, *Separation and Purification Technology*, Vol. 129, hal. 71–79.