

## DAFTAR PUSTAKA

- Abast, M.A., Koleangan, H.S.J., dan Pontoh, J., 2015. Analisis Asam Lemak dalam Minyak Kelapa Murni Menggunakan Derivatisasi Katalis Basa. *Jurnal MIPA UNSRAT Online*, **5** (1): 29-31.
- Aditia, R.P. dan Darmanto, Y.S., 2014. Perbandingan Mutu Minyak Ikan Kasar yang Diekstrak dari Berbagai Jenis Ikan yang Berbeda. *Jurnal Pengolahan dan Bioteknologi Hasil Perikanan*, **3** (3): 55-60.
- Agustini, T.W., Susilowati, I., Setyati, W.A., dan Wibowo, B.A., 2010. Will Soft-Boned Milkfish – A Traditional Food Product from Semarang City, Indonesia – Breakthrough the Global Market? *Journal of Coastal Development*, **14** (1): 81-90.
- Aji, D.W. dan Hidayat, M.N., 2010. Optimasi Pencampuran Carbon Active Dan Bentonit Sebagai Adsorben Dalam Penurunan Kadar Ffa (Free Fatty Acid) Minyak Goreng Bekas Melalui Proses Adsorpsi. *Jurnal Teknik Kimia*, **1** (1): 1–5.
- Akowuah, G., Zhari, I., Norhayati, I., Sadikun, A., dan Khamsah, S., 2004. Sinensetin, eupatorin, 3'-hydroxy-5, 6, 7, 4'-tetramethoxyflavone and rosmarinic acid contents and antioxidative effect of *Orthosiphon stamineus* from Malaysia. *Food Chemistry*, **87**: 559–566.
- Andhiarto, Y. dan Wijaya, S., 2018. Perbandingan Kualitas Suplemen Minyak Ikan Layang (*Decapterus ruselli*) Menggunakan Bentonit Dengan Berbagai Konsentrasi Pada Tahap Bleaching. *PHARMACY: Jurnal Farmasi Indonesia (Pharmaceutical Journal of Indonesia)*, **15** (2): 209.
- Andhikawati, A., Permana, R., dan Akbarsyah, N., 2020. Karakteristik Minyak Ikan Lemuru Yang Disimpan Selama 30 Hari Pada Suhu Rendah (5°C). *Jurnal Akuatek*, **1** (1): 46–52.
- Anwar, R.N., 2016. Pemanfaatan Bentonit Teraktivasi Asam Klorida Untuk Pengolahan Minyak Goreng Bekas. *Indonesian Journal of Chemical Sciences*, **5** (3).
- AOAC, 1990. *Official Methods of Analysis*.
- AOAC: Official Methods of Analysis (Volume 1), 1990. 771.
- Apituley, D.A.N., Sormin, R.B.D., dan Nanlohy, E.E.E.M., 2020a. Karakteristik dan Profil Asam Lemak Minyak Ikan dari Kepala dan Tulang Ikan Tuna (*Thunnus albacares*). *Agritekno: Jurnal Teknologi Pertanian*, **9** (1): 10–19.
- Apituley, D.A.N., Sormin, R.B.D., dan Nanlohy, E.E.E.M., 2020b. Karakteristik dan Profil Asam Lemak Minyak Ikan dari Kepala dan Tulang Ikan Tuna (*Thunnus albacares*). *Agritekno: Jurnal Teknologi Pertanian*, **9** (1): 10–19.
- Archibong, A.E., Rideout, M.L., Harris, K.J., dan Ramesh, A., 2018. Oxidative stress in reproductive toxicology. *Current Opinion in Toxicology*, **7**: 95–101.
- Ardi, L., 2019. Manfaat Omega-3 Parenteral di Dunia Medis. *Continuing Professional Development*, **46**: 4.
- Ayu, D.F. dan Diharmi, A., 2019. Karakteristik Minyak Ikan Dari Lemak Abdomen Hasil Samping. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **22** (1): 11.

- Bako, T., Umogbai, V.I., dan Awulu, J.O., 2017. Criteria for the extraction of fish oil, *Agricultural Engineering International: CIGR Journal*, **19** (3): 120-132.
- Beccaria, M., Costa, R., Sullini, G., Grasso, E., Cacciola, F., Dugo, P., dkk., 2015. Determination of the triacylglycerol fraction in fish oil by comprehensive liquid chromatography techniques with the support of gas chromatography and mass spectrometry data. *Analytical and Bioanalytical Chemistry*, **407**: 5211–5225.
- Berthomieu, C. dan Hienerwadel, R., 2009. Fourier transform infrared (FTIR) spectroscopy. *Photosynthesis Research*, **101**: 157–170.
- Bonilla, J.R. dan Hoyos Concha, J.L., 2018. Métodos de extracción, refinación y concentración de aceite de pescado como fuente de ácidos grasos omega-3. *Ciencia y Tecnología Agropecuaria*, **19** (3): 645-668.
- Chakraborty, K. dan Joseph, D., 2015. Cooking and pressing is an effective and eco-friendly technique for obtaining high quality oil from *Sardinella longiceps*. *European Journal of Lipid Science and Technology*, **117**: 837–850.
- Chong, C.L., 2012. Measurement and Maintenance of Palm Oil Quality, dalam: Palm Oil: Production, Processing, Characterization, and Uses. *AOCS Press*, 431–470.
- Dari, D.W., Astawan, M., dan Suseno, S.H., 2018a. Characteristics of Sardin Fish Oil (*Sardinella* sp.) Resulted from Stratified Purification. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **20** (3): 456.
- Dari, D.W., Astawan, M., dan Suseno, S.H., 2018b. Characteristics of Sardin Fish Oil (*Sardinella* sp.) Resulted from Stratified Purification. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **20** (3): 456.
- Dewi, E.N., Purnamayati, L., dan Kurniasih, R.A., 2019. The Quality Changes of Milkfish (*Chanos chanos* Forsk.) as Influenced by Different Heat Processing Methods. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **22** (1): 41.
- Dijkstra, A.J., 2016. Vegetable Oils: Composition and Analysis, dalam: *Encyclopedia of Food and Health*. Elsevier, hal. 357–364.
- EL-Gindy, A. dan Hadad, G.M., 2012. Chemometrics in Pharmaceutical Analysis: An Introduction, Review, and Future Perspectives. *Journal of AOAC International*, **95** (3): 609–623.
- Estiasih, T., 2009. *Minyak Ikan: Teknologi & Penerapannya Untuk Pangan Dan Kesehatan*. Yogyakarta: Graha Ilmu.
- Falistin, N.B., 2015. Pengaruh Tahapan Pengolahan Terhadap Kualitas Kandungan Lemak Bandeng (*Chanos Chanos Forks*) Presto Goreng. *Jurnal Pengolahan dan Bioteknologi Hasil Perikanan*, **4** (2): 93-99.
- Feijó, P.M., Rodrigues, V.D., Viana, M.S., dos Santos, M.P., Abdelhay, E., Viola, J.P., dkk., 2019. Effects of  $\omega$ -3 supplementation on the nutritional status, immune, and inflammatory profiles of gastric cancer patients: A randomized controlled trial. *Nutrition*, **61**: 125–131.
- Feuillet, V., Canard, B., dan Trautmann, A., 2021a. Combining Antivirals and Immunomodulators to Fight Covid-19. *Trends in Immunology*, **42** (1): 31–44.

- Feuillet, V., Canard, B., dan Trautmann, A., 2021b. Combining Antivirals and Immunomodulators to Fight Covid-19. *Trends in Immunology*, **42** (1): 31–44.
- Habib, A., Biswas, S., Siddique, A.H., M, M., Uddin, B., dan Hasan, S., 2015. Nutritional and Lipid Composition Analysis of Pumpkin Seed (*Cucurbita maxima* Linn). *Journal of Nutrition & Food Sciences*, **05**: 1–6.
- Hafiludin, 2015. Analisis Kandungan Gizi Pada Ikan Bandeng Yang Berasal Dari Habitat Yang Berbeda. *Jurnal Kelautan*, **8**: 1.
- Hastarini, E., Fardiaz, D., Irianto, H.E., dan Budijanto, S., 2012. Karakteristik Minyak Ikan dari Limbah Pengolahan Filet Ikan Patin Siam (*Pangasius hypophthalmus*) dan Patin Jambal (*Pangasius djambal*). *Agritech*, **32** (4): 8.
- IFOS, 2011. 'International Fish Oil Standards (IFOS)', <http://www.nutrasource.ca/consumer-programs/international-fish-oil-standards-ifos/>. URL: (diakses tanggal 24/7/2020).
- Irnawati, Riyanto, S., Martono, S., dan Rohman, A., 2019. The employment of FTIR spectroscopy and chemometrics for authentication of pumpkin seed oil from sesame oil. *Food Research*, **4** (1): 42–48.
- Isa, I., 2011. Penetapan Asam Lemak Linoleat Dan Linolenat Pada Minyak Kedelai Secara Kromatografi Gas. *Saintek*, **6**: 1.
- Kamini, K., Suptijah, P., Santoso, J., dan Suseno, S.H., 2017. Extraction by Dry Rendering Methode and Characterization Fish Oil of Catfish Viscera Fat by Product of Smoked Fish Processing. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **19** (3): 196.
- Kantun, W., Malik, A.A., dan Harianti, 2015. Kelayakan limbah padat tuna loin madidihang *Thunnus albacares* untuk bahan baku produk diversifikasi. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **18**: 303–314.
- Kartini, K., Lis Arifa Dwi, P., dan Mochammad Arbi, H., 2020. FTIR-based fingerprinting and discriminant analysis of *Apium graveolens* from different locations. *Journal of Applied Pharmaceutical Science*, **10** (12): 62–67.
- Kasmudjiastuti, E., Griyanitasari, G., Rahmawati, D., dan Sugihartono, S., 2018. Sintesis dan karakterisasi minyak kelapa sawit untuk agensia peminyakan pada penyamakan kulit. *Majalah Kulit, Karet, dan Plastik*, **34** (1): 19–26.
- Khoddami, A., Ariffin, A.A., Bakar, J., dan Ghazali, H.M., 2012. Quality and fatty acid profile of the oil extracted from fish waste (head, intestine and liver) (*Euthynnus affinis*). *African Journal of Biotechnology*, **11** (7): 1683–1689.
- Khotimah, K., Darius, dan Sasmito, B.B., 2013. Uji Aktivitas Senyawa Aktif Alga Coklat (*Sargassum Fillipendulla*) Sebagai Antioksidan Pada Minyak Ikan Lemuru (*Sardinella Longiceps*). *Thpi Student Journal*, **1** (1): 10–20.
- Lobo, V., Patil, A., Phatak, A., dan Chandra, N., 2010. Free radicals, antioxidants and functional foods: Impact on human health. *Pharmacognosy Reviews*, **4** (8): 118.
- Lumakso, F.A., Riyanto, S., Ahmad, S.A.S., Rosman, A.S., Yusoff, F.M., dan Rohman, A., 2015. Application of chemometrics in combination with Fourier Transform Mid Infrared spectroscopy for authentication of avocado oil. *Journal of Food and Pharmaceutical Sciences*, **2**: 12–17.

- Lusas, E.W., Alam, M.S., Clough, R.C., dan Riaz, M.N., 2012. Animal And Vegetable Fats, Oils, And Waxes, dalam: *Handbook of Industrial Chemistry and Biotechnology, Dalam Kent, J. A. (Ed.)*. Springer US, hal. 1323–1402.
- Malle, S., Tawali, A.B., Tahir, M.M., dan Bilang, M., 2019. Nutrient composition of milkfish (*Chanos chanos*, Forskal) from Pangkep, South Sulawesi, Indonesia. *Malaysian Journal of Nutrition*, **25** (1): 155–162.
- Mansur, A.A.P. dan Nascimento, O.L., 2008. Chemical Functionalization of Ceramic Tile Surfaces by Silane Coupling Agents: Polymer Modified Mortar Adhesion Mechanism Implications. *Materials Research*, **11** (3): 293–302.
- Maulana, I.T., Sari, R.W., Partina, R.S., dan Azizah, I.N., 2020. Telaah Kandungan Asam Lemak Esensial Dalam Empat Jenis Minyak Ikan Konsumsi Di Jawa Barat. *Jurnal Ilmiah Farmasi Farmasyifa*, **3** (2): 92–101.
- Miller, J.N. dan Miller, J.C., 2005. *Statistics and Chemometrics for Analytical Chemistry*. Pearson Prentice Hall, Harlow, England; New York.
- Miller, J.N. dan Miller, J.C., 2010. *Chemometrics for Analytical*, Sixth Edit. Essex CM20 2JE. Pearson Education Limited.
- Mustafidah, M., Irnawati, I., Lukitaningsih, E., dan Rohman, A., 2021. Authentication analysis of milkfish fish oil using the combination of FTIR spectroscopy and chemometrics. *Food Research*, **5** (2): 272–278.
- Nasution, A.Y., 2021. Evaluasi Minyak Ikan Patin (*Pangasius Hypophthalmus*) Dengan Penambahan Ekstrak Kunyit Sebagai Antioksidan Alami. *Jurnal Ilmiah Farmasi Farmasyifa*, **4** (2): 22–28.
- Nazir, N., Diana, A., dan Sayuti, K., 2017. Physicochemical and Fatty Acid Profile of Fish Oil from Head of Tuna (*Thunnus albacares*) Extracted from Various Extraction Method. *International Journal on Advanced Science, Engineering and Information Technology*, **7** (2): 709.
- Negari, S.G., Dewi, E.N., dan Rianingsih, L., 2018. Change of Fatty Acids Compositions (Omega 3, 6, 9) from Milkfish (*Chanos chanos* Forsk) Bekasam that Fermented with Different Carbohydrates Sources. *journal of fisheries and marine research*, **14** (3): 46–52.
- Nimse, S.B. dan Pal, D., 2015. Free radicals, natural antioxidants, and their reaction mechanisms. *RSC Advances*, **5** (35): 27986–28006.
- Noor, M.L., Diharmi, A., dan Karnila, R., 2021a. Karakteristik dan Profil Asam Lemak Kombinasi Minyak Ikan Patin dan Minyak Hati Ikan Hiu: Characteristics and Fatty Acid Profile of Catfish and Shark Liver Oil Mixture. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **24** (1): 122–130.
- Noor, M.L., Diharmi, A., dan Karnila, R., 2021b. Karakteristik dan Profil Asam Lemak Kombinasi Minyak Ikan Patin dan Minyak Hati Ikan Hiu: Characteristics and Fatty Acid Profile of Catfish and Shark Liver Oil Mixture. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **24** (1): 122–130.
- Nur Ikhsan, A., Rohman, A., Rosiana Putri, A., Syifa, F., Mustafidah, M., dan Martien, R., 2021. Application of FTIR Spectroscopy and Chemometrics for the Prediction of Radical Scavenging Activities of Fish oils. *Indonesian Journal of Pharmacy*, **32** (2): 166–174.

- Nurbayasari, R., Bandol Utomo, B.S., Basmal, J., dan Hastarini, E., 2017. Pemurnian Minyak Ikan Patin Dari Hasil Samping Pengasapan Ikan. *Jurnal Pascapanen dan Bioteknologi Kelautan dan Perikanan*, **11** (2): 171.
- O'Brien, R.D., 2003. *Fats and Oils: Formulating and Processing for Applications*, 2nd Edition. ed. CRC Press, New York.
- Oko, S., Mustafa, M., Kurniawan, A., dan Muslimin, N.A., 2020. Pemurnian Minyak Jelantah dengan Metode Adsorpsi Menggunakan Arang Aktif dari Serbuk Gergaji Kayu Ulin (*Eusideroxylon zwageri*). *Jurnal Riset Teknologi Industri*, **14** (2): 124.
- Ozogul, Y., Ozogul, F., dan Alagoz, S., 2007. Fatty acid profiles and fat contents of commercially important seawater and freshwater fish species of Turkey: A comparative study. *Food Chemistry*, **103**: 217–223.
- Paloi, S. dan Acharya, K., 2014. Evaluation Of Antioxidative Activity and Chemical Composition of Ethanolic Extract from *Amanita Vaginata* (Bull.) Lam.: An In Vitro Study. *Asian Journal of Pharmaceutical and Clinical Research*, **7** (2): 88-92.
- Pandiangan, M., Kaban, J., Wirjosentono, B., dan Silalahi, J., 2019. Analisis Kandungan Asam Lemak Omega 3 dan Omega 6 pada Minyak Ikan Mas (*Cyprinus Carpio*). *Talanta Conference Series: Science and Technology (ST)*, **2** (1): 37–44.
- Polak-Juszczak, L. dan Komar-Szymczak, K., 2009. Fatty acid profiles and fat contents of commercially important fish from Vistula Lagoon. *Polish Journal of Food and Nutrition Sciences*, **59** (3): 225-229.
- Polii, F.F., 2016. Pemurnian Minyak Kelapa Dari Kopra Asap Dengan Menggunakan Adsorpsi Arang Aktif Dan Bentonit. *Jurnal Riset Industri*, **10** (3): 115–124.
- Pontoh, J. dan Buyung, N.T.N., 2011. Analisa Asam Lemak Dalam Minyak Kelapa Murni (Vco) Dengan Dua Peralatan Kromatografi Gas. *Jurnal Ilmiah Sains*, **15** (1): 274.
- Pranowo, D. dan Muchalal, M., 2010. Analysis Of Free Fatty Acid On Soybean Oil Using Gas Chromatography – Mass Spectroscopy. *Indonesian Journal of Chemistry*, **4** (1): 62–67.
- Prastyo, D.T., Trilaksani, W., dan Nurjanah, 2020. Aktivitas Antioksidan Hidrolisat Kolagen Kulit Ikan Nila (*Oreochromis niloticus*): Antioxidant activity of Tilapia (*Oreochromis niloticus*) Skin Collagen Hydrolyzate. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **23** (3): 423–433.
- Pua, H.A., Nurhaeni, Rahim, E.A., dan Prismawiryan, 2021. Kualitas Minyak Ikan Lele Dumbo (*Clarias gariepinus*) Selama Penyimpanan dengan Penambahan Likopen Kasar dari Buah Tomat: Quality of Dumbo Catfish Oil (*Clarias gariepinus*) During Storage with The Adding of Crude Lycopene from Tomatoes. *Kovalen: Jurnal Riset Kimia*, **7** (2): 154–160.
- Putri, A.R., Rohman, A., Riyanto, S., dan Setyaningsih, W., 2020. Authentication of Patin Fish Oil (*Pangasius micronemus*) using FTIR Spectroscopy Combined with Chemometrics. *Indonesian Journal of Chemometrics and Pharmaceutical Analysis*, **1** (1): 22-27.



- Rahayu, L.H. dan Purnavita, S., 2014. Regenerasi Minyak Jelantah secara Adsorpsi Menggunakan Ampas Pati Aren dan Bentonit pada Berbagai Variasi Rasio Adsorben. *Prosiding Seminar Nasional Hasil-hasil Penelitian dan Pengabdian*, **2** (1): 41–46.
- Richard, D., Kefi, K., Barbe, U., Bausero, P., dan Visioli, F., 2008. Polyunsaturated fatty acids as antioxidants. *Pharmacological Research*, **57** (6): 451–455.
- Rodiah, N.S., Utomo, B.S.B., Basmal, J., dan Hastarini, E., 2016. Pemurnian minyak ikan patin dari hasil sampling pengasapan ikan. *Jurnal Kelautan dan Perikanan*, **11** (2): 171–182.
- Rohman, A., 2016. *Lipid: Sifat Fisika Kimia Dan Analisisnya*, 1st ed. Pustaka Pelajar, Yogyakarta.
- Rohman, A., 2017. The use of infrared spectroscopy in combination with chemometrics for quality control and authentication of edible fats and oils: A review. *Applied Spectroscopy Reviews*, **52** (7): 589–604.
- Rohman, A. dan Che Man, Y.B., 2011. Application of Fourier transform infrared (FT-IR) spectroscopy combined with chemometrics for authentication of cod-liver oil. *Vibrational Spectroscopy*, **55** (11): 141–145.
- Rohman, A. dan Che Man, Y.B., 2012. Quantification and Classification of Corn and Sunflower Oils as Adulterants in Olive Oil Using Chemometrics and FTIR Spectra. *The Scientific World Journal*, **6**: 1–6.
- Rohman, A., Che Man, Y.B., Ismail, A., dan Hashim, P., 2010. Application of FTIR Spectroscopy for the Determination of Virgin Coconut Oil in Binary Mixtures with Olive Oil and Palm Oil. *Journal of the American Oil Chemists' Society*, **87** (6): 601–606.
- Rohman, A., Che Man, Y.B., dan Riyanto, S., 2011. Authentication Analysis of Red Fruit (*Pandanus Conoideus* Lam) Oil Using FTIR Spectroscopy in Combination with Chemometrics: Authentication of red fruit oil using FTIR spectroscopy. *Phytochemical Analysis*, **22** (5): 462–467.
- Rohman, A. dan Man, Y.B.C., 2012a. Pengembangan Metode Deteksi Minyak Kedelai Dalam Campuran Minyak Kelapa Murni Dengan Spektroskopi Infra Merah Dan Kemometrika. *Agritech*, **32** (2): 6.
- Rohman, A. dan Man, Y.B.C., 2012b. Application of Fourier Transform Infrared Spectroscopy for Authentication of Functional Food Oils. *Applied Spectroscopy Reviews*, **47** (1): 1–13.
- Rohman, A., Riyanto, S., Sasi, A.M., dan Yusof, F. Mohd., 2014. The use of FTIR spectroscopy in combination with chemometrics for the authentication of red fruit (*Pandanus conoideus* Lam) oil from sunflower and palm oils. *Food Bioscience*, **7**: 64–70.
- Rohman, A., Riyanto, S., Windarsih, A., Irnawati, Khadijah, dan Rosiana Putri, A., 2019. *Karakterisasi Minyak Dan Lemak*. Pustaka Pelajar, Yogyakarta.
- Rozi, A., Suseno, S.H., dan Jacoeb, A.M., 2016. Extraction and characterization of liver oil from silky shark. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **19** (2): 100.
- Saanin, H., 1984. *Taksonomi Dan Kunci Identifikasi Ikan*. Binacipta, Bandung.

- Setyastuti, A.I., 2015. Profil Asam Lemak dan Kolesterol Ikan Bandeng Asap dengan Asap Cair Bonggol Jagung dan Pengaruhnya terhadap Profil Lipid Tikus Wistar. *Jurnal Aplikasi Teknologi Pangan*, **4** (2): 79.
- Sijben, J.W.C. dan Calder, P.C., 2007a. Differential immunomodulation with long-chain *n*-3 PUFA in health and chronic disease. *Proceedings of the Nutrition Society*, **66** (2): 237–259.
- Sijben, J.W.C. dan Calder, P.C., 2007b. Differential immunomodulation with long-chain *n*-3 PUFA in health and chronic disease. *Proceedings of the Nutrition Society*, **66** (2): 237–259.
- Sudjadi dan Rohman, A., 2004. Analisis obat dan makanan, dalam: *Yayasan Farmasi Indonesia*. Pustaka Pelajar, Yogyakarta.
- Sun, L., Goh, H.J., Govindharajulu, P., Khee-Shing Leow, M., dan Henry, C.J., 2019. Differential Effects of Monounsaturated and Polyunsaturated Fats on Satiety and Gut Hormone Responses in Healthy Subjects. *Foods*, **8** (12): 634.
- Suryani, E., Wahono, H.S., dan Novita, W., 2016. Karakteristik fisik kimia minyak kacang tanah (*Arachis hypogaea*) hasil pemucatan (kajian kombinasi adsorben dan waktu proses). *Jurnal Pangan & Agroindustri*, **4** (1): 120–126.
- Suseno, S.H., Nurjanah, N., Jacob, A.M., dan Saraswati, S., 2014. Purification of *Sardinella* sp., Oil: Centrifugation and Bentonite Adsorbent. *Advance Journal of Food Science and Technology*, **6** (1): 60–67.
- Suseno, S.H., Rizkon, A.K., Jacob, A.M., Kamini, dan Listiana, D., 2021a. Fish oil extraction as a by-product of Tilapia (*Oreochromis* sp.) fish processing with dry rendering method. *IOP Conference Series: Earth and Environmental Science*, **679**: 012009.
- Suseno, S.H., Rizkon, A.K., Jacob, A.M., Kamini, dan Listiana, D., 2021b. Fish oil extraction as a by-product of Tilapia (*Oreochromis* sp.) fish processing with dry rendering method. *IOP Conference Series: Earth and Environmental Science*, **679**: 012009.
- Suseno, S.H., Rizkon, A.K., Jacob, A.M., Nurjanah, N., dan Supinah, P., 2020. Ekstraksi dry rendering dan karakterisasi minyak ikan patin (*Pangasius* sp.) hasil samping industri filet di lampung: Extraction with Dry Rendering Method and Characterization of Fish Oil By-Product of Pangasius Fillet Industries in Lampung. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **23** (1): 38–46.
- Swastawati, F., Boesono, H., Susanto, E., dan Setyastuti, A.I., 2016. Changes of Amino Acids and Quality in Smoked Milkfish [*Chanos chanos* (Forsk. 1775)] Processed by Different Redestillation Methods of Corncob Liquid Smoke. *Aquatic Procedia*, **7**: 100–105.
- Tamsil, A., Akram, A.M., Hidayat, T., dan Hasnidar, 2021. Analisis Kimia Ikan Sapu-Sapu (*Pterygoplichthys pardalis* Castelnau 1855) Dari Danau Tempe. *Jurnal Pengolahan Hasil Perikanan Indonesia*, **24**: 11.
- Tiangson-BAYAGA, C.L.P. dan Devesa, G.F., 2005. Milkfish (*Chanos chanos* Forskaal) Consumption in the Philippines and the Docosahexaenoic Acid

- Level of the Cooked Fish. *Food Science and Technology Research*, **11** (1): 127–133.
- Titus, D., James Jebaseelan Samuel, E., dan Roopan, S.M., 2019. Nanoparticle characterization techniques, dalam: *Green Synthesis, Characterization and Applications of Nanoparticles*. Elsevier, hal. 303–319.
- Tokay, F., Günaydin, R., dan Bağdat, S., 2021. A novel vortex assisted dispersive solid phase extraction of some trace elements in essential oils and fish oil. *Talanta*, **230**: 122312.
- USDA, 2019. 'Nutrition Facts for Fish, Raw, Milkfish, Recommended Daily Values and Analysis', [https://www.nutritionvalue.org/Fish%2C\\_raw%2C\\_milkfish\\_nutritional\\_value.html](https://www.nutritionvalue.org/Fish%2C_raw%2C_milkfish_nutritional_value.html). URL: (diakses tanggal 13/7/2020).
- Visani, V., Netto, J.M.S., Honorato, R.S., de Araújo, M.C.U., dan Honorato, F.A., 2017. Screening analysis of garlic-oil capsules by infrared spectroscopy and chemometrics. *Microchemical Journal*, **133**: 480–484.
- Warsi, W., Sardjiman, S., dan Riyanto, S., 2018. Synthesis and Antioxidant Activity of Curcumin Analogues. *Journal of Chemical and Pharmaceutical Research*, **10** (4): 1-9.
- Yang, H., Irudayaraj, J., dan Paradkar, M., 2005. Discriminant analysis of edible oils and fats by FTIR, FT-NIR and FT-Raman spectroscopy. *Food Chemistry*, **93** (1): 25–32.
- Young, I.S. dan Woodside, J.V., 2001. Antioxidants in health and disease. *Journal of Clinical Pathology*, **54**: 176–186.
- Zhong, Y., Madhujith, T., Mahfouz, N., dan Shahidi, F., 2007. Compositional characteristics of muscle and visceral oil from steelhead trout and their oxidative stability. *Food Chemistry*, **104**: 602–608.
- Zzaman, W., Suseno, S.H., Nadiyah, W.A., dan Tajul, A.Y., 2014. Fatty Acid Profile and Antioxidant Capacity of Muscle and by Product Oil from Selected Fresh Water Fish. *Food Science and Technology*, **3**: 41–46.