

## DAFTAR PUSTAKA

- Ainali, N. M., Bikiaris, D. N., & Lambropoulou, D. A. (2021). Aging effects on low- and high-density polyethylene, polypropylene and polystyrene under UV irradiation: An insight into decomposition mechanism by Py-GC/MS for microplastic analysis. *Journal of Analytical and Applied Pyrolysis*, 158(June), 105207. <https://doi.org/10.1016/j.jaap.2021.105207>
- Aprilman, D., Widodo, S., & Kegiatan, L. B. (2022). Rancang Bangun Mesin Penyikat Galon Luar Dan Dalam Semi. *JURNAL TEKNIK MESIN*, 8(1).
- Ben-David, A., Bason, S., Jopp, J., Oren, Y., & Freger, V. (2006). Partitioning of organic solutes between water and polyamide layer of RO and NF membranes: Correlation to rejection. *Journal of Membrane Science*, 281(1–2), 480–490. <https://doi.org/10.1016/j.memsci.2006.04.017>
- Botterell, Z. L. R., Beaumont, N., Dorrington, T., Steinke, M., Thompson, R. C., & Lindeque, P. K. (2019). Bioavailability and effects of microplastics on marine zooplankton: A review. *Environmental Pollution*, 245(2019), 98–110. <https://doi.org/10.1016/j.envpol.2018.10.065>
- BPOM. (n.d.). *Apakah ada persyaratan cemaran untuk air minum isi ulang?* Retrieved January 13, 2022, from <https://standarpangan.pom.go.id/help-center/bantuan/frequently-asked-questions/cemaran/apakah-ada-persyaratan-cemaran-untuk-air-minum-isi-ulang>
- BPS. (2021). *Industri Air Minum Isi Ulang*. <https://www.bps.go.id/klasifikasi/app/view/kbli2020/11052>
- Brandt, J., Fischer, F., Kanaki, E., Enders, K., Labrenz, M., & Fischer, D. (2021). Assessment of Subsampling Strategies in Microspectroscopy of Environmental Microplastic Samples. *Frontiers in Environmental Science*, 8(January), 1–14. <https://doi.org/10.3389/fenvs.2020.579676>
- Campanale, C., Massarelli, C., Savino, I., Locaputo, V., & Uricchio, V. F. (2020). A detailed review study on potential effects of microplastics and additives of concern on human health. *International Journal of Environmental Research and Public Health*, 17(4). <https://doi.org/10.3390/ijerph17041212>
- Dalmau-Soler, J., Ballesteros-Cano, R., Boleda, M. R., Paraira, M., Ferrer, N., & Lacorte, S. (2021). Microplastics from headwaters to tap water: occurrence and removal in a drinking water treatment plant in Barcelona Metropolitan area (Catalonia, NE Spain). *Environmental Science and Pollution Research*, 28(42), 59462–59472. <https://doi.org/10.1007/s11356-021-13220-1>
- Danopoulos, E., Twiddy, M., & Rotchell, J. M. (2020). Microplastic contamination of drinking water: A systematic review. *Plos One*, 15(7 July), 1–23. <https://doi.org/10.1371/journal.pone.0236838>
- Deng, Y., Zhang, Y., Lemos, B., & Ren, H. (2017). Tissue accumulation of microplastics in mice and biomarker responses suggest widespread health risks of exposure. *Scientific Reports*, 7(1), 46687. <https://doi.org/10.1038/srep46687>
- Dris, R., Gasperi, J., Saad, M., Mirande, C., & Tassin, B. (2016). Synthetic fibers in atmospheric fallout: A source of microplastics in the environment? *Marine*

- Pollution Bulletin*, 104(1–2), 290–293.  
<https://doi.org/10.1016/j.marpolbul.2016.01.006>
- Eerkes-Medrano, D., Leslie, H. A., & Quinn, B. (2019). Microplastics in drinking water: A review and assessment. *Current Opinion in Environmental Science and Health*, 7, 69–75. <https://doi.org/10.1016/j.coesh.2018.12.001>
- Elkhatib, D., & Oyanedel-Craver, V. (2020). A Critical Review of Extraction and Identification Methods of Microplastics in Wastewater and Drinking Water. *Environmental Science and Technology*, 54(12), 7037–7049. <https://doi.org/10.1021/acs.est.9b06672>
- Fang, J., Zhang, L., Sutton, D., Wang, X., & Lin, T. (2012). Needleless melt-electrospinning of polypropylene nanofibres. *Journal of Nanomaterials*, 2012. <https://doi.org/10.1155/2012/382639>
- Gabrielle, S. B., Kusnayat, A., & Martini, S. (2019). Pengembangan Alat Bantu Sikat Tengah Mesin Pencuci Galon Menggunakan Metode Reverse Engineering & Redesign Methodology Di CV. Barokah Abadi. *E-Proceeding of Engineering*, 6(2), 6506–6512.
- Giese, A., Kerpen, J., Weber, F., & Prediger, J. (2021). A Preliminary Study of Microplastic Abrasion from the Screw Cap System of Reusable Plastic Bottles by Raman Microspectroscopy. *ACS ES&T Water*, 1(6), 1363–1368. <https://doi.org/10.1021/acsestwater.0c00238>
- Gomiero, A., Øysæd, K. B., Palmas, L., & Skogerbø, G. (2021). Application of GCMS-pyrolysis to estimate the levels of microplastics in a drinking water supply system. *Journal of Hazardous Materials*, 416(March). <https://doi.org/10.1016/j.jhazmat.2021.125708>
- Hollerová, A., Hodkovicová, N., Jana, B., Martin, F., Maršálek, P., & Svobodová, Z. (2021). Microplastics as a potential risk for aquatic environment organisms – a review. *Acta Veterinaria Brno*, 90, 99–107. <https://doi.org/https://doi.org/10.2754/avb202190010099>
- Huang, J. B., Zeng, G. S., Li, X. S., Cheng, X. C., & Tong, H. (2018). Theoretical studies on bond dissociation enthalpies for model compounds of typical plastic polymers. *IOP Conference Series: Earth and Environmental Science*, 167(1). <https://doi.org/10.1088/1755-1315/167/1/012029>
- Kankanige, D., & Babel, S. (2020). Smaller-sized micro-plastics (MPs) contamination in single-use PET-bottled water in Thailand. *Science of the Total Environment*, 717, 137232. <https://doi.org/10.1016/j.scitotenv.2020.137232>
- Kemenkes. (2018). *Berapa takaran normal air agar tidak kekurangan cairan dalam tubuh?* <http://p2ptm.kemkes.go.id/preview/infografhic/berapa-takaran-normal-air-agar-tidak-kekurangan-cairan-dalam-tubuh#:~:text=Pada orang dewasa%2C konsumsi air,pada tubuh yaitu sekitar 20%25.>
- Kirstein, I. V., Hensel, F., Gomiero, A., Iordachescu, L., Vianello, A., Wittgren, H. B., & Vollertsen, J. (2021). Drinking plastics? – Quantification and qualification of microplastics in drinking water distribution systems by  $\mu$ FTIR and Py-GCMS. *Water Research*, 188, 116519. <https://doi.org/10.1016/j.watres.2020.116519>

- Koelmans, A. A., Mohamed Nor, N. H., Hermsen, E., Kooi, M., Mintenig, S. M., & De France, J. (2019). Microplastics in freshwaters and drinking water: Critical review and assessment of data quality. *Water Research*, *155*, 410–422. <https://doi.org/10.1016/j.watres.2019.02.054>
- Leslie, H. A., van Velzen, M. J. M., Brandsma, S. H., Vethaak, A. D., Garcia-Vallejo, J. J., & Lamoree, M. H. (2022). Discovery and quantification of plastic particle pollution in human blood. *Environment International*, *163*(December 2021), 107199. <https://doi.org/10.1016/j.envint.2022.107199>
- Lobo, H., & Bonilla, J. W. (2003). *Handbook of Plastic Analysis*. Marcel Dekker, Inc.
- Lozano, Y. M., Lehnert, T., Linck, L. T., Lehmann, A., & Rillig, M. C. (2021). Microplastic Shape, Polymer Type, and Concentration Affect Soil Properties and Plant Biomass. *Frontiers in Plant Science*, *12*(February), 1–14. <https://doi.org/10.3389/fpls.2021.616645>
- Lu, L., Wan, Z., Luo, T., Fu, Z., & Jin, Y. (2018). Polystyrene microplastics induce gut microbiota dysbiosis and hepatic lipid metabolism disorder in mice. *Science of The Total Environment*, *631–632*, 449–458. <https://doi.org/10.1016/j.scitotenv.2018.03.051>
- Luo, H., Liu, C., He, D., Xu, J., Sun, J., Li, J., & Pan, X. (2022). Environmental behaviors of microplastics in aquatic systems: A systematic review on degradation, adsorption, toxicity and biofilm under aging conditions. *Journal of Hazardous Materials*, *423*(PA), 126915. <https://doi.org/10.1016/j.jhazmat.2021.126915>
- Makhdoumi, P., Amin, A. A., Karimi, H., Pirsaeheb, M., Kim, H., & Hossini, H. (2021). Occurrence of microplastic particles in the most popular Iranian bottled mineral water brands and an assessment of human exposure. *Journal of Water Process Engineering*, *39*(September), 101708. <https://doi.org/10.1016/j.jwpe.2020.101708>
- Malkin, V. P. (2001). Hyperfiltration Purification Of Waste Water. *Chemical and Petroleum Engineering*, *37*(11), 158–168. <https://doi.org/10.4324/9781315813110-26>
- Mason, S. A., Welch, V. G., & Neratko, J. (2018). Synthetic Polymer Contamination in Bottled Water. *Frontiers in Chemistry*, *6*(September). <https://doi.org/10.3389/fchem.2018.00407>
- Mintenig, S. M., Löder, M. G. J., Primpke, S., & Gerds, G. (2019). Low numbers of microplastics detected in drinking water from ground water sources. *Science of the Total Environment*, *648*, 631–635. <https://doi.org/10.1016/j.scitotenv.2018.08.178>
- Mortula, M. M., Atabay, S., Fattah, K. P., & Madbuly, A. (2021). Leachability of microplastic from different plastic materials. *Journal of Environmental Management*, *294*, 0–29. <https://doi.org/10.1016/j.jenvman.2021.112995>
- Na, S. H., Kim, M. J., Kim, J. T., Jeong, S., Lee, S., Chung, J., & Kim, E. J. (2021). Microplastic removal in conventional drinking water treatment processes: Performance, mechanism, and potential risk. *Water Research*, *202*, 117417. <https://doi.org/10.1016/j.watres.2021.117417>

- Novotna, K., Cermakova, L., Pivokonska, L., Cajthaml, T., & Pivokonsky, M. (2019). Microplastics in drinking water treatment – Current knowledge and research needs. *Science of the Total Environment*, *667*, 730–740. <https://doi.org/10.1016/j.scitotenv.2019.02.431>
- Oßmann, B. E. (2021). Microplastics in drinking water? Present state of knowledge and open questions. *Current Opinion in Food Science*, *41*, 44–51. <https://doi.org/10.1016/j.cofs.2021.02.011>
- Oßmann, B. E., Sarau, G., Holtmannspötter, H., Pischetsrieder, M., Christiansen, S. H., & Dicke, W. (2018). Small-sized microplastics and pigmented particles in bottled mineral water. *Water Research*, *141*, 307–316. <https://doi.org/10.1016/j.watres.2018.05.027>
- Ouellette, R. J., & Rawn, J. D. (2014). *Organic Chemistry: Structure, Mechanism, and Synthesis*. Elsevier.
- Panno, S. V., Kelly, W. R., Scott, J., Zheng, W., McNeish, R. E., Holm, N., Hoellein, T. J., & Baranski, E. L. (2019). Microplastic Contamination in Karst Groundwater Systems. *Groundwater*, *57*(2), 189–196. <https://doi.org/10.1111/gwat.12862>
- Pivokonsky, M., Cermakova, L., Novotna, K., Peer, P., Cajthaml, T., & Janda, V. (2018). Occurrence of microplastics in raw and treated drinking water. *Science of the Total Environment*, *643*, 1644–1651. <https://doi.org/10.1016/j.scitotenv.2018.08.102>
- Pivokonský, M., Pivokonská, L., Novotná, K., Čermáková, L., & Klimtová, M. (2020). Occurrence and fate of microplastics at two different drinking water treatment plants within a river catchment. *Science of the Total Environment*, *741*, 140236. <https://doi.org/10.1016/j.scitotenv.2020.140236>
- PT Amidis Tirta Mulya. (2019). *Teknologi Produksi Amidis*. PT Amidis Tirta Mulya.
- Sarmah, R., Dutta, R., Baishya, S., & Borah, S. (2018). Microplastic pollution: An emerging environmental issue. *Journal of Entomology and Zoology Studies*, *6*(6), 340–344. [https://www.researchgate.net/publication/328955573\\_Microplastic\\_pollution\\_An\\_emerging\\_environmental\\_issue](https://www.researchgate.net/publication/328955573_Microplastic_pollution_An_emerging_environmental_issue)
- Schwabl, P., Koppel, S., Konigshofer, P., Bucsics, T., Trauner, M., Reiberger, T., & Liebmann, B. (2019). Detection of various microplastics in human stool: A prospective case series. *Annals of Internal Medicine*, *171*(7), 453–457. <https://doi.org/10.7326/M19-0618>
- Schymanski, D., Goldbeck, C., Humpf, H.-U., & Fürst, P. (2018). Analysis of microplastics in water by micro-Raman spectroscopy: Release of plastic particles from different packaging into mineral water. *Water Research*, *129*, 154–162. <https://doi.org/10.1016/j.watres.2017.11.011>
- Selvam, S., Jesuraja, K., Venkatramanan, S., Roy, P. D., & Jeyanthi Kumari, V. (2021). Hazardous microplastic characteristics and its role as a vector of heavy metal in groundwater and surface water of coastal south India. *Journal of Hazardous Materials*, *402*, 123786. <https://doi.org/10.1016/j.jhazmat.2020.123786>



- SNI 01-3553-2006. (2006). Air Minum Dalam Kemasan. *Badan Standarisasi Nasional*, 1–9.
- Song, Y. K., Hong, S. H., Jang, M., Han, G. M., Jung, S. W., & Shim, W. J. (2017). Combined Effects of UV Exposure Duration and Mechanical Abrasion on Microplastic Fragmentation by Polymer Type. *Environmental Science and Technology*, *51*(8), 4368–4376. <https://doi.org/10.1021/acs.est.6b06155>
- Susan, S. E., & John, C. D. (2016). *Plastics Packaging: Properties, Processing, Applications, and Regulations*. Hanser publication. [www.hanser-fachbuch.de](http://www.hanser-fachbuch.de)
- Tanobel. (2022). *Cleo Pure Water, Lebih Murni dengan Penyaringan Membran Hiperfiltrasi*. <https://cleopurewater.com/>
- U.S. EPA. (2019). *Guideline for Human Exposure Assessment*. U.S. EPA.
- Vethaak, A. D., & Legler, J. (2021). Microplastics and human health. *Science*, *371*(6530). <https://doi.org/10.1126/science.abe5041>
- Weisser, J., Beer, I., Hufnagl, B., Hofmann, T., Lohninger, H., Ivleva, N. P., & Glas, K. (2021). From the well to the bottle: Identifying sources of microplastics in mineral water. *Water (Switzerland)*, *13*(6). <https://doi.org/10.3390/w13060841>
- WHO. (2019). *Microplastic in Drinking Water*. World Health Organization.
- Winkler, A., Santo, N., Ortenzi, M. A., Bolzoni, E., Bacchetta, R., & Tremolada, P. (2019). Does mechanical stress cause microplastic release from plastic water bottles? *Water Research*, *166*, 115082. <https://doi.org/10.1016/j.watres.2019.115082>
- Wright, S. L., & Kelly, F. J. (2017). Plastic and Human Health: A Micro Issue? *Environmental Science and Technology*, *51*(12), 6634–6647. <https://doi.org/10.1021/acs.est.7b00423>
- Zhou, X., Wang, J., Li, H., Zhang, H., Hua-Jiang, & Zhang, D. L. (2021). Microplastic pollution of bottled water in China. *Journal of Water Process Engineering*, *40*(November 2020), 101884. <https://doi.org/10.1016/j.jwpe.2020.101884>