

DAFTAR PUSTAKA

- Akhbarizadeh, R. *et al.* (2017) „Microplastics and potentially toxic elements in coastal sediments of Iran's main oil terminal (Khark Island)”, *Environmental Pollution*. Elsevier Ltd, 220, pp. 720–731. Available at: <http://dx.doi.org/10.1016/j.envpol.2016.10.038>.
- Andrady, A. L. (2011) „Microplastics in the marine environment”, *Marine Pollution Bulletin*. Elsevier Ltd, 62(8), pp. 1596–1605. Available at: <http://dx.doi.org/10.1016/j.marpolbul.2011.05.030>.
- Arkatkar, A. *et al.* (2009) „Degradation of unpretreated and thermally pretreated polypropylene by soil consortia”, *International Biodeterioration and Biodegradation*. Elsevier Ltd, 63(1), pp. 106–111. doi: 10.1016/j.ibiod.2008.06.005.
- Arkatkar, A. *et al.* (2010) „Growth of Pseudomonas and Bacillus biofilms on pretreated polypropylene surface”, *International Biodeterioration and Biodegradation*. Elsevier Ltd, 64(6), pp. 530–536. doi: 10.1016/j.ibiod.2010.06.002.
- Aschuri, I. (2016) „The Use of Waste Plastic as a Partial Substitution Aggregate in Asphalt Concrete Pavement”, *Jurnal Teknik Sipil*, 23(1), pp. 1–6.
- Asensio, R. *et al.* (2009) „Analytical characterization of polymers used in conservation and restoration by ATR-FTIR spectroscopy”, *Analytical and bioanalytical chemistry*, 395, pp. 2081–2096. doi: 10.1007/s00216-009-3201-2.
- Atmarita, A. *et al.* (2017) „Asupan Gula, Garam, dan Lemak di Indonesia: Analisis Survei Konsumsi Makanan Individu (SKMI) 2014”, *Gizi Indonesia*, 39(1), p. 1. doi: 10.36457/gizindo.v39i1.201.
- Badan Pusat Statistik (no date) *Impor Garam Menurut Negara Asal Utama*. Available at: <https://www.bps.go.id/statictable/2019/02/14/2013/impor-garam-menurut-negara-asal-utama-2010-2019.html>.
- Blair, R. M. *et al.* (2017) „Micro- and Nanoplastic Pollution of Freshwater and Wastewater Treatment Systems”, *Springer Science Reviews*. Springer International Publishing, 5(1–2), pp. 19–30.
- Brennecke, D. *et al.* (2016) „Microplastics as vector for heavy metal contamination from the marine environment”, *Estuarine, Coastal and Shelf Science*, 178, pp. 189–

195. doi: 10.1016/j.ecss.2015.12.003.
- Chandra, P., Enespa and Singh, D. P. (2020) *Microplastic degradation by bacteria in aquatic ecosystem, Microorganisms for Sustainable Environment and Health*. INC. doi: 10.1016/b978-0-12-819001-2.00022-x.
- DasSarma, Shiladitya., DasSarma, P. (2017) „Halophiles”, *eLS. John Wiley&Sons*, pp. 1–13.
- Driedger, A. G. J. *et al.* (2015) „Plastic debris in the Laurentian Great Lakes: A review”, *Journal of Great Lakes Research*. International Association for Great Lakes Research., 41(1), pp. 9–19. doi: 10.1016/j.jglr.2014.12.020.
- Erlambang, B. P. D., Oktarianti, R. and Wathon, S. (2019) „Mikroorganisme Potensial Sebagai Agen Hayati Pendegradasi Limbah Sampah Plastik”, *Bio Trends*, 10(2), pp. 18–26.
- Fang, J., Xuan, Y. and Li, Q. (2010) „Preparation of polystyrene spheres in different particle sizes and assembly of the PS colloidal crystals”, *Science China Technological Sciences*, 53(11), pp. 3088–3093.
- Gewert, B., Plassmann, M. M. and Macleod, M. (2015) „Pathways for degradation of plastic polymers floating in the marine environment”, *Environmental Sciences: Processes and Impacts*. Royal Society of Chemistry, 17(9), pp. 1513–1521. doi: 10.1039/c5em00207a.
- Ghosh, S. K., Pal, S. and Ray, S. (2013) „Study of microbes having potentiality for biodegradation of plastics.”, *Environmental science and pollution research international*, 20(7), pp. 4339–4355.
- Hadiyanto, H. *et al.* (2021) „Interaction between Styrofoam and Microalgae *Spirulina platensis* in Brackish Water System”.
- Hammer, J., Kraak, M. H. S. and Parsons, J. R. (2012) *Plastics in the Marine Environment: The Dark Side of a Modern Gift, Reviews of Environmental Contamination and Toxicology*.
- Hananingtyas, I. (2017) „Studi Pencemaran Kandungan Logam Berat Timbal (Pb) dan Kadmium (Cd) pada Ikan Tongkol (*Euthynnus* sp.) di Pantai Utara Jawa”, *BIOTROPIC The Journal of Tropical Biology*, 1(2), pp. 41–50. doi: 10.29080/biotropic.2017.1.2.41-50.
- Harapah, N. H. *et al.* (2020) „Analisa Jenis, Bentuk Dan Kelimpahan Mikroplastik Di Sungai Sei Sikaming Medan”, *Jurnal Sains dan Teknologi: Jurnal Keilmuan dan Aplikasi Teknologi Industri*, 20(2), p. 108.

- Hidalgo-Ruz, V. *et al.* (2012) „Microplastics in the marine environment: A review of the methods used for identification and quantification”, *Environmental Science and Technology*, 46(6), pp. 3060–3075. doi: 10.1021/es2031505.
- Isobe, A. *et al.* (2019) „Abundance of non-conservative microplastics in the upper ocean from 1957 to 2066”, *Nature Communications*. Springer US, 10(1), pp. 1–3. doi: 10.1038/s41467-019-08316-9.
- Jambeck, Jenna., Geyer, Roland., Wileox, C. (2015) *Plastic Waste Inputs From Land Into The Ocean*, *Science*. doi: 10.1017/CBO9781107415386.010.
- JingHou, Xue-MengYin, Y.-Y.-L. (2021) „Biochemical characterization of a low salt-adapted extracellular protease from the extremely halophilic archaeon *Halococcus salifodinae*”. *International Journal of Biological Macromolecules*, pp. 253–259. doi: <https://doi.org/10.1016/j.ijbiomac.2021.02.081>.
- Jung, M. R. *et al.* (2018) „Validation of ATR FT-IR to identify polymers of plastic marine debris, including those ingested by marine organisms”, *Marine Pollution Bulletin*. Elsevier, 127(November 2017), pp. 704–716. doi: 10.1016/j.marpolbul.2017.12.061.
- Khoironi, A., Anggoro, S., S. (2019) „Evaluation of the Interaction Among Microalgae *Spirulina* sp, Plastics Polyethylene Terephthalate and Polypropylene in Freshwater Environment Adian”, *Journal of Ecological Engineering*, 20(6), pp. 153–160. doi: 10.12911/22998993/108637.
- Khoironi, A. (2019) *Fenomena Degradasi Sampah Plastik Polietilen Tereftalat dan Polipropilen Di Dalam Sistem Perairan*. Diponegoro University.
- Kim, J. S. *et al.* (2018) „Global Pattern of Microplastics (MPs) in Commercial Food-Grade Salts: Sea Salt as an Indicator of Seawater MP Pollution”, *Environmental Science and Technology*, 52(21), pp. 12819–12828.
- Koelmans, A. A. *et al.* (2016) „Microplastic as a Vector for Chemicals in the Aquatic Environment: Critical Review and Model-Supported Reinterpretation of Empirical Studies”, *Environmental Science and Technology*, 50(7), pp. 3315–3326. doi: 10.1021/acs.est.5b06069.
- Kosuth, M., Mason, S. A. and Wattenberg, E. V. (2018) „Anthropogenic contamination of tap water, beer, and sea salt”, *PLoS ONE*, 13(4), pp. 1–18. doi: 10.1371/journal.pone.0194970.
- Lee, H. *et al.* (2019) „Microplastic contamination of table salts from Taiwan, including a global review”, *Scientific Reports*. Springer US, 9(1), pp. 1–9.

- Li, S. *et al.* (2020) „Influence of polystyrene microplastics on the growth, photosynthetic efficiency and aggregation of freshwater microalgae *Chlamydomonas reinhardtii*”, *Science of the Total Environment*. Elsevier B.V., 714, p. 136767. doi: 10.1016/j.scitotenv.2020.136767.
- Lusher, A., Hollman, P. and Mandoza-Hill, J. . J. (2017) *Microplastics in fisheries and aquaculture*, *FAO Fisheries and Aquaculture Technical Paper*. doi: dmd.105.006999 [pii]\r10.1124/dmd.105.006999.
- Ma, Y. *et al.* (2016) „Effects of nanoplastics and microplastics on toxicity, bioaccumulation, and environmental fate of phenanthrene in fresh water”, *Environmental Pollution*. Elsevier Ltd, 219, pp. 166–173. Available at: <http://dx.doi.org/10.1016/j.envpol.2016.10.061>.
- Marihati, Nani Harihastuti, Muryati, Nilawati, Syarifudin Eddy, dan D. W. H. (2014) „Penggunaan Bakteri Halofilik Sebagai Biokatalisator Untuk Meningkatkan Kualitas dan Produktifitas Garam NaCl di Meja Kristalisasi”, *Jurnal Riset Industri*, 8(3), pp. 191–196. Available at: issn: 1978-5852).
- Mohamed, M. A. *et al.* (2017) *Fourier Transform Infrared (FTIR) Spectroscopy, Membrane Characterization*. Elsevier B.V. doi: 10.1016/B978-0-444-63776-5.00001-2.
- Mohamed Nor, N. H. and Obbard, J. P. (2014) „Microplastics in Singapore’s coastal mangrove ecosystems”, *Marine Pollution Bulletin*, 79(1–2), pp. 278–283. doi: 10.1016/j.marpolbul.2013.11.025.
- Nakkabi, A. *et al.* (2015) „Biodegradation of Poly (ester urethane)s by *Bacillus subtilis*”, *Int. J. Environ. Res.*, 9, pp. 157–162.
- Nilawati, Malik, R., Al., Rame, and Andriani, Y. . (2019) „Application of Iodized In Farm and Haloferax Bacteria Technology for Salt Production in Order to Make Zero Waste Salt Consumption Industry”, 3(201 9), pp. 8–11. doi: <https://doi.org/10.1051/e3sconf/201912507003>.
- Nilawati (2014) *Pengendalian Titik Kritis Proses Produksi Garam Rakyat Dari On-Farm Sampai Off-Farm Untuk Peningkatan Mutu Garam*.
- Nilawati, Marihati and Malik, R. A. (2017) „Kemampuan Isolat Bakteri Haloferax spp dalam meningkatkan Kemurnian Garam NaCl pada Proses Kristalisasi”, *Jurnal Riset Teknologi Pencegahan Pencemaran Industri*, Vol. 8 No., pp. 92–103. doi: DOI: <http://dx.doi.org/10.21771/jrtpi.2017.v8.no2.p%25p>.

- Nursyafaat, A Sartimbul, D. K. S. (2018) „Microplastic in salt production areas of northern coast of east java prosiding“, in *The International Conference On Green Agro-Industry And Bioeconomy*. Malang: Fakultas Teknologi Pertanian Universitas Brawijaya Jalan, p. 231.
- Nursyafaat, L. V. (2018) *Kandungan Mikroplastik Pada Air Dan Partikel Garam Pada Beberapa Area Produksi Garam Di Pesisir Utara Jawa Timur*. Universitas Brawijaya.
- Oren, A. (2003) *Halophilic Microorganisms and their Environments*. United States of America: Kluwer Academic Publishers.
- Organization, W. H. (2012) „Guideline: Sodium intake for adults and children“, in *World Health Organization*, pp. 1–56.
- Othman, A. R. *et al.* (2021) „Microbial degradation of microplastics by enzymatic processes: a review“, *Environmental Chemistry Letters*. Springer International Publishing, (0123456789). doi: 10.1007/s10311-021-01197-9.
- Peixoto, D. *et al.* (2019) „Microplastic pollution in commercial salt for human consumption: A review“, *Estuarine, Coastal and Shelf Science*. Elsevier, 219(January 2018), pp. 161–168.
- Peraturan Bupati Demak tentang Pengelolaan Sampah Plastik (2019) Peraturan Bupati Demak.*
- Plastics Europe, G. M. R. and Conversio Market & Strategy GmbH (2019) „Plastics - the Facts 2019“, pp. 14, 35. Available at: <https://www.plasticseurope.org/en/resources/market-data>.
- Poerio, T., Piacentini, E. and Mazzei, R. (2019) „Membrane processes for microplastic removal“, *Molecules*, 24(22).
- Ramadan, A. H. and Sembiring, E. (2020) „Occurrence of Microplastic in surface water of Jatiluhur Reservoir“, *E3S Web of Conferences*, 148, pp. 1–4. doi: 10.1051/e3sconf/202014807004.
- Richard C. Thompson, Ylva Olsen, Richard P. Mitchell, Anthony Davis, Steven . Rowland, Anthony W. G. John, Daniel McGonigle, A. E. R. (2013) „Lost at Sea: Where Is All the Plastic?“, *Soil Use and Management*, 29(3), pp. 354–364.
- Rodland, E. S. *et al.* (2020) „Road de-icing salt: Assessment of a potential new source and pathway of microplastics particles from roads“, *Science of the Total Environment*. The Authors, 738, p. 139352. doi: 10.1016/j.scitotenv.2020.139352.

- Samsiyah, N., Moelyaningrum, A. D. and Trirahayu Ningrum, P. (2019) „Garam Indonesia Berkualitas: Studi Kandungan Logam Berat Timbal (Pb) Pada Garam

<i>[The Quality of Indonesia Salt: Study of Heavy Metal Lead (Pb) Levels in the Salt]<i>“, *Jurnal Ilmiah Perikanan dan Kelautan*, 11(1), p. 43. doi: 10.20473/jipk.v11i1.11058.
- Selvam, S. *et al.* (2020) „Microplastic presence in commercial marine sea salts: A baseline study along Tuticorin Coastal salt pan stations, Gulf of Mannar, South India“, *Marine Pollution Bulletin*. Elsevier, 150, p. 110675.
- Shah, Z. *et al.* (2013) „Degradation of polyester polyurethane by newly isolated *Pseudomonas aeruginosa* strain MZA-85 and analysis of degradation products by GC-MS“, *International Biodeterioration and Biodegradation*. Elsevier Ltd, 77, pp. 114–122. doi: 10.1016/j.ibiod.2012.11.009.
- Shahul Hamid, F. *et al.* (2018) „Worldwide distribution and abundance of microplastic: How dire is the situation?“, *Waste Management and Research*, 36(10), pp. 873–897. doi: 10.1177/0734242X18785730.
- Shivanand, P. and Mugeraya, G. (2011) „Halophilic bacteria and their compatible solutes -osmoregulation and potential applications“, *Current Science*, 100(10), pp. 1516–1521.
- Su, L. *et al.* (2020) „Temporal and spatial variations of microplastics in roadside dust from rural and urban Victoria, Australia: Implications for diffuse pollution“, *Chemosphere*. Elsevier Ltd, 252, p. 126567. doi: 10.1016/j.chemosphere.2020.126567.
- Tahir, A. *et al.* (2019) „Microplastics in water, sediment and salts from traditional salt producing ponds“, *Global Journal of Environmental Science and Management*, 5(4), pp. 431–440.
- Ventosa, A., Nieto, J. J. and Oren, A. (1998) „Biology of Moderately Halophilic Aerobic Bacteria“, *Microbiology and Molecular Biology Reviews*, 62(2), pp. 504–544. doi: 10.1128/mmbr.62.2.504-544.1998.
- Vianti, R. O. *et al.* (2020) „Purifikasi Dan Uji Degradasi Bakteri Mikroplastik Dari Perairan Muara Sungai Musi , Sumatera Selatan“, *Maspari Journal*, 12(2), pp. 29–36.
- Vijayvargia, Bhadoria., Nema, K. (2014) „Photo and biodegradation performance of polyethylene blended with photodegradable additive ferrocene (Part-I)“, *Int. Journal of Applied Sciences and Engineering Research*, 3, pp. 153 – 170.

- Wang, Fen, Wang, Fei and Zeng, E. Y. (2018) *Sorption of toxic chemicals on microplastics, Microplastic Contamination in Aquatic Environments: An Emerging Matter of Environmental Urgency*. Elsevier Inc. doi: 10.1016/B978-0-12-813747-5.00007-2.
- Wang, J. *et al.* (2016) „The behaviors of microplastics in the marine environment”, *Marine Environmental Research*. Elsevier Ltd, 113, pp. 7–17. Available at: <http://dx.doi.org/10.1016/j.marenvres.2015.10.014>.
- Weinstein, J. E. *et al.* (2020) „Degradation of bio-based and biodegradable plastics in a salt marsh habitat: Another potential source of microplastics in coastal waters”, *Marine Pollution Bulletin*. Elsevier, 160(February), p. 111518. doi: 10.1016/j.marpolbul.2020.111518.
- Widianarko, B. and Hantoro, I. (2018) *Mikroplastik Mikroplastik dalam Seafood Seafood dari Pantai Utara Jawa*. Available at: www.unika.ac.id.
- Wilkes, R. A. and Aristilde, L. (2017) „Degradation and metabolism of synthetic plastics and associated products by *Pseudomonas* sp.: capabilities and challenges”, *Journal of Applied Microbiology*, 123(3), pp. 582–593. doi:10.1111/jam.13472.
- Wright, S. L. and Kelly, F. J. (2017) „Plastic and Human Health: A Micro Issue?”, *Environmental Science and Technology*, 51(12), pp. 6634–6647.
- Yang, D. *et al.* (2015) „Microplastic Pollution in Table Salts from China”, *Environmental Science and Technology*, 49(22), pp. 13622–13627.
- Zhang, K. *et al.* (2021) „Understanding plastic degradation and microplastic formation in the environment: A review”, *Environmental Pollution*, 274. doi: 10.1016/j.envpol.2021.116554.

Sekolah Pascasarjana