

DAFTAR PUSTAKA

- Abdessemed, D., Nezzal, G., dan Ben Aim, R. (2003). Coagulation-adsorption-ultrafiltration for wastewater treatment and reuse. *Water Science and Technology: Water Supply*, 3(5–6), 361–365. <https://doi.org/10.2166/ws.2003.0189>
- Abdillah, N. (2023). The Sustainable Forest Tourism Management Strategies: Case Study in Dumai City. *International Journal of Sustainable Development and Planning*, 18(6), 1649–1658. <https://doi.org/10.18280/ijstdp.180601>
- Abfertiawan, M. S. (2019). Studi Kondisi Eksisting Sistem Pengelolaan Air Limbah Domestik Setempat di Kota Denpasar. *Jurnal Ilmu Lingkungan*, 17(3), 443. <https://doi.org/10.14710/jil.17.3.443-451>
- Adhikari, S., dan Halden, R. U. (2022). Opportunities and Limits of Wastewater-based Epidemiology for Tracking Global Health and Attainment of UN Sustainable Development Goals. *Environment International*, 163, 107217. <https://doi.org/10.1016/j.envint.2022.107217>
- Afandi, Y. V., Sunoko, H. R., dan Kismartini, K. (2014). Status Keberlanjutan Sistem Pengelolaan Air Limbah Domestik Komunal Berbasis Masyarakat di Kota Probolinggo. *Jurnal Ilmu Lingkungan*, 11(2), 100. <https://doi.org/10.14710/jil.11.2.100-109>
- Afifudin, A. F. M., Irawanto, R., dan Purwitasari, N. (2023). Selection of Potential Plants As Phytoremediation for Heavy Metals in Estuarine Ecosystem: a Systematic Review. In *Proceedings of the 4th International Conference on Life Sciences and Biotechnology (ICOLIB 2021)* (pp. 420–434). Atlantis Press International BV. https://doi.org/10.2991/978-94-6463-062-6_42
- Afriyanda, R., Mulki, G. Z., dan Fitriani, M. I. (2018). Analisis Kebutuhan Air Bersih Domestik di Desa Penjajap Kecamatan Pemangkat Kabupaten Sambas. *JeLAST: Jurnal Teknik Kelautan, PWK, Sipil, dan Tambang*, 6(2).
- Agarwal, S., Darbar, S., dan Saha, S. (2022). Chapter 25 - Challenges in Management of Domestic Wastewater for Sustainable Development. In A. L. Srivastav, S. Madhav, A. K. Bhardwaj, dan E. B. T.-C. D. in W. S. R. Valsami-Jones (Eds.), *Urban Water Crisis and Management* (Vol. 6, pp. 531–552). Elsevier. <https://doi.org/10.1016/B978-0-323-91838-1.00019-1>
- Agustarini, S., Kirana, N., Ulfah, A., Setiawan, M. B., Maurits, Y., Mahasurya, C., Permana, A., dan Maulidita, U. (2022). Analisis Anomali Curah Hujan Periode Musim Hujan Saat Terjadi La-nina di NTB. *Buletin Meteorologi, Klimatologi Dan Geofisika*, 2(2), 11–17.

- Ahmed, M., Shayya, W. H., Hoey, D., Mahendran, A., Morris, R., dan Al-Handaly, J. (2000). Use of evaporation ponds for brine disposal in desalination plants. *Desalination*, 130(2), 155–168. [https://doi.org/10.1016/S0011-9164\(00\)00083-7](https://doi.org/10.1016/S0011-9164(00)00083-7)
- Ahmmadi, P., Rahimian, M., dan Movahed, R. G. (2021). Theory of Planned Behavior to Predict Consumer Behavior in Using Products Irrigated With Purified Wastewater in Iran Consumer. *Journal of Cleaner Production*, 296. <https://doi.org/10.1016/j.jclepro.2021.126359>
- Ahn, K. H., dan Song, K. G. (2000). Application of microfiltration with a novel fouling control method for reuse of wastewater from a large-scale resort complex. *Desalination*, 129(3), 207–216. [https://doi.org/10.1016/S0011-9164\(00\)00061-8](https://doi.org/10.1016/S0011-9164(00)00061-8)
- Akpan, V. E., Omole, D. O., dan Bassey, D. E. (2020). Assessing the Public Perceptions of Treated Wastewater Reuse: Opportunities and Implications for Urban Communities in Developing Countries. *Heliyon*, 6(10), e05246. <https://doi.org/10.1016/j.heliyon.2020.e05246>
- Al-Ajalin, F. A. H., Idris, M., Abdullah, S. R. S., Kurniawan, S. B., dan Imron, M. F. (2020). Evaluation of Short-term Pilot Reed Bed Performance for Real Domestic Wastewater Treatment. *Environmental Technology and Innovation*, 20, 101110. <https://doi.org/10.1016/j.eti.2020.101110>
- Alamgir, A., Khan, M. A., Fatima, N., dan Fatima, S. U. (2023). Impact of Domestic and Industrial Effluent on Marine Environment at Karachi Port Trust (KPT) Coastal Area, Pakistan. *Environmental Monitoring and Assessment*, 195(11). <https://doi.org/10.1007/s10661-023-11875-6>
- Ali, M., Rousseau, D. P. L., dan Ahmed, S. (2018). A Full-scale Comparison of Two Hybrid Constructed Wetlands Treating Domestic Wastewater in Pakistan. *Journal of Environmental Management*, 210, 349–358. <https://doi.org/10.1016/j.jenvman.2018.01.040>
- Aliahmad, A., Lima, P. de M., Kjerstadius, H., Simha, P., Vinnerås, B., dan McConville, J. (2025). Consequential Life Cycle Assessment of Urban Source-separating Sanitation Systems Complementing Centralized Wastewater Treatment in Lund, Sweden. *Water Research*, 268. <https://doi.org/10.1016/j.watres.2024.122741>
- Allami, A., Taghavi, M., Tavassoli, Y., dan Zeinadini, S. (2022). Life Cycle Assessment of a Domestic Wastewater Treatment Plant Simulated With Alternative Operational Designs. *Sustainability*, 15(11), 9033.
- Alresheedi, M. T., Haider, H., Albuaymi, A. M., AlSaleem, S. S., Shafiquzzaman, M., Alharbi, A., dan Ahsan, A. (2023). Sustainability of a Low-cost Decentralized Treatment System for Wastewater Reuse: Resident Perception-based Evaluation for Arid Regions. *Water (Switzerland)*, 15(19). <https://doi.org/10.3390/w15193458>

- Amir, N., dan Watumlawar, J. (2022). Tinjauan Yuridis Terkait Izin Pengelolaan Pulau-Pulau Kecil Di Indonesia Pasca Hadirnya Omnibus Law. *Jurnal Masalah Masalah Hukum*, 51(1).
- Amirus, K., Sari, F. E., Dumaika, D., Perdana, A. A., dan Yulyani, V. (2022). Hubungan Indeks Risiko Sanitasi dengan Kejadian Penyakit Berbasis Lingkungan di Kelurahan Pesawahan Kota Bandar Lampung. *Jurnal Kesehatan Lingkungan Indonesia*, 21(3), 366–372. <https://doi.org/10.14710/jkli.21.3.366-372>
- Anismuslim, M., Pramodyo, H., Andarini, S., dan Sudarto. (2023). The effect of sanitation risk on toddler stunting incident with geographically weighted regression approach in Malang Regency, Indonesia. *Journal of Public Health and Development*, 1(1), 90–105. <https://doi.org/10.55131/jphd/2023/210107>
- Anrosana P, I. A., dan Gemaputri, A. A. (2017). Carrying Capacity Standards Environmental of Pasir Putih Coastal Situbondo For Business Development Of Karamba Floating Net. *Jurnal Ilmiah INOVASI*, 17.
- Appelbaum, S. H. (1997). Socio-technical Systems Theory: an Intervention Strategy for Organizational Development. In *Management Decision* (Vol. 35, Issue 6, pp. 452–463). <https://doi.org/10.1108/00251749710173823>
- Apriani, D., Sari, A., dan Muslimah, S. (2014). Kebijakan dan kelembagaan Pengelolaan Pulau-Pulau Kecil Terluar Indonesia Dalam Menghadapi Perubahan Iklim Global. *Yustisia*, 90.
- Ariadi, H. (2023). *Dinamika Wilayah Pesisir*. Universitas Brawijaya Press.
- Ariaoktafiani, P. (2024). Strategi Berkelanjutan untuk Transformasi Permukiman Kumuh di Kawasan Pesisir Tanjungmas Semarang. *Jurnal Ilmiah Membangun Desa Dan Pertanian*, 9(5), 456–467.
- Arini, D dan Mardianta, A.V. (2022). Waste Water Management in Supporting Sustainable Tourism in Girsang Sipangan Bolon District. *International Journal of Architecture and Urbanism*, 6(1), 9–14. <https://doi.org/10.32734/ijau.v6i1.8667>
- Asian Development Bank. (2017). *Urban wastewater management in Indonesia: Key principles and issues in Drafting local regulations*.
- Asif, Z., Chen, Z., Sadiq, R., dan Zhu, Y. (2023). Climate Change Impacts on Water Resources and Sustainable Water Management Strategies in North America. *Water Resources Management*. <https://doi.org/10.1007/s11269-023-03474-4>
- Asmal, I., Syarif, E., Amin, S., dan Walenna, M. A. (2022). The Impact of the Environment and People's Attitudes on Greywater Management in Slum Coastal Settlements. *Civil Engineering Journal (Iran)*, 8(12), 2734–2748. <https://doi.org/10.28991/CEJ-2022-08-12-05>

- Asmare, E., Bekele, K., dan Fentaw, S. (2022). Heliyon Households ' Willingness to Pay for the Rehabilitation of Wetlands : Evidence From Gudera Wetland , Northwest Ethiopia. *Heliyon*, 8(June 2021), e08813. <https://doi.org/10.1016/j.heliyon.2022.e08813>
- Aubert, A. H., Schmid, S., Beutler, P., dan Lienert, J. (2022). Innovative Online Survey About Sustainable Wastewater Management : What Young Swiss Citizens Know and Value. *Environmental Science and Policy*, 137(October 2021), 323–335. <https://doi.org/10.1016/j.envsci.2022.08.018>
- Azevedo, B. D., Scavarda, L. F., Caiado, R. G. G., dan Fuss, M. (2021). Improving Urban Household Solid Waste Management in Developing Countries Based on the German Experience. *Waste Management*, 120, 772–783. <https://doi.org/10.1016/j.wasman.2020.11.001>
- Bagheri, A., dan Hjorth, P. (2007). A Framework for Process Indicators to Monitor for Sustainable Development: Practice to an Urban Water System. *Environment, Development and Sustainability*, 9(2), 143–161. <https://doi.org/10.1007/s10668-005-9009-0>
- Banti, D. C., Tsangas, M., Samaras, P., dan Zorpas, A. (2020). LCA of a Membrane Bioreactor Compared to Activated Sludge System for Municipal Wastewater Treatment. *Membranes*, 10(12), 421.
- Basheer, C., Alnedhary, A. A., Rao, B. S. M., dan Lee, H. K. (2007). Determination of organophosphorous pesticides in wastewater samples using binary-solvent liquid-phase microextraction and solid-phase microextraction: A comparative study. *Analytica Chimica Acta*, 605(2), 147–152. <https://doi.org/10.1016/j.aca.2007.10.006>
- Basheer, C., Alnedhary, A. A., Rao, B. S. M., dan Lee, H. K. (2007). Determination of Organophosphorous Pesticides in Wastewater Samples Using Binary-solvent Liquid-phase Microextraction and Solid-phase Microextraction: a Comparative Study. *Analytica Chimica Acta*, 605(2), 147–152. <https://doi.org/10.1016/j.aca.2007.10.006>
- Batterman, S., Elsenberg, J., Hardin, R., Kruk, M. E., Lemos, M. C., Michalak, A. M., Mukherjee, B., Renne, E., Stein, H., Watkins, C., dan Wilson, M. L. (2009). Sustainable control of water-related infectious diseases: A review and proposal for interdisciplinary health-based systems research. In *Environmental Health Perspectives* (Vol. 117, Issue 7, pp. 1023–1032). <https://doi.org/10.1289/ehp.0800423>
- Bekkari, N. E., Amiri, K., dan Hadjoudj, M. (2022). Performance of pilot scale constructed wetland as ecological practice for domestic wastewater treatment in an arid climate – Algeria. *Water Science and Technology*, 86(4), 787–799. <https://doi.org/10.2166/wst.2022.242>
- Berkes, F., dan Folke, C. (2000). Linking Social and Ecological Systems: Management Practices and Social Mechanisms for Building Resilience. In *Agricultural Economics - AGR ECON* (Vol. 24).

- Bernal, D., Restrepo, I., dan Grueso-Casquete, S. (2021). Key Criteria for Considering Decentralization in Municipal Wastewater Management. *Heliyon*, 7(3).
<https://doi.org/10.1016/j.heliyon.2021.e06375>
- Bilad, M. R. (2017). Membrane Bioreactor for Domestic Wastewater Treatment: Principles, Challenges and Future Research Directions. *Indonesian Journal of Science and Technology*, 2(1), 97–123.
<https://doi.org/10.17509/ijost.v2i1.5993>
- Biswas, A., dan Chakraborty, S. (2023). Organics and Coliform Removal From Low Strength Domestic Wastewater Using Integrated Constructed Wetland – Microbial Fuel Cell Reactor With Bioelectricity Generation. *Journal of Cleaner Production*, 408(July 2022), 137204.
<https://doi.org/10.1016/j.jclepro.2023.137204>
- Boano, F., Caruso, A., Costamagna, E., Ridolfi, L., Fiore, S., Demichelis, F., Galvão, A., Pisoeiro, J., Rizzo, A., dan Masi, F. (2020). A Review of Nature-based Solutions for *Greywater* Treatment: Applications, Hydraulic Desain, and Environmental Benefits. In *Science of the Total Environment* (Vol. 711). Elsevier B.V.
- Bottero, M., Comino, E., dan Riggio, V. (2011). Application of the Analytic Hierarchy Process and the Analytic Network Process for the Assessment of Different Wastewater Treatment Systems. *Environmental Modelling and Software*, 26(10), 1211–1224.
<https://doi.org/10.1016/j.envsoft.2011.04.002>
- Brundtland, G.H., editor. (1987). Report of The World Commission on Environment and Development, The United Nation.
- Buchs, A., Calvo-Mendieta, I., Petit, O., dan Roman, P. (2021). Challenging the Ecological Economics of Water: Social and Political Perspectives. *Ecological Economics*, 190(March), 107176.
<https://doi.org/10.1016/j.ecolecon.2021.107176>
- Buslima, F. A., Abu Hasan, H., Sheikh Abdullah, S. R., dan Othman, A. R. (2024). Water Recovery From Domestic Wastewater Using Integrated Biofilm-phytoremediation Technology: a Review. In *Journal of Water Process Engineering* (Vol. 65). Elsevier Ltd.
<https://doi.org/10.1016/j.jwpe.2024.105875>
- Cabral, J. P. S. (2010). Water Microbiology: Bacterial Pathogens and Water. *International Journal of Environmental Research and Public Health*, 7(10), 3657–3703.
<https://doi.org/10.3390/ijerph7103657>
- Cahyadi, A. (2012). Permasalahan Sumberdaya Air Pulau Karang Sangat Kecil (studi Kasus di Pulau Pramuka, Kabupaten Kepulauan Seribu, DKI Jakarta). Prosiding Seminar Nasional Pengelolaan Sumberdaya Alam Dan Lingkungan, Universitas Diponegoro, 1–8.

- Cangola, J., Abagale, F. K., Cobbina, S. J., dan Osei, R. A. (2025). Prevalence of Antibiotic-resistant Enterobacteriaceae in Domestic Wastewater and Associated Health Risks in Reuse Practices. *International Journal of Hygiene and Environmental Health*, 263. <https://doi.org/10.1016/j.ijheh.2024.114478>
- Carden, K., dan Armitage, N. P. (2013). Assessing Urban Water Sustainability in South Africa - Not Just Performance Measurement. *Water SA*, 39(3), 345–350. <https://doi.org/10.4314/wsa.v39i3.1>
- Carrillo, V., Castillo, R., Magrí, A., Holzapfel, E., dan Vidal, G. (2024). Phosphorus Recovery From Domestic Wastewater: a Review of the Institutional Framework. *Journal of Environmental Management*, 351. <https://doi.org/10.1016/j.jenvman.2023.119812>
- Chang, J. jun, Wu, S. qing, Dai, Y. ran, Liang, W., dan Wu, Z. bin. (2012). Treatment performance of integrated vertical-flow constructed wetland plots for domestic wastewater. *Ecological Engineering*, 44, 152–159. <https://doi.org/10.1016/j.ecoleng.2012.03.019>
- Chen, J., Wang, G., Chen, H., Wang, Q., dan Wang, M. (2023). *Recent advances in constructed wetlands methane reduction : Mechanisms and methods*. February, 1–19. <https://doi.org/10.3389/fmicb.2023.1106332>
- Chen, Z., Wang, D., Sun, M., Hao Ngo, H., Guo, W., Wu, G., Jia, W., Shi, L., Wu, Q., Guo, F., dan Hu, H.-Y. (2018). Sustainability evaluation and implication of a large scale membrane bioreactor plant. *Bioresource Technology*, 269, 246–254. <https://doi.org/https://doi.org/10.1016/j.biortech.2018.08.107>
- Chfadi, T., Gheblawi, M., dan Thaha, R. (2021). Public Acceptance of Wastewater Reuse: New Evidence From Factor and Regression Analyses. *Water (Switzerland)*, 13(10). <https://doi.org/10.3390/w13101391>
- Chitra, S., Sekaran, And, G., dan Chandrakasan, G. (1996). Immobilized mutant strain of pseudomonas pictor um for the degradation of phenol in wastewater. In *J. Gen. Appl. Microbiol* (Vol. 42).
- Chu, L., Zhang, X., Yang, F., dan Li, X. (2006). Treatment of domestic wastewater by using a microaerobic membrane bioreactor. *Desalination*, 189(1-3 SPEC. ISS.), 181–192. <https://doi.org/10.1016/j.desal.2005.07.006>
- Chu, T. (2019). Life-cycle Assessment of Full-scale Membrane Bioreactor and Tertiary Treatment Technologies in Fruit Processing Industry [master's Thesis, University of Guelph]. University of Guelph.
- Cossio, C., Norrman, J., McConville, J., Mercado, A., dan Rauch, S. (2020). Indicators for Sustainability Assessment of Small-scale Wastewater Treatment Plants in Low and Lower-middle Income Countries. *Environmental and Sustainability Indicators*, 6(February 2020), 100028. <https://doi.org/10.1016/j.indic.2020.100028>

- Creswell, J.W., dan Clark, V.L.P. 2018. *Mendesain dan Melaksanakan Mixed Methods Research Edisi 2* (Terjemahan). Yogyakarta : Pustaka Pelajar.
- Cumming, G. S. (2014). *Theoretical Frameworks for the Analysis of Social–Ecological Systems* (pp. 3–24). https://doi.org/10.1007/978-4-431-54910-9_1
- Dalia, D. B. and Saad, P. D. (2017). Social Perspectives on the Effective Management of Wastewater. *Intech*, 11(tourism), 13.
- Darmastuti, L., Rustiadi, E., Fauzi, A., dan Purwanto, Y. J. (2023). Stakeholder Analysis of Sustainable Wastewater Management: a Case Study of Bogor, Indonesia. In *Sustainability* (Switzerland) (Vol. 15, Issue 15). <https://doi.org/10.3390/su151511826>
- Davies-Colley, R. J., Hickey, C. W., dan Quinn, J. M. (1995). Organic matter, nutrients, and optical characteristics of sewage lagoon effluents. *New Zealand Journal of Marine and Freshwater Research*, 29(2), 235–250. <https://doi.org/10.1080/00288330.1995.9516657>
- De Souza Damaceno, M. G., da Silva Cruvinel, K. A., dan Santos, A. S. P. (2022). Semiquantitative Microbiological Risk Assessment for Water Reuse in Agriculture: a Case Study in Brazil. *Water Supply*, 22(9), 7375–7386. <https://doi.org/10.2166/ws.2022.285>
- Del Rosario, F. L. U., Montallana, J. N. T., Huang, T.-Y., Aberilla, J. M. O., dan Tu, Y.-M. (2025). Environmental and Economic Sustainability of Wastewater Reclamation and Reuse in Urban Areas. *Journal of Environmental Chemical Engineering*, 119520. <https://doi.org/10.1016/j.jece.2025.119520>
- Dewi, T. U., Astuti, U. P., Afiuddin, A. E., Linuwih, B. C., dan Mayangsari, N. E. (2022). Pengolahan Total Coliform Menggunakan Kombinasi Metode Wetland dan Sinar UV. *Jurnal Pengendalian Pencemaran Lingkungan (JPPL)*, 4(2), 91–97.
- Di Prinzio, C. Y., Andrade-Muñoz, A. S., Assef, Y. A., Dromaz, W. M., Quinteros, P., dan Miserendino, M. L. (2024). Impact of treated effluent discharges on fish communities: Evaluating the effects of pollution on fish distribution, abundance and environmental integrity. *Science of The Total Environment*, 917, 170237. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2024.170237>
- Direktorat Jenderal Cipta Karya, K. P. (2018). *Pedoman Perencanaan Teknik Terinci Sistem Pengelolaan Air Limbah Domestik Terpusat (SPALD-T)* (cetakan Pe). Kementerian Pekerjaan Umum dan Perumahan Rakyat.
- Doerr, S. M., Effler, S. W., dan Owens, E. M. (1996). Forecasting impacts of a hypolimnetic wastewater discharge on lake water quality. *Lake and Reservoir Management*, 12(1), 207–217. <https://doi.org/10.1080/07438149609354009>

- Donde, O. O. (2017). Wastewater Management Techniques: A Review of Advancement on the Appropriate Wastewater Treatment Principles for Sustainability. *Environmental Management and Sustainable Development*, 6(1), 40. <https://doi.org/10.5296/emsd.v6i1.10137>
- Dotro, G., Langergraber, G., Molle, P., Nivala, J., Puigagut, J., Stein, O., dan von Sperling, M. (2017). *Treatment Wetlands*. London, UK: IWA Publishing. <https://doi.org/10.2166/9781789062267>
- Dove, S. G., Brown, K. T., Van Den Heuvel, A., Chai, A., dan Hoegh-Guldberg, O. (2020). Ocean warming and acidification uncouple calcification from calcifier biomass which accelerates coral reef decline. *Communications Earth and Environment*, 1(1). <https://doi.org/10.1038/s43247-020-00054-x>
- Dubey, M., Vellanki, B. P., dan Kazmi, A. A. (2023). Removal of Emerging Contaminants in Conventional and Advanced Biological Wastewater Treatment Plants in India-a Comparison of Treatment Technologies. *Environmental Research*, 218(November 2022), 115012. <https://doi.org/10.1016/j.envres.2022.115012>
- Durham, B., Bourbigot, M. M., dan Pankratz, T. (2001). Membranes as pretreatment to desalination in wastewater reuse: Operating experience in the municipal and industrial sectors. *Desalination*, 138(1–3), 83–90. [https://doi.org/10.1016/S0011-9164\(01\)00248-X](https://doi.org/10.1016/S0011-9164(01)00248-X)
- Effendi, H. 2003. *Telaah Kualitas Air*. Yogyakarta : PT. Kanisius.
- Effler, S. W., dan Doerr, S. M. (1996). Water quality model evaluations for scenarios of loading reductions and diversion of domestic waste effluent around Onondaga Lake. *Lake and Reservoir Management*, 12(1), 181–193. <https://doi.org/10.1080/07438149609354007>
- Egea-corbacho, A., Martín-garcía, A. P., dan Amelia, A. (2023). Journal of Environmental Chemical Engineering Occurrence , Identification and Removal of Microplastics in a Wastewater Treatment Plant Compared to an Advanced MBR Technology : Full-scale Pilot Plant. 11(March), 1–10. <https://doi.org/10.1016/j.jece.2023.109644>
- Elis Hastuti, I. M. dan S. D. (2014). Kajian Penerapan Teknologi Biofilter Skala Komunal untuk Memenuhi Standar Perencanaan Pengolahan Air Limbah Domestik. *Urnal Standardisasi*, 16(3), 205–214.
- Elliott, M. A., Bakchan, A., Maxcy-Brown, J., D’Amato, V. A., Hallahan, D., White, K. D., Stallman, C., dan Bradley, S. (2023). Sustainable Wastewater Management for Underserved Communities Using Federal Infrastructure Funds: Barriers, Bottlenecks, and Tradeoffs. In *Water Security* (Vol. 20). Elsevier B.V.
- ElMeligy, A., Gaber, R. M., Mostafa, H., Haron, A., dan Ismaeel, W. S. E. (2025). Assessment of constructed wetland projects as a multifunction landscape: a case study in Egypt. *Sustainable Environment Research*, 35(1). <https://doi.org/10.1186/s42834-024-00234-w>

- Eulin, A., Gruarin, C., Lavillei, H., dan Le Cohu, R. (1993). Evaluation de la qualité de l'eau de la Garonne par référence spéciale aux indices diatomique et chironomidien Biological quality assessment of the Garonne river with special reference to chironomid and diatom indices. In *Annls Limnol* (Vol. 29, Issue 4).
- Fama, A. (2016). Komunitas Masyarakat Pesisir di Tambak Lorok, Semarang. *Sabda: Jurnal Kajian Kebudayaan*, 11(2), 65–75.
- Farkas, K., Mannion, F., Sorby, R., Winterbourn, B., Allender, S., Gregory, C. G. M., Holding, P., Thorpe, J. M., Malham, S. K., dan Le Vay, L. (2024). Assessment of Wastewater Derived Pollution Using Viral Monitoring in Two Estuaries. *Marine Pollution Bulletin*, 200. <https://doi.org/10.1016/j.marpolbul.2024.116081>
- Fauzi, A., Anna, S. (2002). Penilaian Depresiasi Sumberdaya Perikanan sebagai Bahan Pertimbangan Penentuan Kebijakan dan kelembagaan Pembangunan Perikanan. *Jurnal Pesisir dan Lautan*. 4 (2): 36-49.
- Fauzi, Akhmad. 2019. Teknik Analisis Keberlanjutan. Jakarta : PT. Gramedia.
- Febrina, V., Razak, A., Handayuni, L., dan Yuniarti, E. (2023). Analisis kondisi sanitasi pemukiman di daerah pesisir (studi kasus: Muaro Lasak, Kota Padang) Condition analysis of residential sanitation in coastal areas (case study: Muaro Lasak, Padang City). *JPLB*, 7(3), 299–308. <https://doi.org/10.36813/jplb.7.3>
- Fernandes, J. P., Guiomar, N., dan Gil, A. (2019). Identifying Key Factors, Actors and Relevant Scales in Landscape and Conservation Planning, Management and Decision Making: Promoting Effective Citizen Involvement. *Journal for Nature Conservation*, 47(November 2018), 12–27. <https://doi.org/10.1016/j.jnc.2018.11.001>
- Fewtrell, L., Kaufmann, R. B., Kay, D., Enanoria, W., Haller, L., dan Colford Jr, J. M. (2005). Water, Sanitation, and Hygiene Interventions to Reduce Diarrhoea in Less Developed Countries: a Systematic Review and Meta-analysis. *The Lancet Infectious Diseases*, 5(1), 42–52.
- Fildzah, A., Suryani, R., Dian, A., Fitriana, G., Nisa, A. C., dan Samudro, G. (2016). Pengolahan Limbah Domestik Kawasan Pesisir dengan Subsurface Constructed Wetland Menggunakan Tanaman *Jatropha Curcas* L. *Jurnal Sains dan Teknologi Lingkungan*, 8(2), 80–88. <https://doi.org/10.20885/jstl.vol8.iss2.art2>
- Finnerty, C. T. K., Karimah, M. M., Conway, K. M., Turkatte, C. K., Eskafi, A., dan Mi, B. (2023). Demand for Off-grid Desalination Technology in Small-island Communities — Can Interfacial Solar Vapor Generation Be the Answer? *Desalination*, 553(february), 116454. <https://doi.org/10.1016/j.desal.2023.116454>

- Firdayati, M., Indiyani, A., Prihandrijanti, M., dan Otterpohl, R. (2015). *Greywater in Indonesia: Characteristic and Treatment Systems*. *Jurnal Teknik Lingkungan*, 21(2), 98–114.
- Fito, J., dan Van Hulle, S. W. H. (2021). Wastewater Reclamation and Reuse Potentials in Agriculture: Towards Environmental Sustainability. *Environment, Development and Sustainability*, 23(3), 2949–2972. <https://doi.org/10.1007/s10668-020-00732-y>
- Forde, M. S., Cashman, A., dan Mitchell, K. (2024). Sustainability of Water Resources in Caribbean Small Island Developing States: an Overview. In *Discover Sustainability* (Vol. 5, Issue 1). Springer Nature.
- Freeman, S., Booth, A. M., Sabbah, I., Tiller, R., Dierking, J., Klun, K., Rotter, A., Ben-David, E., Javidpour, J., dan Angel, D. L. (2020). Between source and sea: The role of wastewater treatment in reducing marine microplastics. In *Journal of Environmental Management* (Vol. 266). Academic Press. <https://doi.org/10.1016/j.jenvman.2020.110642>
- Fuller, M. E., Hedman, P. C., Chu, K. H., Webster, T. S., dan Hatzinger, P. B. (2023). Evaluation of a Sequential Anaerobic-aerobic Membrane Bioreactor System for Treatment of Traditional and Insensitive Munitions Constituents. *Chemosphere*, 340(August), 139887. <https://doi.org/10.1016/j.chemosphere.2023.139887>
- Gabaldón, C., Izquierdo, M., Martínez-Soria, V., Marzal, P., Peña-roja, J. M., dan Javier Alvarez-Hornos, F. (2007). Biological nitrate removal from wastewater of a metal-finishing industry. *Journal of Hazardous Materials*, 148(1–2), 485–490. <https://doi.org/10.1016/j.jhazmat.2007.02.071>
- Gallego-Valero, L., Moral-Parajes, E., dan Román-Sánchez, I. M. (2021). Wastewater Treatment Costs: a Research Overview Through Bibliometric Analysis. *Sustainability (Switzerland)*, 13(9). <https://doi.org/10.3390/su13095066>
- Garcés-Ordóñez, O., Espinosa Díaz, L. F., Pereira Cardoso, R., dan Costa Muniz, M. (2020). The Impact of Tourism on Marine Litter Pollution on Santa Marta Beaches, Colombian Caribbean. *Marine Pollution Bulletin*, 160. <https://doi.org/10.1016/j.marpolbul.2020.111558>
- Garcia, C., López-Jiménez, P. A., Sánchez-Romero, F. J., dan Pérez-Sánchez, M. (2023). Assessing Water Urban Systems to the Compliance of Sdgs Through Sustainability Indicators. Implementation in the valencian community. *Sustainable Cities and Society*, 96. <https://doi.org/10.1016/j.scs.2023.104704>
- García-Herrero, L., Lavrić, S., Guerrieri, V., Toscano, A., Milani, M., Cirelli, G. L., dan Vittuari, M. (2023). Cost–benefit of Green Infrastructures for Water Management: a Sustainability Assessment of Full-scale Constructed Wetlands in Northern and Southern Italy. *Ecological Engineering*, 185, 106797.

- Garfi, M., Flores, L., dan Ferrer, I. (2017). Life Cycle Assessment of Wastewater Treatment Systems for Small Communities: Activated Sludge, Constructed Wetlands and High Rate Algal Ponds. *Journal of Cleaner Production*, 161, 211–219.
- Gaspar, E., Munteanu, I., dan Sintea, S. (2022). Removal of N and P in a Rotating Biological Contactor Plant: Case Study Agnita, Romania. *Water (Switzerland)*, 14(22), 1–13.
- Geary, P. M. (2018). *Environment Desain Guide Domestic Wastewater – Treatment and Re-use*. Environment Desain Guide, November 1998, 1.
- Georgopoulou, E., Kotronarou, A., Koussis, A., Restrepo, P. J., Gómez-Gotor, A., dan Rodriguez Jimenez, J. J. (2001). A methodology to investigate brackish groundwater desalination coupled with aquifer recharge by treated wastewater as an alternative strategy for water supply in Mediterranean areas. *Desalination*, 136(1–3), 307–315. [https://doi.org/10.1016/S0011-9164\(01\)00193-X](https://doi.org/10.1016/S0011-9164(01)00193-X)
- Gerba, C. P. (2015). Environmentally Transmitted Pathogens. In *Environmental microbiology* (pp. 509–550). Academic Press.
- Ghodsvai, M., Dane, G., dan de Vries, B. (2022). The nexus social-ecological system framework (NexSESF): A conceptual and empirical examination of transdisciplinary food-water-energy nexus. *Environmental Science and Policy*, 130, 16–24. <https://doi.org/10.1016/j.envsci.2022.01.010>
- Gholami, M., O’Sullivan, A. D., dan Mackey, H. R. (2023). Nutrient treatment of *greywater* in green wall systems: A critical review of removal mechanisms, performance efficiencies and system design parameters. In *Journal of Environmental Management* (Vol. 345). Academic Press. <https://doi.org/10.1016/j.jenvman.2023.118917>
- Gian, M., Obydenkova, S. V., dan van der Meer, Y. (2025). Key aspects in the social dimension of sustainability for assessment and reporting. *Sustainable Production and Consumption*, 57, 183–197. <https://doi.org/10.1016/j.spc.2025.05.013>
- Ginting, P. 2010. *Sistem Pengelolaan Lingkungan dan Limbah Industri*. Bandung : Yrama Widya.
- Gourbesville, P., dan Thomassin, B. A. (2000). Coastal environment assessment procedure for sustainable wastewater management in tropical islands: The Mayotte example. *Ocean and Coastal Management*, 43(12), 997–1014. [https://doi.org/10.1016/S0964-5691\(00\)00072-7](https://doi.org/10.1016/S0964-5691(00)00072-7)
- Gourbesville, P., dan Thomassin, B. A. (2000). Coastal Environment Assessment Procedure for Sustainable Wastewater Management in Tropical Islands: the Mayotte Example. *Ocean and Coastal Management*, 43(12), 997–1014.

- Grung, M., Lichtenthaler, R., Ahel, M., Tollefsen, K. E., Langford, K., dan Thomas, K. V. (2007). Effects-directed Analysis of Organic Toxicants in Wastewater Effluent From Zagreb, Croatia. *Chemosphere*, 67(1), 108–120.
- Habib, P., Taufik S, A., Wiweko, A., Yudhanto, D., Rizki, M., Fikri, L. H., dan Mulyanto, M. (2023). Survei Demam Secara Massal Berhasil Mengendalikan Wabah Malaria di Pulau Bungin Kabupaten Sumbawa Nusa Tenggara Barat : Pelajaran Tentang Pentingnya Deteksi Agresif di Salah Satu Pulau Terpenting di Dunia. *Jurnal Sains Teknologi dan Lingkungan*, 9(1), 168–174.
- Haldar, K., Kujawa-Roeleveld, K., Schoenmakers, M., Datta, D. K., Rijnaarts, H., dan Vos, J. (2021). Institutional Challenges and Stakeholder Perception Towards Planned Water Reuse in Peri-urban Agriculture of the Bengal Delta. *Journal of Environmental Management*, 283.
- Hamuna, B., Tanjung, R. H., Maury, H. K., Alianto, dan, dan Ilmu Kelautan dan Perikanan, J. (2018). Kajian Kualitas Air Laut dan Indeks Pencemaran Berdasarkan Parameter Fisika-kimia di Perairan Distrik Depapre, Jayapura. *Jurnal Ilmu Lingkungan*, 16(1), 35–43.
- Harussi, Y., Rom, D., Galil, N., dan Semiat, R. (2001). Evaluation of membrane processes to reduce the salinity of reclaimed wastewater. *Desalination*, 137(1–3), 71–89. [https://doi.org/10.1016/S0011-9164\(01\)00206-5](https://doi.org/10.1016/S0011-9164(01)00206-5)
- He, Z., Li, Y., dan Qi, B. (2022). Recent Insights Into Greywater Treatment a Comprehensive Review on Characteristics, Treatment Technologies, and Pollutant Removal Mechanisms Enhanced Reader. *Environmental Science and Pollution Research*, 29, 54025–54044.
- Helgegren, I., Minelli, F., McConville, J., Landaeta, G., dan Rauch, S. (2021). Facilitating factors for community-managed wastewater systems in the Kanata metropolitan region, Bolivia. *Sustainable Cities and Society*, 75. <https://doi.org/10.1016/j.scs.2021.103302>
- Hernaningsih, T. (2014). Aplikasi Membrane Bioreactor (MBR) untuk Proses Daur Ulang Air Limbah. *Jurnal Air Indonesia*, 7(2).
- Hickey, C. W., Quinn, J. M., dan Davies-Colley, R. J. (1989). Effluent characteristics of domestic sewage oxidation ponds and their potential impacts on rivers. *New Zealand Journal of Marine and Freshwater Research*, 23(4), 585–600. <https://doi.org/10.1080/00288330.1989.9516394>
- Holman, N. (2009). Incorporating Local Sustainability Indicators Into Structures of Local Governance: a Review of the Literature. *Local Environment*, 14(4), 365–375.
- Hou, J., Meng, F., Yuan, Q., Sun, Y., Zhang, Y., Puppim de Oliveira, J. A., Zhang, L., Cheng, H., dan Yang, Z. (2025). Potential Role of Rural Constructed Wetlands in Shaping Water-land-energy-carbon Nexus. *Environmental Impact Assessment Review*, 115.

- Huang, R. X., Pagano, A., dan Marengo, A. (2024). Values-based Education for Sustainable Development (vbesd): Introducing a Pedagogical Framework for Education for Sustainable Development (ESD) Using a Values-based Education (vbe) Approach. *Sustainability (Switzerland)* , 16(9).
- Idris, I. H., Narawida, T., Agustin, R. D., Oktaviani, D., dan Hidayat, M. B. (2023). Analisis RAPFISH pada Studi Keberlanjutan Pembangunan Kawasan Wisata Heritage Kajoetangan di Kota Malang. *Brawijaya Journal of Social Science*, 2(02), 115–129.
- Imron, M. F., Firdaus, A. A. F., Flowerainsyah, Z. O., Rosyidah, D., Fitriani, N., Kurniawan, S. B., Abdullah, S. R. S., Hasan, H. A., dan Wibowo, Y. G. (2023). Phytotechnology for domestic wastewater treatment: Performance of Pistia stratiotes in eradicating pollutants and future prospects. *Journal of Water Process Engineering*, 51(August 2022), 103429. <https://doi.org/10.1016/j.jwpe.2022.103429>
- Imron, M. F., Firdaus, A. A. F., Flowerainsyah, Z. O., Rosyidah, D., Fitriani, N., Kurniawan, S. B., Abdullah, S. R. S., Hasan, H. A., dan Wibowo, Y. G. (2023). Phytotechnology for Domestic Wastewater Treatment: Performance of Pistia Stratiotes in Eradicating Pollutants and Future Prospects. *Journal of Water Process Engineering*, 51, 103429.
- Iorhemen, O. T., Hamza, R. A., dan Tay, J. H. (2016). Membrane Bioreactor (MBR) Technology for Wastewater Treatment and Reclamation: Membrane Fouling. *Membranes*, 6(2).
- Irhamiah, M., Bintara Birawida, A., dan Manyullei, S. (2014). Kondisi Sanitasi Dasar pada Masyarakat Pulau Lae-lae Kecamatan Ujung Pandang Kota Makassar. *Core. Ac. Uk*, 1–12.
- Janati, J. N. A., dan Arum Siwiendrayanti. (2017). Hubungan Kondisi Lingkungan Fisik Rumah dan Kebiasaan Orang Tua dengan Kejadian ISPA pada Balita di Wilayah Kerja Puskesmas Traji Kabupaten Temanggung. *Jurnal Kesehatan Pena Medika*, 7(1), 1–13.
- Janus, M., Mozia, S., Bering, S., Tarnowski, K., Mazur, J., dan Morawski, A. W. (2017). Application of MBR Technology for Laundry Wastewater Treatment. *Desalination and Water Treatment*, 64, 213–217.
- Jerves-Cobo, R., Forio, M. A. E., Lock, K., Van Butsel, J., Pauta, G., Cisneros, F., Nopens, I., dan Goethals, P. L. M. (2020). Biological Water Quality in Tropical Rivers During Dry and Rainy Seasons: a Model-based Analysis. *Ecological Indicators*, 108.
- Jiménez-Benítez, A., Ruiz-Martínez, A., Robles, Serralta, J., Ribes, J., Rogalla, F., Seco, A., dan Ferrer, J. (2023). A semi-industrial AnMBR plant for urban wastewater treatment at ambient temperature: Analysis of the filtration process, energy balance and quantification of GHG emissions. *Journal of Environmental Chemical Engineering*, 11(2). <https://doi.org/10.1016/j.jece.2023.109454>

- Kalbar, P. P., Karmakar, S., dan Asolekar, S. R. (2012). Selection of an Appropriate Wastewater Treatment Technology: a Scenario-based Multiple-attribute Decision-making Approach. *Journal of Environmental Management*, 113, 158–169.
- Kanafin, Y. N., Kanafina, D., Malamis, S., Katsou, E., Inglezakis, V. J., Pouloupoulos, S. G., dan Arkhangelsky, E. (2021). Anaerobic Membrane Bioreactors for Municipal Wastewater Treatment: A literature review. In *Membranes* (Vol. 11, Issue 12). MDPI. <https://doi.org/10.3390/membranes11120967>
- Kanchanapiya, P., dan Tantisattayakul, T. (2023). Analysis of wastewater reuse options using a multicriteria decision tool for Phuket, Thailand. *Journal of Environmental Management*, 334(January), 117426. <https://doi.org/10.1016/j.jenvman.2023.117426>
- Kaya, R., Ersahin, M. E., Ozgun, H., Kose-Mutlu, B., Pasaoglu, M. E., dan Koyuncu, I. (2023). Vibratory Membrane Bioreactor Systems in Wastewater Treatment: a Short Review. *Journal of Water Process Engineering*, 53(January), 103865.
- Kementerian Kelautan dan Perikanan Republik Indonesia. (2000). *Keputusan Menteri Kelautan dan Perikanan Republik Indonesia Nomor 41 Tahun 2000 tentang Pedoman Umum Pengelolaan Pulau-pulau Kecil* jo *Keputusan Menteri Kelautan dan Perikanan Republik Indonesia Nomor 67 Tahun 2002 tentang Perubahan atas Keputusan Menteri Kelautan dan Perikanan Nomor 41 Tahun 2000 tentang Pedoman Umum Pengelolaan Pulau-pulau Kecil*. Jakarta: Kementerian Kelautan dan Perikanan Republik Indonesia.
- Kementerian Lingkungan Hidup dan Kehutanan. (2016). *Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 68 Tahun 2016 Tentang Baku Mutu Air Limbah Domestik*. Jakarta: Kementerian Lingkungan Hidup dan Kehutanan Republik Indonesia.
- Kementerian Lingkungan Hidup. (2003). *Keputusan Menteri Negara Lingkungan Hidup Nomor 115 Tahun 2003 Tentang Pedoman Penentuan Status Mutu Air (lampiran II)*. Jakarta: Kementerian Lingkungan Hidup Republik Indonesia.
- Kementerian Lingkungan Hidup. (2004). *Keputusan Menteri Negara Lingkungan Hidup Nomor 51 Tahun 2004 Tentang Baku Mutu Air Laut*. Jakarta: Kementerian Lingkungan Hidup Republik Indonesia.
- Kementerian Lingkungan Hidup. (2014). *Peraturan Menteri Lingkungan Hidup Republik Indonesia Nomor 5 Tahun 2014 Tentang Baku Mutu Air Limbah*. Jakarta: Kementerian Lingkungan Hidup Republik Indonesia.
- Kementerian Pekerjaan Umum dan Perumahan Rakyat. (2017). *Peraturan Menteri Pekerjaan Umum dan Perumahan Rakyat Republik Indonesia Nomor 04/PRT/M/2017 Tentang Penyelenggaraan*

Sistem Pengelolaan Air Limbah Domestik. Jakarta: Kementerian Pekerjaan Umum dan Perumahan Rakyat Republik Indonesia.

Kementerian Pekerjaan Umum. (2010). Buku Referensi Opsi Sistem dan Teknologi Sanitasi Daerah Spesifik. Jakarta: Direktorat Jenderal Cipta Karya, Kementerian Pekerjaan Umum.

Ker R, P. A., Vreugdenhil, H., Jeffrey, P., dan Slinger, J. H. (2013). Readiness and Willingness of the Public to Participate in Integrated Water Management: Some Insights From the Levant. *Water Policy*, 15(SUPPL.2), 101–120.

Khairina, E., Purnomo, E. P., dan Malawnai, A. D. (2020). Sustainable Development Goals: Kebijakan Berwawasan Lingkungan Guna Menjaga Ketahanan Lingkungan Di Kabupaten Bantul Daerah Istimewa Yogyakarta. *Jurnal Ketahanan Nasional*, 26(2), 155. <https://doi.org/10.22146/jkn.52969>

Khajvand, M., Mostafazadeh, A. K., Drogui, P., dan Tyagi, R. D. (2022). Management of *Greywater*: Environmental Impact, Treatment, Resource Recovery, Water Recycling, and Decentralization. *Water Science and Technology*, 86(5), 909–937.

Khan, U. A., Löffler, P., Spilsbury, F., Wiberg, K., Stålsby Lundborg, C., dan Lai, F. Y. (2024). Towards Sustainable Water Reuse: a Critical Review and Meta-analysis of Emerging Chemical Contaminants With Risk-based Evaluation, Health Hazard Prediction and Prioritization for Assessment of Effluent Water Quality. In *Journal of Hazardous Materials* (Vol. 480). Elsevier B.V.

Khotimah, N.S., Anisa Mardhotillah, N., dan Arifaini, N. (2021). Karakterisasi Limbah Cair *Greywater* pada level Rumah Tangga Berdasarkan Sumber Emisi *Greywater* Characterization at Household Scale by Emission Source. *Saintis*, 21(2). [https://doi.org/10.25299/saintis2021.vol21\(02\).7876](https://doi.org/10.25299/saintis2021.vol21(02).7876)

Klundert, A. Integrated Sustainable Waste Management: the selection of appropriate technologies and the desain of sustainable systems is not (only) a technical issue. *Paper prepared for the CEDARE/IETC Inter-Regional Workshop on Technologies for Sustainable Waste Management, held 13-15 July 1999 in Alexandria, Egypt.*

Koul, B., Yadav, D., Singh, S., Kumar, M., dan Song, M. (2022). Insights Into the Domestic Wastewater Treatment (DWWT) Regimes: a Review. In *Water (Switzerland)* (Vol. 14, Issue 21). MDPI.

Kristanti, R. A., Hadibarata, T., dan Syafrudin, M. (2022). Microbiological Contaminants in Drinking Water: Current Status and Challenges. *Water, Air, dan Soil Pollution*, 233, Article 299.

Kuempel, C. D., Thomas, J., Wenger, A. S., Jupiter, S. D., Suárez-Castro, A. F., Nasim, N., Klein, C. J., dan Hoegh-Guldberg, O. (2024). A Spatial Framework for Improved Sanitation to Support Coral Reef Conservation. *Environmental Pollution*, 342.

- Kuslantasi, U., Pambudi, B., dan Sawitri, D. R. (2022). Hubungan Antara Kebijakan Lingkungan Dengan Perilaku Pro-Lingkungan: Sebuah Kajian Literatur Sistematis The Relationship between Environmental Policy and Pro-Environmental Behavior: A Systematic Literature Review. *Jurnal Litbang*, 18(Juni), 31–46.
- Kwon, H., Kang, H.-J., Park, Y., dan Bae, J. (2023). Optimization of a sequencing batch reactor with the application of the Internet of Things. *Water Research*, 229. <https://doi.org/10.1016/j.watres.2022.119511>
- Lambert, L., dan Lee, J. (2018). Nudging Greywater Acceptability in a Muslim Country: Comparisons of Different Greywater Reuse Framings in Qatar. *Environmental Science dan Policy*, 89, 93–99. <https://doi.org/10.1016/j.envsci.2018.07.015>
- Landrigan, P. J., Stegeman, J. J., Fleming, L. E., Allemand, D., Anderson, D. M., Backer, L. C., Brucker-Davis, F., Chevalier, N., Corra, L., Czerucka, D., Bottein, M. Y. D., Demeneix, B., Depledge, M., Deheyn, D. D., Dorman, C. J., Fénichel, P., Fisher, S., Gaill, F., Galgani, F., ... Rampal, P. (2020). Human Health and Ocean Pollution. *Annals of Global Health*, 86(1), 1–64.
- Langergraber, G. (2013). Are Constructed Treatment Wetlands Sustainable Sanitation Solutions? *Water Science and Technology*, 67(10), 2133–2140. <https://doi.org/10.2166/wst.2013.122>
- Lemma, D. B., dan Debebe, W. A. (2023). Wet Coffee Processing Wastewater Treatment by Using an Integrated Constructed Wetland. *Desalination and Water Treatment*, 304, 97–111.
- Lessy, M. R., Lassa, J., dan Zander, K. K. (2025). Development of Small Island Vulnerability Index to Achieve Sustainable Development Goals: Insight From Ternate Volcanic Island, Indonesia. *Environmental Challenges*, 19.
- Li, L., Liu, X., Ding, Y., dan Liu, N. (2022). Urban Residents' Acceptance of Recycled Water: an Improved Innovation-decision Model Considering the Needs Satisfied and Social Characteristics. *Sustainable Production and Consumption*, 33, 1005–1017.
- Li, X., Pu, X., Wang, W., Dong, X., Zhang, Y., Wang, J., Wang, Y., dan Meng, M. (2023). Surface water environmental carrying capacity and surface water quality based on economy-society-environment nexus – Evidence from China. *Water-Energy Nexus*, 6, 231–243. <https://doi.org/10.1016/j.wen.2023.11.003>
- Liao, R., Song, Z., Zhang, J., Xing, D., Yan, S., dan Dong, W. (2023). Pilot-scale Treatment of Municipal Garbage Mechanical Dewatering Wastewater by an Integrated System Involving Partial Nitrification and Denitrification. *Journal of Environmental Management*, 329(December 2022), 117088.

- Lin, L., Yang, H., dan Xu, X. (2022). Effects of Water Pollution on Human Health and Disease Heterogeneity: a Review. In *Frontiers in Environmental Science* (Vol. 10). Frontiers Media S.A.
- Liu, P., Liu, H., Wang, J., dan Chang, G. (2023). Analysis of the Characteristics of Major Pollutants Discharged From Wastewater in China's Provinces. *Environmental Monitoring and Assessment*, 195(9), 1030.
- Liu, T., Guo, J., Hu, S., dan Yuan, Z. (2020). Model-based investigation of membrane biofilm reactors coupling anammox with nitrite/nitrate-dependent anaerobic methane oxidation. *Environment International*, 137(February), 105501. <https://doi.org/10.1016/j.envint.2020.105501>
- Ma, H., Wang, X., Cheng, L., Gong, L., Liu, J., Zhu, S., Ma, S., dan Zhang, J. (2024). Towards Sustainable Rural Wastewater Management: a Case Study of Constructed Wetlands in China. *Environmental Challenges*, 15, 100958.
- Made, A. A. A., dan Wardani, C. (2022). Inovasi Manajemen Air Berkelanjutan pada Pengembangan Kawasan di Indonesia. *Widya Teknik*, 017(01), 35–42.
- Maghfiroh, M., Park, N., Chang, H., Lim, H., dan Kim, W. (2023). Ammonium removal and recovery from greywater using the combination of ion exchange and air stripping: The utilization of NaOH for the regeneration of natural zeolites. *Journal of Water Process Engineering*, 52. <https://doi.org/10.1016/j.jwpe.2023.103581>
- Makisha, N. (2023). Assessment of Wastewater Treatment Plant Upgrading With MBR Implementation. *Membranes*, 13(8).
- Maliga, I., Asdak, C., dan Winata, E. Y. (2021). Analisis Keberlanjutan Pengendalian Pencemaran Air Limbah Domestik Greywater Menggunakan Teknologi Lahan Basah Buatan. *Jurnal Sumber Daya Air*, 17(1), 13–24.
- Maliga, I., Hasifah, H., Antari, G. Y., Rafi'ah, R., dan Lestari, A. (2022). Pengaruh Indeks Risiko Sanitasi Terhadap Kejadian Stunting di Kecamatan Moyo Utara. *Jurnal Kesehatan Lingkungan Indonesia*, 21(1), 50–58.
- Mara, D. (2003). Domestic Wastewater Treatment in Developing Countries. In *Earthscan* (Vol. 6, Issue August). Earthscan.
- Martínez-Gomariz, E., Guerrero-Hidalga, M., Forero-Ortiz, E., dan Gonzalez, S. (2021). Citizens' Perception of Combined Sewer Overflow Spills Into Bathing Coastal Areas. *Water, Air, and Soil Pollution*, 232(9), 1–20.
- Martyr-Koller, R., Thomas, A., Schleussner, C. F., Nauels, A., dan Lissner, T. (2021). Loss and Damage Implications of Sea-level Rise on Small Island Developing States. In *Current Opinion in Environmental Sustainability* (Vol. 50, pp. 245–259). Elsevier B.V.

- Masoud, A. M. N., Alfarra, A., dan Sorlini, S. (2022). Constructed Wetlands as A Solution for Sustainable Sanitation: A Comprehensive Review on Integrating Climate Change Resilience and Circular Economy. *Water*, 14(20), 3232. <https://doi.org/10.3390/w14203232>
- Mateo, O., Jiménez-Benítez, A., Robles, A., Serralta, J., dan Martí, N. (2025). Economic and environmental feasibility assessment of two different AnMBR-based treatment schemes treating sulfate-rich urban wastewater. *Journal of Environmental Chemical Engineering*, 13(2). <https://doi.org/10.1016/j.jece.2025.115891>
- Maucieri, C., Barbera, A. C., Vymazal, J., dan Borin, M. (2017). A review on the main affecting factors of greenhouse gases emission in constructed wetlands. *Agricultural and Forest Meteorology*, 236, 175–193. <https://doi.org/https://doi.org/10.1016/j.agrformet.2017.01.006>
- Maulana, L. H., dan Hendrawan, A. (2018). Kajian Perilaku Masyarakat Pesisir yang Mengakibatkan Kerusakan Lingkungan (studi Kasus di Pantai Kutawaru, Kecamatan Cilacap Tengah Kabupaten Cilacap). *Saintara: Jurnal Ilmiah Ilmu-Ilmu Maritim*, 3(1), 28–38.
- McFarlane, R. A., Horwitz, P., Arabena, K., Capon, A., Jenkins, A., Jupiter, S., Negin, J., Parkes, M. W., dan Saketa, S. (2019). Ecosystem Services for Human Health in Oceania. *Ecosystem Services*, 39.
- Mehmood, Y., Arshad, M., dan Kächele, H. (2022). Effects of wastewater reuse on perceived health risks of farmers in Pakistan: Application of the Zero-Inflated Poisson regression model. *Journal of Cleaner Production*, 369(July). <https://doi.org/10.1016/j.jclepro.2022.133430>
- Meinzing F. and Oldenburg M. (2009). Characteristics of Source-separated Household Wastewater Flows: a Statistical Assessment. *Water Science and Technology*, 59(9), 1785-1791.
- Mela, A., Alexakis, D. E., dan Varelidis, G. (2022). Investigating Public Awareness Towards Wastewater Management in A Small Community. *Global Nest Journal*, 24(2), 254–261. <https://doi.org/10.30955/gnj.004151>
- Melo, L. D. V., da Costa, E. P., Pinto, C. C., Barroso, G. R., dan Oliveira, S. C. (2019). Adequacy Analysis of Drinking Water Treatment Technologies in Regard to the Parameter Turbidity, Considering the Quality of Natural Waters Treated by Large-scale Wtps in Brazil. *Environmental Monitoring and Assessment*, 191(6), 384.
- Mende, J. C. C., Kumurur, V. A., dan Moniaga, I. L. (2015). Kajian Sistem Pengelolaan Air Limbah pada Permukiman di Kawasan Sekitar Danau Tondano (studi Kasus: Kecamatan Remboken Kabupaten Minahasa). *Sabua*, 7(1), 395–406.
- Meng, F., Zhang, S., Oh, Y., Zhou, Z., Shin, H.-S., dan Chae, S.-R. (2017). Fouling in Membrane Bioreactors: an Updated Review. *Water Research*, 114, 151–180.

- Metcalf dan Eddy, Inc. 1979. *Waste Water Engineering : Treatment Disposal Reuse* (Second Edition). United States of America : McGraw-Hill Book Company.
- Minawati, R., Lumanto, L. O., dan Chandra, H. P. (2015). Studi Tentang Peran Pemangku Kepentingan Terhadap Keberhasilan Bangunan Hijau. 1–8.
- Mo, W., dan Zhang, Q. (2013). Energy-nutrients-water Nexus: Integrated Resource Recovery in Municipal Wastewater Treatment Plants. In *Journal of Environmental Management* (Vol. 127, pp. 255–267). Academic Press.
- Molinos-Senante, M., Gómez, T., Caballero, R., Hernández-Sancho, F., dan Sala-Garrido, R. (2015). Assessment of Wastewater Treatment Alternatifs for Small Communities: an Analytic Network Process Approach. *Science of the Total Environment*, 532, 676–687.
- Montes, N., Osman, N., dan Sierra, C. (2022). A Computational Model of Ostrom’s Institutional Analysis and Development Framework. *Artificial Intelligence*, 311, 103756.
- Monzón-Reyes, B. L., González-Moreno, H. R., Month, A. E. Á., Peralta Vega, A. J., Ballut-Dajud, G., dan Sandoval Herazo, L. C. (2025). Wastewater Management Strategies in Rural Communities Using Constructed Wetlands: The Role of Community Participation. *Earth (Switzerland)*, 6(2). <https://doi.org/10.3390/earth6020018>
- Moreira, V. R., Carpanez, T. G., Santos, F. S. dos, Santos, L. S., Fernandes, D. dos S., França-Neta, L. S., Lange, L. C., dan Amaral, M. C. S. (2022). Circular economy in biorefineries: Scale-up of anaerobic/aerobic membrane bioreactors for vinasse recycling. *Journal of Cleaner Production*, 377, 134448. <https://doi.org/https://doi.org/10.1016/j.jclepro.2022.134448>
- Msaki, G. L., Njau, K. N., Treydte, A. C., dan Lyimo, T. (2022). Social Knowledge, Attitudes, and Perceptions on Wastewater Treatment, Technologies, and Reuse in Tanzania. *Water Reuse*, 12(2), 223–241.
- Muga, H. E., dan Mihelcic, J. R. (2008). Sustainability of Wastewater Treatment Technologies. *Journal of Environmental Management*, 88(3), 437–447.
- Muhammad, A. U. (2011). Peran Masyarakat dan Pemerintah Dalam Pengelolaan Air Limbah Domestik di Wilayah Ternate Tengah. *Majalah Geografi Indonesia*, 25(1).
- Muliana, R., Ghozali, A., dan Ariyaningsih. (2021). Factors Influencing Adequate Sanitation on Domestic Wastewater Management of Black Water Type in Margasari Village. *IOP Conference Series: Earth and Environmental Science*, 778(1).
- Muliyadi, M., dan Safrudin, D. J. (2020). Pollutant Levels Comparison in Tofu Industrial and Domestic Wastewater in Ternate City. *Jurnal Kesehatan Masyarakat*, 15(3), 366–371. <https://doi.org/10.15294/kemas.v15i3.20748>

- Mulyanti, R., dan Susanto, H. (2018). Pengolahan Limbah Domestik Salinitas Tinggi (saline Domesticwastewater) dengan Teknologi Membran. School of Postgraduate Universitas Diponegoro.
- Murdiani, A. D. (2025). The Impact Of Domestic Waste On Water Quality Conditions And Fish Species Diversity In The Waters Of Tatah Bangkal Swamp Kelayan Timur District Banjarmasin City. In *Jurnal Chlorophyl* (Vol. 18).
- Murray, A., Ray, I., dan Nelson, K. L. (2009). An Innovative Sustainability Assessment for Urban Wastewater Infrastructure and Its Application in Chengdu, China. *Journal of Environmental Management*, 90(11), 3553–3560.
- Muzioreva, H., Gumbo, T., Kavishe, N., Moyo, T., dan Musonda, I. (2022). Decentralized Wastewater System Practices in Developing Countries: a Systematic Review. *Utilities Policy*, 79.
- Nagu, N and Lessy, M. R. (2020). The behavior of coastal communities onmanagement of domestic wastewater in TernateCity, Indonesia. In *IOP Conference Series: Materials Science and Engineering* (Vol. 161, Issue 1, pp. 1–7). IOP Conference Series: Earth and Environmental Science.
- Nalle, V. I. W., Syaputri, M. D., dan Haryono, P. F. (2019). Issues in Acceleration of Establishment of Domestic Wastewater Regulation in Indonesia. *Mediterranean Journal of Social Sciences*, 10(6).
- Namaldi, O., dan Azgin, S. T. (2023). Evaluation of the treatment performance and reuse potential in agriculture of organized industrial zone (OIZ) wastewater through an innovative vermifiltration approach. *Journal of Environmental Management*, 327. <https://doi.org/10.1016/j.jenvman.2022.116865>
- Namavar, M., Moghaddam, M. R. A., dan Shafiei, M. (2023). Developing an indicator-based assessment framework for assessing the sustainability of urban water management. *Sustainable Production and Consumption*, 40, 1–12. <https://doi.org/10.1016/j.spc.2023.06.006>
- Nazira, dan Nurdin, A. (2021). Peran kritis kesehatan masyarakat dalam membangun masyarakat yang berkelanjutan. In *Public health Journal*. <https://teewanjournal.com/index.php/phj/index>
- Noerhayati, E., Rahmawati, A., dan Solikhin, G. N. (2022). Household greywater processing model based on the constructed wetland concept. In S. A., G. S.H., M. M.E., S. S., H. D., K. R.D., dan D. T. (Eds.), 2nd International Symposium of Earth, Energy, Environmental Science and Sustainable Development 2021 (Vol. 2534). American Institute of Physics Inc. <https://doi.org/10.1063/5.0106057>

- Nogueira, R., Garfi, M., dan Corbella, O. (2023). Comparative Life Cycle and Techno-economic Assessment of Constructed Wetland, Microbial Fuel Cell, and Their Integration for Wastewater Treatment. *Water*, 7(3), 57.
- Nopriani, M., Fauzi, A., dan Nuva, N. (2022). Analisis Prospektif untuk Keberlanjutan Pengelolaan TPS 3R di Kota Pangkalpinang. *Jurnal Pendidikan Tambusai*, 6(3), 13791–13808.
- Nourbakhsh, S. A., Hassanpour Darvishi, H., dan Ebrahimi, H. (2023). Develop and Prioritize Domestic Wastewater Use Scenarios With SWOT and QSPM Analytical Matrices — Case Study: Sabzevar City Treatment Plant. *Desalination and Water Treatment*, 285, 189–203.
- Obaideen, K., Shehata, N., Taha, E., dan Ali, M. (2022). The Role of Wastewater Treatment in Achieving Sustainable Development Goals (Sdgs) and Sustainability Guideline. *Energy Nexus*, 7(January), 100112.
- Obayomi, O. V., Olawoyin, D. C., Oguntimehin, O., Mustapha, L. S., Kolade, S. O., Oladoye, P. O., Oh, S., dan Obayomi, K. S. (2024). Exploring Emerging Water Treatment Technologies for the Removal of Microbial Pathogens. *Current Research in Biotechnology*, 8, 100252.
- Octavian, A., Marsetio, M., Hilmawan, A., dan Rahman, R. (2022). Upaya Perlindungan Pesisir dan Pulau-pulau Kecil Pemerintah Provinsi Sumatera Barat dari Ancaman Abrasi dan Perubahan Iklim. *Jurnal Ilmu Lingkungan*, 20(2), 302–315.
- Oktaningtyas, E., Yulianto, A., dan Kurniawan, B. (2024). Performance of Vertical Flow Constructed Wetland Using *Lepironia Articulata* for Greywater Treatment. *Journal of Biodiversity and Environmental Sciences*, 15(2), 34–43. <https://doi.org/10.61435/jbes.2024.19920>
- Oktiawan, W., Hardyanti, N., dan Damayanti, P. (2018). Masterplan Sistem Pengelolaan Air Limbah Domestik di Wilayah Perkotaan Kabupaten Sukoharjo. *Jurnal Presipitasi : Media Komunikasi Dan Pengembangan Teknik Lingkungan*, 15(2), 69.
- Oladoja, N. A. (2017). Appropriate Technology for Domestic Wastewater Management in Under-resourced Regions of the World. *Applied Water Science*, 7(7), 3391–3406.
- Onu, M. A., Ayeleru, O. O., Oboirien, B., dan Olubambi, P. A. (2023). Challenges of wastewater generation and management in sub-Saharan Africa: A Review. In *Environmental Challenges* (Vol. 11). Elsevier B.V. <https://doi.org/10.1016/j.envc.2023.100686>
- Oteng-Pepurah, M., Acheampong, M. A., dan deVries, N. K. (2018). Greywater Characteristics, Treatment Systems, Reuse Strategies and User Perception—a Review. *Water, Air, and Soil Pollution*, 229(8).
- Ouyang, X., Guo, F., Shan, D., Yu, H., dan Wang, J. (2015). Development of the Integrated Fuzzy Analytical Hierarchy Process With Multidimensional Scaling in Selection of Natural Wastewater Treatment Alternatifs. *Ecological Engineering*, 74, 438–447.

- Padilla-Rivera, A., dan Güereca, L. P. (2019). A Proposal Metric for Sustainability Evaluations of Wastewater Treatment Systems (SEWATS). *Ecological Indicators*, 103, 22–33.
- Padilla-Rivera, A., Morgan-Sagastume, J. M., Noyola, A., dan Güereca, L. P. (2016). Addressing Social Aspects Associated With Wastewater Treatment Facilities. *Environmental Impact Assessment Review*, 57, 101–113.
- Pan, T., dan Zhou, W. (2024). Navigating Pro-environmental Behavior Among Tourists: the Role of Value-belief-norm Theory, Personality Traits, and Commitment. *Journal of Hospitality and Tourism Management*, 61, 226–239.
- Panebianco, S., dan Pahl-Wostl, C. (2006). Modelling Socio-technical Transformations in Wastewater Treatment-a Methodological Proposal. *Technovation*, 26(9), 1090–1100.
- Pangestu, R., Riani, E., dan Effendi, H. (2017). Estimasi Beban Pencemaran Point Source dan Limbah Domestik di Sungai Kalibaru Timur Provinsi DKI Jakarta, Indonesia. *Jurnal Pengelolaan Sumberdaya Alam dan Lingkungan (Journal of Natural Resources and Environmental Management)*, 7(3), 219–226.
- Papaiacovou, I. (2001). Case study - Wastewater reuse in Limassol as an alternative water source. *Desalination*, 138(1–3), 55–59. [https://doi.org/10.1016/S0011-9164\(01\)00244-2](https://doi.org/10.1016/S0011-9164(01)00244-2)
- Patel, D., Mudgal, A., Patel, V., dan Patel, J. (2022). Techno-economic Analysis of Forward Osmosis System for Domestic Wastewater Treatment. *Materials Today: Proceedings*, xxx.
- Patty, S. I., Yalindua, F. Y., dan Ibrahim, P. S. (2021). Analisis Kualitas Perairan Bolaang Mongondow, Sulawesi Utara Berdasarkan Parameter Fisika-kimia Air Laut. *Jurnal Kelautan Tropis*, 24(1), 113–122.
- Pausta, C. M., Kalbar, P., dan Saroj, D. (2024). Life Cycle Assessment of Nutrient Recovery Strategies From Domestic Wastewaters to Quantify Environmental Performance and Identification of Trade-offs. *Scientific Reports*, 14(1).
- Pearce, D.W. dan R.K. Turner. 1990. *Economics of Natural Resources and The Environment*. Harvester Wheatsheaf.
- Pemerintah Republik Indonesia. (2021). Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 Tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup. Jakarta: Pemerintah Republik Indonesia.
- Pertiwi, D. A. M. D. (2018). Efektivitas Pengolahan Limbah Cair Laundry Menggunakan Metode Koagulasi dengan Variasi Dosis Koagulan PAC dan Aluminium Sulfat (studi Kasus: Padma Resort, Puhu, Payangan, Gianyar Bali). Universitas Brawijaya.
- Pezzoli, K. 1997. Sustainable Development : A Transdisciplinary Overview of The Literature. *Journal of Environmental Planning and Management* 40 : pp 549 – 574

- Pfennig-Butterworth, A., Buckley, L. B., Drake, J. M., Farner, J. E., Farrell, M. J., Gehman, A.-L. M., Mordecai, E. A., Stephens, P. R., Gittleman, J. L., dan Davies, J. (2024). *Review Interconnecting global threats: climate change, biodiversity loss, and infectious diseases*. www.thelancet.com/
- Pinto, Z. (2016). Kajian Perilaku Masyarakat Pesisir yang Mengakibatkan Kerusakan Lingkungan (studi Kasus di Pantai Kuwaru, Desa Poncosari, Kecamatan Srandakan, Kabupaten Bantul, Provinsi DIY). *Jurnal Wilayah Dan Lingkungan*, 3(3), 163.
- Pivo, G., Henry, A. D., dan Berger, L. (2020). Essential Elements at Play in Local Environmental Policy Change: a Guide for the Perplexed. *Environmental Science and Policy*, 106(March), 240–249.
- Plevri, A., Barka, E., Noutsopoulos, C., dan Mamais, D. (2023). Enhancing the Performance of AnMBR Treating Municipal Wastewater at a High Organic Loading Rate with Iron Addition. *Energies*, 16(7). <https://doi.org/10.3390/en16073069>
- Pratap, B., Kumar, S., Nand, S., Azad, I., Bharagava, R. N., Romanholo Ferreira, L. F., dan Dutta, V. (2023). Wastewater Generation and Treatment by Various Eco-friendly Technologies: Possible Health Hazards and Further Reuse for Environmental Safety. *Chemosphere*, 313(December 2022), 137547.
- Pratiwi, J. R., Ramadani, B. M. F., dan Tambunan, E. A. (2023). Community Perception In Domestic Wastewater Treatment To Reduce River Pollution: A Study In Rw 09 Kotalama Village, Kedungkandang Subdistrict, Malang City. *E3S Web of Conferences*, 445. <https://doi.org/10.1051/e3sconf/202344501026>
- Prouty, C., Mohebbi, S., dan Zhang, Q. (2018). Socio-technical Strategies and Behavior Change to Increase the Adoption and Sustainability of Wastewater Resource Recovery Systems. *Water Research*, 137, 107–119.
- Prüss-Ustün, A., Bartram, J., Clasen, T., Colford, J. M., Cumming, O., Curtis, V., Bonjour, S., Dangour, A. D., De France, J., Fewtrell, L., Freeman, M. C., Medlicott, K., Neira, M., Stocks, M., Wolf, J., dan Cairncross, S. (2014). Burden of Disease From Inadequate Water, Sanitation and Hygiene in Low- and Middle-income Settings: a Retrospective Analysis of Data From 145 Countries. *Tropical Medicine dan International Health*, 19(8), 894–905.
- Puspitasari, D. E. (2009). Dampak Pencemaran Air Terhadap Kesehatan Lingkungan Dalam Perspektif Hukum Lingkungan (studi Kasus Sungai Code di Kelurahan Wirogunan Kecamatan Mergangsan dan Kelurahan Prawirodirjan Kecamatan Gondomanan Yogyakarta). *Mimbar Hukum-Fakultas Hukum Universitas Gadjah Mada*, 21(1), 23–34.

- Putri, D. W., Soewondo, P., Effendi, A. J., dan Setiadi, T. (2016). Sustainability Analysis of Domestic Wastewater Treatment Technology Applied on Human Settlement in Swamp Area. *International Journal of Scientific dan Engineering Research*, 7(9), 54–66.
- Rahayu, P., Woltjer, J., dan Firman, T. (2019). Water Governance in Decentralising Urban Indonesia. *Urban Studies*, 56(14), 2917–2934.
- Rahman, M. E., Halmi, M. I. E. Bin, Samad, M. Y. B. A., Uddin, M. K., Mahmud, K., Shukor, M. Y. A., Abdullah, S. R. S., dan Shamsuzzaman, S. M. (2020). Desain, Operation and Optimization of Constructed Wetland for Removal of Pollutant. In *International Journal of Environmental Research and Public Health* (Vol. 17, Issue 22, pp. 1–40). MDPI AG.
- Rahman, M. E., Halmi, M. I. E. Bin, Samad, M. Y. B. A., Uddin, M. K., Mahmud, K., Shukor, M. Y. A., Abdullah, S. R. S., dan Shamsuzzaman, S. M. (2020). Design, operation and optimization of constructed wetland for removal of pollutant. In *International Journal of Environmental Research and Public Health* (Vol. 17, Issue 22, pp. 1–40). MDPI AG. <https://doi.org/10.3390/ijerph17228339>
- Rarasari, D. M. G., Restu, I. W., dan Ernawati, N. M. (2018). Efektivitas Pengolahan Limbah Domestik di Instalasi Pengolahan Air Limbah (IPAL) Suwung-denpasar, Bali. *Journal of Marine and Aquatic Sciences*, 5(2), 153.
- Ratna, E. (2017). Kajian Perilaku Sanitasi Masyarakat Suku Bajo di Wilayah Pesisir (Studi Kasus Kampung Wuring, Kabupaten Sikka-Nusa Tenggara Timur) (Doctoral Dissertation, Universitas Gadjah Mada).
- Ren, J., Liang, H., dan Chan, F. T. S. (2017). Urban Sewage Sludge, Sustainability, and Transition for Eco-city: Multi-criteria Sustainability Assessment of Technologies Based on Best-worst Method. *Technological Forecasting and Social Change*, 116, 29–39.
- Rice, W. S., Sowman, M. R., dan Bavinck, M. (2021). Informing a Conservation Policy-praxis Disjuncture: a ‘commons’ Perspective to Tackling Coastal-marine Community-conserved Area Implementation in South Africa. *Biological Conservation*, 261(June), 109296.
- Rimi, I., dan Dalhat, N. (2022). Household Attitudes Toward Wastewater Recycling in Saudi Arabia. *Utilities Policy*, 76(October 2021), 101372.
- Rinaldo, A., Bertuzzo, E., Blokesch, M., Mari, L., dan Gatto, M. (2017). Modeling Key Drivers of Cholera Transmission Dynamics Provides New Perspectives for Parasitology. *Trends in Parasitology*, 33(8), 587–599.
- Rismawati, A., dan Sya’aban, M. B. A. (2023). Potret Kesadaran Ekologis Masyarakat: Studi Pengetahuan Masyarakat Tentang Limbah Air Rumah Tangga Terhadap Pencemaran Lingkungan. *AL MA’ARIEF: Jurnal Pendidikan Sosial Dan Budaya*, 5(2), 98–110.

- Robles, Á., Jiménez-Benítez, A., Giménez, J. B., Durán, F., Ribes, J., Serralta, J., Ferrer, J., Rogalla, F., dan Seco, A. (2022). A Semi-industrial Scale Anmbr for Municipal Wastewater Treatment at Ambient Temperature: Performance of the Biological Process. *Water Research*, 215(February).
- Rodrigues, P. M., Pinto, F. S., dan Marques, R. C. (2024). A Framework for Enabling Conditions for Wastewater Reuse. *Sustainable Production and Consumption*, 46, 355–366.
- Rodríguez-Castillo, M., Bolívar-Paypay, V., Poganietz, W. R., dan Prieto, A. L. (2023). Indicators for the Sustainability Assessment of MBR Technologies for Wastewater Reuse in Chile: the Good, the Bad, and the Ugly. *MethodsX*, 10(December 2022).
- Rosiek, K. (2020). Directions and Challenges in the Management of Municipal Sewage Sludge in Poland in the Context of the Circular Economy. *Sustainability (Switzerland)*, 12(9).
- Rout, P. R., Shahid, M. K., Dash, R. R., Bhunia, P., Liu, D., Varjani, S., Zhang, T. C., dan Surampalli, R. Y. (2021). Nutrient Removal From Domestic Wastewater: a Comprehensive Review on Conventional and Advanced Technologies. *Journal of Environmental Management*, 296.
- Ruas, G., Serejo, M. L., Farias, S. L., Scarcelli, P., dan Boncz, M. Á. (2022). Removal of pathogens from domestic wastewater by microalgal-bacterial systems under different cultivation conditions. *International Journal of Environmental Science and Technology*, 19(10), 10177–10188. <https://doi.org/10.1007/s13762-021-03820-2>
- Ruas, G., Serejo, M. L., Farias, S. L., Scarcelli, P., dan Boncz, M. Á. (2022). Removal of Pathogens From Domestic Wastewater by Microalgal-bacterial Systems Under Different Cultivation Conditions. *International Journal of Environmental Science and Technology*, 19(10), 10177–10188.
- Ryan, S. J., Lippi, C. A., Nightingale, R., Hamerlinck, G., Borbor-Cordova, M. J., Cruz B, M., Ortega, F., Leon, R., Waggoner, E., dan Stewart-Ibarra, A. M. (2019). Socio-ecological Factors Associated With Dengue Risk and Aedes Aegypti Presence in the Galápagos Islands, Ecuador. *International Journal of Environmental Research and Public Health*, 16(5), 1–16.
- Sa’ad, S. F., Wan Alwi, S. R., Lim, J. S., dan Abd Manan, Z. (2022). The economic study of centralised water reuse exchange system in the industrial park considering wastewater segregation. *Computers and Chemical Engineering*, 164, 107863. <https://doi.org/10.1016/j.compchemeng.2022.107863>
- Sabeen, A. H., Noor, Z. Z., Ngadi, N., Almuraissy, S., dan Raheem, A. B. (2018). Quantification of environmental impacts of domestic wastewater treatment using life cycle assessment: A review. In *Journal of Cleaner Production* (Vol. 190, pp. 221–233). Elsevier Ltd. <https://doi.org/10.1016/j.jclepro.2018.04.053>

Sahara, A. (2022). Gambaran Sanitasi Lingkungan Pada Masyarakat Pesisir Pantai Pandan Sibolga. *JOSR:*

Journal of Social Research Juli, 8(1), 871–876.

<http://https://ijsr.internationaljournallabs.com/index.php/ijsr><http://ijsr.internationaljournallabs.com/index.php/ijsr>

[s.com/index.php/ijsr](http://https://ijsr.internationaljournallabs.com/index.php/ijsr)

Said, N. I. (2018). Pengelolaan Air Limbah Domestik di DKI Jakarta. *Jurnal Air Indonesia*, 2(2).

Salomi, M. R., Samin, M., dan Theo Tomi Pamungkas, B. (2023). Analisis Laju Jumlah Penduduk Terhadap Ketersediaan Air Bersih untuk Pemenuhan Kebutuhan Rumah Tangga di Desa Lakat Kecamatan Kuantana Kabupaten Timor Tengah Selatan. *Jurnal Geografi* Volume 19 Nomor 1 Juni 2023, 19(1), 104–117.

Sanchis-Perucho, P., Robles, Á., Durán, F., Rogalla, F., Ferrer, J., dan Seco, A. (2021). Widening the applicability of AnMBR for urban wastewater treatment through PDMS membranes for dissolved methane capture: Effect of temperature and hydrodynamics. *Journal of Environmental Management*, 287. <https://doi.org/10.1016/j.jenvman.2021.112344>

Sandoval-García, V., Ruano, M. V., Alliet, M., Brepols, C., Comas, J., Harmand, J., Heran, M., Mannina, G., Rodriguez-Roda, I., Smets, I., dan Robles, A. (2025). Modeling MBR Fouling: a Critical Review Analysis Towards Establishing a Framework for Good Modeling Practices. *Water Research*, 268(Part A), 122611.

Santo, F. E., Utomo, S., dan Sir, T. M. W. (2019). Perencanaan Instalasi Pengelolaan Air Limbah Sistem Komunal pada Perumahan Kodim 1605 Belu. *Jurnal Teknik Sipil*, VIII(1), 57.

Santos, E., Carvalho, M., dan Martins, S. (2023). Sustainable Water Management: Understanding the Socioeconomic and Cultural Dimensions. *Sustainability (Switzerland)*, 15(17).

Savio, N., Pandey, D., dan Srivastava, R. K. (2022). Materials Today : Proceedings Potentialities of Plant Based Hybrid Wetland Systems for the Treatment of Household Waste Water Using Canna Indica , Agave Americana , Pistia Stratiotes and Tagetes Erecta. *Materials Today: Proceedings*, xxxx.

Scholz, M., Harrington, R., Carroll, P., dan Mustafa, A. (2007). The Integrated Constructed Wetlands (ICW) Concept. *Wetlands*, 27, 337–354. [https://doi.org/10.1672/0277-5212\(2007\)27\[337:TICWIC\]2.0.CO;2](https://doi.org/10.1672/0277-5212(2007)27[337:TICWIC]2.0.CO;2)

Sclar, G. D., Penakalapati, G., Caruso, B. A., Rehfuess, E. A., Garn, J. V., Alexander, K. T., Freeman, M. C., Boisson, S., Medicott, K., dan Clasen, T. (2018). Exploring the Relationship Between Sanitation and Mental and Social Well-being: a Systematic Review and Qualitative Synthesis. *Social Science dan Medicine*, 217, 121–134.

- Sembiring, E. T. J., dan Safithri, A. (2021). Permasalahan Sanitasi di Pemukiman Pesisir Jakarta Serta Rekomendasi Teknologi Pengelolaannya. *Environmental Occupational Health and Safety Journal*, 2(1).
- Sembuil, A., Nor, A., dan A-Halim, M. H. (2022). Sustainable Indicators for Desaining the Wastewater Treatment Plant. *IOP Conference Series: Earth and Environmental Science*, 1091(1), 0–10.
- Shayan, N. F., Mohabbati-Kalejahi, N., Alavi, S., dan Zahed, M. A. (2022). Sustainable Development Goals (SDGs) as a Framework for Corporate Social Responsibility (CSR). *Sustainability (Switzerland)*, 14(3). <https://doi.org/10.3390/su14031222>
- Shukla, A., Parde, D., Gupta, V., Vijay, R., dan Kumar, R. (2022). A review on effective design processes of constructed wetlands. *International Journal of Environmental Science and Technology*, 19(12), 12749–12774. <https://doi.org/10.1007/s13762-021-03549-y>
- Shuralla, A. H., Hiruey, A. M., dan Gebreeyessus, G. D. (2024). Treatment Appraisal and Fate of Hms in Up-flow Anaerobic Sludge Blanket and Trickling Filter-based Sewage Treatment Process: the Case of a Kaliti Centralized Wastewater Treatment Plant, Addis Ababa, Ethiopia. *Heliyon*, 10(13), e34003.
- Silva, J. A. (2023). Wastewater Treatment and Reuse for Sustainable Water Resources Management: a Systematic Literature Review. *Sustainability (Switzerland)*, 15(14).
- Simha, P., Zabaniotou, A., dan Ganesapillai, M. (2018). Continuous Urea–nitrogen Recycling From Human Urine: a Step Towards Creating a Human Excreta Based Bio–economy. *Journal of Cleaner Production*, 172, 4152–4161.
- Siswati, M., Syafrudin, S., dan Sriyana, S. (2017). Uji Kriteria Manajemen dalam Pengelolaan Air Limbah Domestik Terpusat. *Media Komunikasi Teknik Sipil*, 23(1), 77. <https://doi.org/10.14710/mkts.v23i1.12780>
- Sojobi, A. O., dan Zayed, T. (2022). Impact of Sewer Overflow on Public Health: a Comprehensive Scientometric Analysis and Systematic Review. In *Environmental Research (Vol. 203)*. Academic Press Inc.
- Sonawane, A. V., dan Murthy, Z. V. P. (2023). Domestic wastewater treatment by membrane bioreactor system and optimization using response surface methodology. *International Journal of Environmental Science and Technology*, 20(1), 177–196. <https://doi.org/10.1007/s13762-021-03761-w>
- Soo, A., dan Shon, H. K. (2024). A nutrient circular economy framework for wastewater treatment plants. *Desalination*, 592. <https://doi.org/10.1016/j.desal.2024.118090>
- Sorber, C. A., dan Guter, K. J. (1975). Health and hygiene aspects of spray irrigation. *American Journal of Public Health*, 65(1), 47–52. <https://doi.org/10.2105/AJPH.65.1.47>

- Sriboonnak, S., Yanun, A., Induvesa, P., Pumas, C., Duangjan, K., Rakruam, P., Nitayavardhana, S., Sittisom, P., dan Wongrueng, A. (2022). Efficiencies of O-MBR and A/O-MBR for Organic Matter Removal From and Trihalomethane Formation Potential Reduction in Domestic Wastewater. *Membranes*, 12(8), 1–14.
- Stefanakis, A. I. (2015). Constructed wetlands: Description and benefits of an eco-tech water treatment system. In *Impact of Water Pollution on Human Health and Environmental Sustainability* (pp. 281–303). IGI Global. <https://doi.org/10.4018/978-1-4666-9559-7.ch012>
- Steffi, J. P., Gautam, S., Muralkar, P., dan Jebasingh, B. (2023). Characterization of Segregated Greywater From Rural Indian Households: an Instrumental Case Study. *Total Environment Research Themes*, 6.
- Stentella, R., Cislighi, A., Rossi, L. M. W., Giupponi, L., Bona, E., Zambonardi, A., Rizzo, L., Esposto, F., dan Bischetti, G. B. (2023). Ecological Desain of Constructed Wetlands in Cold Mountainous Region: From Literature to Experience. *Landscape and Ecological Engineering*.
- Sugiharto. 2014. *Dasar-Dasar Pengelolaan Air Limbah*. Jakarta : UI Press.
- Suhaimi, A., dan Agus Brata, T. (2022). Kajian Hukum Tentang Pengelolaan Wilayah Pesisir dan Pulau-Pulau Kecil di Indonesia. *Februari 2022*, 10(1), 163.
- Suharto, Ign. 2010. *Limbah Kimia dalam Pencemaran Udara dan Air*. Yogyakarta : Penerbit Andi.
- Suleman, H., Pratama, R., dan Astuti, D. (2023). Application of Household-Scale Horizontal Flow Constructed Wetland for Greywater Treatment in Coastal Communities. *Presipitasi: Jurnal Ilmiah Teknik Sipil*, 20(1), 15–22. <https://doi.org/10.14710/presipitasi.v21i3.681-695>
- Sumiyati, S., Sutrisno, E., dan Wicaksono, F. (2023). Pengolahan Air Limbah Domestik dengan Teknologi Hybrid Bioreaktor Biofilm-fitoremediasi. *Jurnal Ilmu Lingkungan*, 21, 403–407.
- Sururi, M. R., Dirgawati, M., Wiliana, W., Fadlurrohman, F., Hardika, dan Widiyati, N. (2023). Performance Evaluation of Domestic Waste Water Treatment System in Urban Indonesia. *Case Studies in Chemical and Environmental Engineering*, 8.
- Syamsiyah, N., Sadeli, A. H., Saidah, Z., Noor, T. I., dan Widiyanesti, S. (2025). Community Participation in the Development of Sustainable, Environmentally Conscious Villages in the Cirasea Sub-Watershed, Indonesia. *Sustainability (Switzerland)*, 17(11). <https://doi.org/10.3390/su17114871>
- Tang, Z., Wood, J., Smith, D., Thapa, A., dan Aryal, N. (2021). A review on constructed treatment wetlands for removal of pollutants in the agricultural runoff. In *Sustainability (Switzerland)* (Vol. 13, Issue 24). MDPI. <https://doi.org/10.3390/su132413578>

- Tarawneh, A., Assad, S., Alkhalil, S., dan Suleiman, A. (2024). Assessing Acceptance of Treated Wastewater Reuse in Jordan: a Study of Knowledge and Preferences. *Desalination and Water Treatment*, 317.
- Taweesan, A., Kanabkaew, T., Surinkul, N., dan Polprasert, C. (2023). Convenient Solutions to Inconvenient Truth: Domestic Wastewater Management-based Approaches to Sustainable Development Goal No. 6. *Environmental and Sustainability Indicators*, 18.
- Thoyibah, Z., Hajri, Z., dan Hardiani, S. (2020). Lingkungan Fisik Rumah pada Balita Penderita Ispa. *Jurnal Ilmiah ...*, 10(2), 29–35.
- Tomasek, M. D. (1987). Operational problems with a soil filtration system for treating stormwater. *Lake and Reservoir Management*, 3(1), 306–313. <https://doi.org/10.1080/07438148709354786>
- Tripathi, S., Purchase, D., Chandra, R., Nadda, A. K., dan Chaturvedi, P. (2023). Emerging Pollutants Characterization, Mitigation and Toxicity Assessment of Sewage Wastewater Treatment Plant- India: a Case Study. *Journal of Contaminant Hydrology*, 254(June 2022), 104139.
- Try, E., Sembiring, J., dan Safithri, A. (2021). Permasalahan Sanitasi di Pemukiman Pesisir Jakarta serta Rekomendasi Teknologi Pengelolaannya. *Environmental Occupational Health and Safety Journal*, 2(1), 19–34.
- Tuluk, B., Yildiz, E., Nuhoglu, A., Tataroglu, N. S., Gulluce, E., Cengiz, I., Degermenci, N., dan Angin, I. (2022). High-speed Treatment of Low Strength Domestic Wastewater for Irrigation Water Production in Pilot-scale Classical, Moving Bed and Fixed Bed Hybrid MBRs. *Journal of Cleaner Production*, 375(September), 134084.
- Tyler, E. J., Converse, J. C., dan Parker, D. E. (1986). Soil systems for community wastewater disposal—treatment and absorption case histories. *Lake and Reservoir Management*, 2(1), 391–396. <https://doi.org/10.1080/07438148609354663>
- Uddin, S. M. N., Li, Z., Mang, H.-P., Huba, E.-M., dan Lapegue, J. (2014). A Strengths, Weaknesses, Opportunities, and Threats Analysis on Integrating Safe Water Supply and Sustainable Sanitation Systems. *Journal of Water, Sanitation and Hygiene for Development*, 4(3), 437–448.
- Ugboko, H. U., Nwinyi, O. C., Oranusi, S. U., dan Oyewale, J. O. (2020). Childhood Diarrhoeal Diseases in Developing Countries. In *Heliyon* (Vol. 6, Issue 4). Elsevier Ltd.
- Umar, M. A., Baiquni, M., dan Ritohardoyo, S. (2011). Peran Masyarakat dan Pemerintah Dalam Pengelolaan Air Limbah Domestik di Wilayah Ternate Tengah. *Majalah Geografi Indonesia*, 25(1), 42–54.

- Ung, H. T. T., Leu, B. T., Tran, H. T. H., Nguyen, L. N., Nghiem, L. D., Hoang, N. B., Pham, H. T., dan Duong, H. C. (2022). Combining Flowform Cascade With Constructed Wetland to Enhance Domestic Wastewater Treatment. *Environmental Technology and Innovation*, 27, 102537.
- Urbanc-Bercic, O., dan Bulc, T. (1995). Integrated constructed wetland for small communities. *Water Science and Technology*, 32(3), 41–47. [https://doi.org/https://doi.org/10.1016/0273-1223\(95\)00603-6](https://doi.org/https://doi.org/10.1016/0273-1223(95)00603-6)
- Usman, U., Subagio, S., dan Sukri, A. (2017). Analisis Struktur Ekosistem Terumbu Karang di Pulau Bungin sebagai Bahan Pengenalan Ekosistem Terumbu Karang Bagi Masyarakat. *Jurnal Ilmiah Pendidikan Biologi "Bioscientist"*, 5(1), 2338–5006.
- UTS-ISF, UI, dan UNICEF. (2021). Climate Resilient Urban Sanitation in Indonesia: Hazards, Impacts and Responses in Four Cities. Institute for Sustainable Futures, University of Technology Sydney.
- Valette, H., dan Colon, M. (2024). Institutional Change for the Development of Urban Sanitation in the Global South: a Social Science Review. *Utilities Policy*, 88.
- Vitasari, V., Syakti, A. D., Suryanti, A., Viruly, L., Jaaman, S. A., Lestari, F., Nevrita, N., dan Azizah, D. (2024). Review of Waste Management in Indonesian Small Islands in the Last Five Years (2018-2023). *Jurnal Wilayah dan Lingkungan*, 12(2), 107-120. <https://doi.org/10.14710/jwl.12.2.107-120>
- Vladut-Severian Jacob. (2013). The Wastewater - a Problem of Integrated Urban Water Management. *Procedia Economics and Finance*, 6(13), 436–443.
- Vunain, E., Masoamphambe, E. F., Mpeketula, P. M. G., Monjerezi, M., dan Etale, A. (2019). Evaluation of Coagulating Efficiency and Water Borne Pathogens Reduction Capacity of Moringa Oleifera Seed Powder for Treatment of Domestic Wastewater From Zomba, Malawi. *Journal of Environmental Chemical Engineering*, 7(3).
- Vymazal, J. (2011). Constructed Wetlands for Wastewater Treatment: Five Decades of Experience. *Environmental Science dan Technology*, 45(1), 61–69.
- Wahanisa, R., dan Adiyatma, S. E. (2021). The Conception of Principle of Sustainability In Environmental Protection and Management Value of Pancasila. *Bina Hukum Lingkungan*, 6(1). <https://doi.org/10.24970/bhl.v6i1.145>
- Wand, H., Vacca, G., Kuschik, P., Krüger, M., dan Kästner, M. (2007). Removal of Bacteria by Filtration in Planted and Non-planted Sand Columns. *Water Research*, 41(1), 159–167.
- Wang, T., Wang, Z., Wang, T., Shumin, M., Hu, S., Gao, S., Ye, L., Runfa, C., dan Arhonditsis, G. (2024). Evaluation of the Role of Urban Domestic Wastewater Treatment Systems for Greenhouse Gases Emissions in China. *Ecological Informatics*, 81.

- Wang, X., South, A., Farnsworth, C., dan Hashimoto, B. (2024). From three-pillars to three-environments: Shifting the paradigm of sustainability in civil and construction engineering. In *Cleaner Engineering and Technology* (Vol. 20). Elsevier Ltd. <https://doi.org/10.1016/j.clet.2024.100748>
- Wang, Y., dan Serventi, L. (2019). Sustainability of Dairy and Soy Processing: a Review on Wastewater Recycling. In *Journal of Cleaner Production* (Vol. 237). Elsevier Ltd.
- Wang, Y., Gao, Y., Lu, X., Gadow, S. I., Zhuo, G., Hu, W., Song, Y., dan Zhen, G. (2023). Bioelectrochemical anaerobic membrane bioreactor enables high methane production from methanolic wastewater: Roles of microbial ecology and microstructural integrity of anaerobic biomass. *Chemosphere*, 339. <https://doi.org/10.1016/j.chemosphere.2023.139676>
- Wankhade, K. (2015). Urban Sanitation in India: Key Shifts in the National Policy Frame. *Environment and Urbanization*, 27(2), 555–572.
- Werkneh, A. A. (2024). Decentralized Constructed Wetlands for Domestic Wastewater Treatment in Developing Countries: Field-scale Case Studies, Overall Performance and Removal Mechanisms. In *Journal of Water Process Engineering* (Vol. 57). Elsevier Ltd.
- Werkneh, A. A., dan Gebru, S. B. (2023). Development of Ecological Sanitation Approaches for Integrated Recovery of Biogas, Nutrients and Clean Water From Domestic Wastewater. *Resources, Environment and Sustainability*, 11, 100095.
- Widyarani, Wulan, D. R., Hamidah, U., Komarulzaman, A., Rosmalina, R. T., dan Sintawardani, N. (2022). Domestic Wastewater in Indonesia: Generation, Characteristics and Treatment. *Environmental Science and Pollution Research*, 29(22), 32397–32414.
- Wirawan, S. M. S. (2019). Kajian Kualitatif Pengolahan Air Limbah di Jakarta. *Jurnal Riset Jakarta*, 12(2), 57–68.
- Wu, S., Austin, D., Liu, L., dan Dong, R. (2011). Performance of Integrated Household Constructed Wetland for Domestic Wastewater Treatment in Rural Areas. *Ecological Engineering*, 37(6), 948–954.
- Xing, C. H., Wen, X. H., Qian, Y., dan Tardieu, E. (2001). Microfiltration-membrane-coupled bioreactor for urban wastewater reclamation. *Desalination*, 141(1), 63–73. [https://doi.org/10.1016/S0011-9164\(01\)00389-7](https://doi.org/10.1016/S0011-9164(01)00389-7)
- Xu, R., Zhang, W., Fu, Y., Fan, F., Zhou, Z., Chen, J., Liu, W., dan Meng, F. (2023). The Positive Roles of Influent Species Immigration in Mitigating Membrane Fouling in Membrane Bioreactors Treating Municipal Wastewater. *Water Research*, 235.
- Yang, H., Chen, J., Yu, L., Li, W., Huang, X., Qin, Q., dan Zhu, S. (2022). Performance optimization and microbial community evaluation for domestic wastewater treatment in a constructed wetland-

- Yi, Y., Wang, Y., Fu, C., dan Li, Y. (2022). Taxes or Subsidies to Promote Investment in Green Technologies for a Supply Chain Considering Consumer Preferences for Green Products. *Computers and Industrial Engineering*, 171.
- Yudo, S., dan Said, N. I. (2018). Kebijakan dan kelembagaan dan Strategi Pengelolaan Air Limbah Domestik di Indonesia. *Jurnal Rekayasa Lingkungan*, 10(2).
<https://doi.org/10.29122/jrl.v10i2.2847>
- Zainal, A. (2013). Evaluasi dan Strategi Pengelolaan Air Limbah Domestik Kota Bandung—jawa Barat. Program Magister Ilmu Lingkungan Undip.
- Zhang, J., Jiang, Y., Zhang, H., Feng, D., Bu, H., Li, L., dan Lu, S. (2024). A Critical Review of Characteristics of Domestic Wastewater and Key Treatment Techniques in Chinese Villages. *In Science of the Total Environment* (Vol. 927). Elsevier B.V.
- Zhang, L., Xu, M., Du, Y., Wu, S., Feng, Q., Zhuang, Y., dan Li, S. (2014). Start-up Performance of a Novel Constructed Riparian Wetland for Removing Phosphorus From Agricultural Runoff. *In Journal of Integrative Environmental Sciences* (Vol. 11, Issue 2, pp. 143–154).
- Zhang, Y. F., Li, Y. P., Huang, G. H., dan Ma, Y. (2023). Sustainable Management of Water-economy-ecology Nexus Through Coupling Bi-level Fractional Optimization With Effluent-trading Mechanism: a Case Study of Dongjiang Watershed. *Ecological Indicators*, 154.
- Zhao, L., Fu, G., Pang, W., Li, X., Pan, C., dan Hu, Z. (2023). A Novel Autotrophic Denitrification and Nitrification Integrated Constructed Wetland Process for Marine Aquaculture Wastewater Treatment. *Chemosphere*, 321(January), 138157.
- Zhao, Q., Tian, J., Zhang, K., Wang, H., Li, M., Meng, S., Mu, R., Liu, L., Yin, M., Li, J., dan Liu, Y. (2021). Phosphate recovery from the P-enriched brine of AnMBR-RO-IE treating municipal wastewater via an innovated phosphorus recovery batch reactor with nano-sorbents. *Chemosphere*, 284(May), 131259. <https://doi.org/10.1016/j.chemosphere.2021.131259>
- Zhao, Y., Ji, B., Liu, R., Ren, B., dan Wei, T. (2020). Constructed treatment wetland: Glance of development and future perspectives. *Water Cycle*, 1(August), 104–112.
<https://doi.org/10.1016/j.watcyc.2020.07.002>
- Zhao, Y., Xue, X., Huang, Y., dan Kong, H. (2021). Evaluating comprehensive carrying capacity of coastal area using the matter-element extension method: A case study in Fujian Province of China. *Ocean and Coastal Management*, 214. <https://doi.org/10.1016/j.ocecoaman.2021.105902>

- Zheng, Y., Sun, Z., Liu, Y., Cao, T., Zhang, H., dan Hao, M. (2022). Phytoremediation Mechanisms and Plant Eco-physiological Response to Microorganic Contaminants in Integrated Vertical-flow Constructed Wetlands. *Journal of Hazardous Materials*, 424(PC), 127611.
- Zielińska, M., dan Ojo, A. (2023). Anaerobic Membrane Bioreactors (AnMBRs) for Wastewater Treatment: Recovery of Nutrients and Energy, and Management of Fouling. In *Energies* (Vol. 16, Issue 6). MDPI. <https://doi.org/10.3390/en16062829>
- Zieliński, M., Kazimierowicz, J., dan Dębowski, M. (2023). Advantages and Limitations of Anaerobic Wastewater Treatment—technological Basics, Development Directions, and Technological Innovations. In *Energies* (Vol. 16, Issue 1). MDPI. <https://doi.org/10.3390/en16010083>