

## DAFTAR PUSTAKA

- Adji, B.K., I. Octodhiyanto, R. Rahmayanti, and A.P. Nugroho. 2022. Microplastic pollution in Rawa Jombor Reservoir, Klaten, Central Java, Indonesia: accumulation in aquatic fauna, heavy metal interactions, and health risk assessment. *Water Air Soil Pollut*, 233: 1-20.
- Ahdiaty, R. dan Fitriana, D. 2020. Pengambilan Sampel Air Sungai Gajah Wong di Wilayah Kota Yogyakarta. *Indonesian Journal of Chemical Analysis*, 3(2): 65-73.
- Ahmed, A.S.S., M.B. Hossain, S.M.O. Babu, Md.M. Rahman, and Md.S.I. Sarker. 2021. Human health risk assessment of heavy metals in water from subtropical river, Gomti, Bangladesh. *Environmental Nanotechnology, Monitoring & Management*, 15: 1-11.
- Akhbarizadeh, R., F. Moore, and B. Keshavarzi. 2018. Investigating a probable relationship between microplastics and potentially toxic elements in fish muscles from northeast of Persian Gulf. *Environmental Pollution*, 232: 154-163.
- Alam, F.C., E. Sembiring, B.S. Muntalif, and V. Suendo. 2019. Microplastic distribution in surface water and sediment river around slum and industrial area (case study: Ciwalengke River, Majalaya district, Indonesia). *Chemosphere*, 224: 637-645.
- Ali, F., K.N. Azmi, and M.R. Firdaus. 2021. Existence of Microplastics in Indonesia's Surface Water: A Review. *The International Journal of Integrated Engineering*, 13(3): 100-107.
- Andrady, A.L. 2011. Microplastics in the marine environment. *Marine Pollution Bulletin*, 62(8): 1596-1605.
- Andrady, A.L. 2017. The plastic in microplastics: A review. *Marine Pollution Bulletin*, 119: 12-22.
- Andrady, A.L. and M.A. Neal. 2009. Application and societal benefits of plastics. *Phil. Trans. R. Soc. B*, 364(2009): 1977-1984.
- Asare, M.L., S.J. Cobbina, F.J. Akpabey, A.B. Duwiejuah, and Z.N. Abuntori. 2018. Heavy Metal Concentration in Water, Sediment and Fish Species in the Bontanga Reservoir, Ghana. *Toxicology and Environmental Health Science*, 10(1): 49-58.
- Azizi, A., N. Maulida, W.N. Setyowati, S. Fairus, and D.A. Puspito. 2022. Microplastic pollution in the water and sediment of Krukut River, Jakarta, Indonesia. *IOP Conf. Series: Earth and Environmental Science*, 986: 1-7.
- Babel, S., A.T. Ta, T.P.L. Nguyen, E. Sembiring, T. Setiadi, and A. Sharp. 2022. Microplastics pollution in selected rivers from Southeast Asia. *APN Science Bulletin*, 12(1): 5-17.
- Badan Standardisasi Nasional (BSN) Standar Nasional Indonesia (SNI) 7387:2009. 2009. *Batas cemaran maksimum logam berat dalam pangan*. Badan Standardisasi Nasional. Pp: 1-29.

- Balali-Mood, M., K. Naseri, Z. Tahergorabi, M.R. Khazdair, and M Sadeghi. 2021. Toxic Mechanisms of Five Heavy Metals: Mercury, Lead, Chromium, Cadmium, and Arsenic. *Frontiers in Pharmacology*, 12.
- Barboza, L.G.A., C. Lopes, P. Oliveira, F. Bessa, V. Otero, B. Henriques, J. Raimundo, M. Caetano, C. Vale, and L. Guilhermino. 2020. Microplastics in wild fish from North East Atlantic Ocean and its potential for causing neurotoxic effects, lipid oxidative damage, and human health risks associated with ingestion exposure. *Science of the Total Environment*, 717: 1-14.
- Browne, M.A., A. Dissanayake, T.S. Galloway, D.M. Lowe and R.C. Thompson. 2008. Ingested Microscopic Plastic Translocates to the Circulatory System of the Mussel, *Mytilus edulis* (L.). *Environmental Science & Technology*, 42(13): 5026-5031.
- Busira, J.J.Q.D., G. Prihatmo, dan S. Pakpahan. 2020. Kadar Logam Berat Timbal (Pb) pada Ikan Nila (*Oreochromis niloticus*) di Sungai Gajah Wong, Yogyakarta. *Journal of UIN Alauddin*, 5-1.
- Cai, N., L. Li, H. Zhu, L. Chen, S. Li, F. Meng, and X. Zhang. 2023. Multiple evaluations, risk assessment, and source identification of heavy metals in surface water and sediment of the Golmud River, northeastern Qinghai-Tibet Plateau, China. *Frontiers in Environmental Science*, 1-14.
- Chang, S. 2012. *Analysis of Polymer Standards by Fourier Transform Infrared Spectroscopy-Attenuated Total Reflectance and Pyrolysis Gas Chromatography/Mass Spectroscopy and the Creation of Searchable Libraries*. Atlanta: Marshall University Forensic Science Program.
- Claessens, M., L. van Cauwenberghe, M. Vandegehuchte and C. Janssen. 2013. New techniques for the detection of microplastics in sediments and field collected organisms. *Marine Pollution Bulletin*, 70(1-2): 227-233.
- Clere, I.K., F. Ahmmed, P.J.G. Remoto, S.J. Fraser-Miller, K.C. Gordon, V. Komyakova, and B.J.M. Allan. 2022. Quantification and characterization of microplastics in commercial fish from southern New Zealand. *Marine Pollution Bulletin*, 184: 1-10.
- Corcoran, P.L. 2020. Degradation of Microplastics in the Environment. *Handbook of Microplastics in the Environment*, 1-12.
- Djumanto and F. Setyawan. 2009. Food habits of the yellow rasbora, *Rasbora lateristriata*, (Family: Cyprinidae) broodfish during moving to spawning ground. *Journal of Fisheries Sciences*, 11(1): 107-114.
- Djumanto, M.I.P. Devi, I.F. Yusuf, and E. Setyobudi. 2014. Kajian dinamika populasi ikan kepek, *Mystacoleucus obtusirostris* (Valenciennes, in Cuvier & Valenciennes 1842) di Sungai Opak Yogyakarta. *Journal of Ikhtiologi*, 14(2): 145-156.
- Dodson, G.Z., A.K. Shotorban, P.G. Hatcher, D.C. Waggoner, S. Ghosal, and N. Noffke. 2020. Microplastic fragment and fiber contamination of beach

- sediments from selected sites in Virginia and North Carolina, USA. *Marine Pollution Bulletin*, 151: 1-11.
- Ebere, E.C., V.A. Wirnkor, V.E. Ngozi, and I.S. Chukwuemeka. 2019. Macrodebris and microplastics pollution in Nigeria: first report on abundance, distribution and composition. *Environmental Analysis Health and Technology*, 34(4): 1-15.
- Eo, S., S.H. Hong, Y.K. Song, G.M. Han, and W.J. Shin. 2019. Spatiotemporal distribution and annual load of microplastics in the Nakdong River, South Korea. *Water Research*, 160: 228-237.
- Firmansyah, S. Oktavilia, R. Prayogi, and R. Abdulah. 2019. Indonesian fish consumption: an analysis of dynamic panel regression model. *IOP Conference Series: Earth and Environmental Science*, 246: 1-5.
- Frias, J.P.G.L. and R. Nash. 2019. Microplastic: Finding a consensus on the definition. *Marine Pollution Bulletin*, 138(2019): 145-147.
- Galafassi, S., C. Campanale, C. Massarelli, V.F. Uricchio, and P. Volta. 2021. Do Freshwater Fish Eat Microplastics? A Review with A Focus on Effects on Fish Health and Predictive Traits of MPs Ingestion. *Water*, 13: 1-20.
- Garces-Ordóñez, O., J.F. Saldarriaga-Velez, L.F. Espinosa-Díaz, A.D. Patino, J. Cusba, M. Canals, K. Mejia-Esquivia, L. Fragozo-Velasquez, S. Saenz-Arias, T. Córdoba-Meza, and M. Thiel. 2022. Microplastic pollution in water, sediments and commercial fish species from Ciénaga Grande de Santa Marta lagoon complex, Colombian Caribbean. *Science of the Total Environment*, 829: 1-13.
- GESAMP. 2015. Sources, Fate and Effects of Microplastics in the Marine Environment: A Global Assessment. *International Maritime Organization*, London.
- GESAMP. 2016. Sources, Fate and Effects of Microplastics in the Marine Environment: Part 2 of a Global Assessment. *International Maritime Organization*, London.
- Godoy, V., G. Blazquez, M. Calero, L. Quesada, M.A. Martín-Lara. 2019. The potential of microplastics as carriers of metals. *Environmental Pollution*, 255: 1-12.
- He, D., X. Chen, W. Zhao, Z. Zhu, X. Qi, L. Zhou, W. Chen, C. Wan, D. Li, X. Zou, and N. Wu. 2021. Microplastics contamination in the surface water of the Yangtze River from upstream to estuary based on different sampling methods. *Environmental Research*, 196: 1-9.
- Hidalgo-Ruz, V., L. Gutow, R.C. Thompson and T. Martin. 2012. Microplastics in the Marine Environment: A Review of the Methods Used for Identification and Quantification. *Environmental Science & Technology*, 46(2012): 3060-3075.
- Hidayat, Y.A., S. Kiranamahsa and M.A. Zamal. 2019. A study of plastic waste management effectiveness in Indonesia industries. *AIMS Energy*, 7(3): 350-370.

- Jabeen, K., L. Su, J. Li, D. Yang, C. Tong, J. Mu, and H. Shi. 2017. Microplastics and mesoplastics in fish from coastal and fresh waters of China. *Environmental Pollution*, 221: 141-149.
- Jaiswal, M., S.K. Gupta, M. Chabukdhara, M. Nasr, A.K. Nema, J. Hussain and T. Malik. 2022. Heavy metal contamination in the complete stretch of Yamuna River: A fuzzy logic approach for comprehensive health risk assessment. *PLoS ONE*, 17(8): 1-19.
- Jambeck, J.R., R. Geyer, C. Wilcox, T.R. Siegler, M. Perryman, A. Andrady, R. Narayan, and K.L. Law. 2015. Plastic waste inputs from land into the ocean. *Marine Pollution*, 347(6223): 768-771.
- Jiang, C., L. Yin, Z. Li, X. Wen, X. Luo, S. Hu, H. Yang, Y. Long, B. Deng, L. Huang, and Y. Liu. 2019. Microplastic pollution in the rivers of the Tibet Plateau. *Environmental Pollution*, 249: 91-98.
- Jung, M., F. Horgen, S. Orski, V. Rodriguez, K. Beers, G. Balazs, T. Jones, T. Work, K. Brignac and S. Royer. 2018. Validation of ATR FT-IR to identify polymers of plastic marine debris, including those ingested by marine organisms. *Marine Pollution Bulletin*, 127(2018): 704-716.
- Khalid, N., M. Aqeel, A. Noman, S.M. Khan, and N. Akhter. 2021. Interactions and effects of microplastics with heavy metals in aquatic and terrestrial environments. *Environmental Pollution*, 290: 1-14.
- Kumar, R., P. Sharma, A. Verma, P.K. Jha, P. Singh, P.K. Gupta, R. Chandra, and P.V.V. Prasad. 2021. Effect of Physical Characteristics and Hydrodynamic Conditions on Transport and Deposition of Microplastics in Riverine Ecosystem. *Water*, 13: 1-20.
- Lenaker, P.L., A.K. Baldwin, S.R. Corsi, S.A. Mason, P.C. Reneau, and J.W. Scott. 2019. Vertical Distribution of Microplastics in the Water Column and Surficial Sediment from the Milwaukee River Basin to Lake Michigan. *Environmental Science & Technology*, 53: 12227-12237.
- Lestari, P., Y. Trihadiningrum, M. Firdaus, and I.D.A.A. Warmadewanthi. 2021. Microplastic pollution in Surabaya River, Water, and Aquatic Biota, Indonesia. *IOP Conf. Series: Materials Science and Engineering*, 1-9.
- Lin, L., L. Ma, X. Li, Y. Pan, S. Liu, L. Zhang, J. Peng, L. Fok, X. Xu, and W. He. 2020. Low level of microplastic contamination in wild fish from an urban estuary. *Marine Pollution Bulletin*, 160: 1-9.
- Lithner, D., A. Larsson, and G. Dave. 2011. Environmental and health hazard ranking and assessment of plastic polymers based on chemical composition. *Science of the Total Environment*, 409: 3309-3324.
- Liu, S., J. Shi, J. Wang, Y. Dai, H. Li, J. Li, X. Liu, X. Chen, Z. Wang and P. Zhang. 2021. Interaction Between Microplastics and Heavy Metals in Aquatic Environments: A Review. *Frontiers in Microbiology*, 12.

- Lusher, A.L., P.C.H. Hollman and J.J. Mendoza-Hill. 2017. *Microplastics in fisheries and aquaculture: status of knowledge on their occurrence and implications for aquatic organisms and food safety*. FAO Fisheries and Aquaculture Technical Paper. Roma.
- Makhdoumi, P., H. Hossini, Z. Nazmara, K. Mansouri, and M. Pirsaeheb. 2021. Occurrence and exposure analysis of microplastic in the gut and muscle tissue of riverine fish in Kermanshah province of Iran. *Marine Pollution Bulletin*, 173: 1-11.
- McNeish, R.E., L.H. Kim, H.A. Barrett, S.A. Mason, J.J. Kelly, and T.J. Hoellein. 2018. Microplastic in riverine fish is connected to species traits. *Scientific Reports*, 8: 1-12.
- Mizraji, R., C. Ahrendt, D. Perez-Venegas, J. Vargas, J. Pulgar, M. Aldana, F.P. Ojeda, C. Duarte, and C. Galban-Malagon. 2017. Is the feeding type related with the content of microplastics in intertidal fish gut?. *Marine Pollution Bulletin*, 116: 1-3.
- Melati, A., E. Sulistyawati dan I. Nugraheni. 2017. Pengolahan Limbah Air Sungai Gajah Wong Yogyakarta Berbasis Masyarakat Menggunakan Aplikasi Teknologi Nano Carbon Dari Bathok Kelapa Terintegrasi Lahan Basah Buatan. *Jurnal Bakti Saintek*, 1(2): 47-54.
- Nagai, N., H. Okada and T. Hasegawa. 2019. Morphology-sensitive infrared absorption bands of polymers derived from surface polaritons. *AIP Advances*, 9(2019): 1-12.
- Naqash, N., S. Prakash, D. Kapoor, and R. Singh. 2020. Interaction of freshwater microplastics with biota and heavy metals: a review. *Environmental Chemistry Letters*, 18: 1813-1824.
- NCD Risk Factor Collaboration (NCD-RisC). 2020. Height and body-mass index trajectories of school-aged children and adolescents from 1985 to 2019 in 200 countries and territories: A pooled analysis of 2181 population-based studies with 65 million participants. *Lancet*, 396, 1511-1524.
- Nugrahaningrum, A., M.F. Harianja, H. Nugroho, and R.C.H. Soesilohadi. 2017. Macroinvertebrate diversity role in water quality assessment of Winongo and Gajah Wong rivers, Yogyakarta, Indonesia. *Bonorowo Wetlands*, 7(1): 31-37.
- Osorio, E.D., M.A.N. Tanchuling, and B.L.D. Diola. 2021. Microplastics Occurrence in Surface Waters and Sediments in Five River Mouths of Manila Bay. *Frontiers in Environmental Science*, 9: 1-14.
- Park, T.J., S.H. Lee, M.S. Lee, J.K. Lee, J.H. Park, and K.D. Zoh. 2020. Distribution of Microplastics in Surface Water, Fish, and Sediment in the Vicinity of a Sewage Treatment Plant. *Water*, 12: 1-14.
- Purwiyanto, A., Y. Suteja, Trisno, P. Ningrum, W. Putri, Rozirwan, F. Agustriani, Fauziyah, M. Cordova, and A. Koropitan. 2020. Concentration and adsorption of Pb and Cu in microplastics: case study in aquatic environment. *Marine Pollution Bulletin*, 158: 11380.



- Rahmawati, Y. dan T.H.W. Handayani. 2020. Pengembangan Rasbora Popiah dari Ikan Wader sebagai Hidangan Pembuka untuk Mendukung Program Gemarikan. *Jurnal Universitas Negeri Yogyakarta*, 1-5.
- Rahmayanti, R., B.K. Adji, and A.P. Nugroho. 2022. Microplastic Pollution in the Inlet and Outlet Networks of Rawa Jombor Reservoir: Accumulation in Aquatic Fauna, Interactions with Heavy Metals, and Health Risk Assessment. *Environment and Natural Resources Journal*, 20(2): 192-208.
- Ranjani, M., S. Veerasingam, R. Venkatachalapathy, M. Mugilarasan, A. Bagaev, V. Mukhanov, and P. Vethamony. 2021. Assessment of potential ecological risk of microplastics in the coastal sediments of India: A meta-analysis. *Marine Pollution Bulletin*, 163: 1-12.
- Rebelein, A., I. Int-Veen, U. Kammann, J.P. Scharsack. 2021. Microplastic fibers- Underestimated threat to aquatic organisms. *Science of the Total Environment*, 777: 1-16.
- Rijal, M.S., N. Annisa dan I. Firda. 2021. *Kontaminasi Mikroplastik (MPs) pada Ikan di Indonesia*. Prosiding Semnas Biologi ke-9. Universitas Negeri Semarang, 55.
- Salam, M.A., S.C. Paul, R. Adawiyah, M. Zain, S. Bhowmik, M.R. Nath, S.A. Siddiqua, T.D. Aka, M.A. Iqbal, W.R. Kadir, R.B. Ahamad, Md.A. Khaleque, A.E. Rak, and M.F.M. Amin. 2020. Trace metals contamination potential and health risk assessment of commonly consumed fish of Perak River, Malaysia. *PLoS ONE*, 15(10): 1-18.
- Satarug, S., G.C. Gobe, D.A. Vesey, and K.R. Phelps. 2020. Cadmium and Lead Exposure, Nephrotoxicity, and Morality. *Toxics*, 8(86): 1-41.
- Sholikhati, I., T.R. Soeprbowati dan Jumari. 2020. Vegetasi Riparian Kawasan Sub-DAS Sungai Gajah Wong Yogyakarta. *Jurnal Ilmu Lingkungan*, 18(2): 402-405.
- Singh, A., A. Sharma, R.K. Verma, R.L. Chopade, P.P. Pandit, V. Nagar, V. Aseri, S.K. Choudhary, G. Awasthi, K.K. Awasthi, and M.S. Sankhla. 2022. Heavy Metal Contamination of Water and Their Toxic Effect on Living Organisms. *The Toxicity of Environmental Pollutants*, 1-19.
- Situmorang, T.S., T.A. Barus, and H. Wahyuningsih. 2013. Studi Komparasi Jenis Makanan Ikan Keperas (*Puntius binotatus*) di Sungai Aek Pahu Tombak, Aek Pahu Hutamosu dan Sungai Parbotikan Kecamatan Batang Toru Tapanuli Selatan. *Jurnal Perikanan dan Kelautan*, 1-11.
- Su, L., H. Deng, B. Li, Q. Chen, V. Pettigrove, C. Wu, and H. Shi. 2019. The occurrence of microplastic in specific organs in commercially caught fishes from coast and estuary area of east China. *Journal of Hazardous Materials*, 365: 716-724.
- Sulistyo, E.N., S. Rahmawati, R.A. Putri, N. Arya, Y.A. Eryan. 2020. Identification of the Existence and Type of Microplastic in Code River Fish, Special Region of Yogyakarta. *Journal of Sciences and Data Analysis*, 1(1): 85-91.

- Sulistyowati, L., Nurhasanah, E. Riani, and M.R. Cordova. 2022. The occurrence and abundance of microplastics in surface water of the midstream and downstream of the Cisadane River, Indonesia. *Chemosphere*, 291(2022): 1-9.
- Tchounwou, P.B., C.G. Yedjou, A.K. Patlolla, and D.J. Sutton. 2012. Heavy Metals Toxicity and the Environment. *National Institute of Health*, 101: 133-164.
- Temesgen, M., A. Getahun, B. Lemma, and G.P.J. Janssens. 2022. Food and Feeding Biology of Nile Tilapia (*Oreochromis niloticus*) in Lake Langeno, Ethiopia. *Sustainability*, 14: 1-17.
- Tibbetts, J., S. Krause, I. Lynch, and G.H.S. Smith. 2018. Abundance, Distribution, and Drivers of Microplastic Contamination in Urban River Environments. *Water*, 10: 1-15.
- Tisnawati, E. dan D. Ratriningsih. 2017. Pengembangan Konsep Pariwisata Sungai Berbasis Masyarakat, Studi Kasus: Kawasan Bantaran Sungai Gajahwong Yogyakarta. *Jurnal Arsitektur Komposisi*, 11(5): 189-200.
- Utami, I., Pidiyanto, F.H. Tricahya, and S. Rahmawati. 2021. Initial investigation of microplastic pollution in river sediments at Yogyakarta City Indonesia. *Journal of Environment and Sustainability*, 5(3): 155-165.
- Vermaire, J.C., C. Pomeroy, S.M. Herczegh, O. Haggart, and M. Murphy. 2017. Microplastic abundance and distribution in the open water and sediment of the Ottawa River, Canada, and its tributaries. *Facets*, 2: 301-314.
- Vriend, P., H. Hidayat, J. van Leeuwen, M.R. Cordova, N.P. Purba, A.J. Löhr, I. Faizal, N.S. Ningsih, K. Agustina, S. Husrin, D.D. Suryono, I. Hantoro, B. Widianarko, P. Lestari, B. Vermeulen and T. van Emmerik. 2021. Plastic Pollution Research in Indonesia: State of Science and Future Research Directions to Reduce Impacts. *Frontiers in Environmental Science*, 9: 1-10.
- Wang, W., A.W. Ndungu, Z. Li, and J. Wang. 2017. Microplastics pollution in inland freshwaters of China: A case study in urban surface waters of Wuhan, China. *Science of the Total Environment*, 575: 1369-1374.
- Watkins, L., S. McGrattan, P.J. Sullivan, and M.T. Walter. 2019. The effect of dams on river transport of microplastic pollution. *Science of the Total Environment*, 664: 834-840.
- Wea, S.A. 2018. Validasi metode analisis dan penetapan kadar kadmium (Cd) dalam air Sungai Gajah Wong Yogyakarta dengan Metode Spektrofotometri Serapan Atom. *Skripsi*, Universitas Sanata Dharma. Yogyakarta.
- WHO. 2019a. Exposure to Cadmium: A Major Public Health Concern 2<sup>nd</sup> edition. *Preventing Disease Through Healthy Environments*. World Health Organization, Geneva, Switzerland.
- WHO. 2019b. Exposure to Lead: A Major Public Health Concern. *Preventing Disease Through Healthy Environments*. World Health Organization, Geneva, Switzerland.

- Widagda, B.L., F. Nurrochmad, dan B. Kamulyan. 2020. Pengaruh Limbah Rumah Tangga Terhadap Kualitas Air Sungai Gajahwong, Code, dan Winongo di Yogyakarta. *Prosiding Seminar Nasional Teknik Lingkungan Kebumihan Ke-II*, 241-251.
- Wootton, N., M. Ferreira, P. Reis-Santos, and B.M. Gillanders. 2021. A Comparison of Microplastic in Fish from Australia and Fiji. *Frontiers in Marine Science*, 8: 1-9.
- Wu, C., K. Zhang, and X. Xiong. 2018. Microplastic Pollution in Inland Waters Focusing on Asia. *Freshwater Microplastics*, 58: 85-108.
- Xu, P., G. Peng, L. Su, Y. Gao, L. Gao, and D. Li. 2018. Microplastic risk assessment in surface waters: A case study in the Changjiang Estuary, China. *Marine Pollution Bulletin*, 133: 647-654.
- Yudhantari, C.I.A.S., I.G. Hendrawan dan N.L.P.R. Puspitha. 2019. Kandungan Mikroplastik pada Saluran Pencernaan Ikan Lemuru Protolan (*Sardinella Lemuru*) Hasil Tangkapan di Selat Bali. *Journal of Marine Research and Technology*, 2(2): 47-51.
- Zaman, M.N., Komariah, and Sunarto. 2021. Biological water quality of Gajah Wong River, Yogyakarta City, Indonesia. *IOP Conf. Series: Earth and Environmental Science*, 824: 1-8.
- Zubaidah, A., A. Rofi, A. Aditama, D. Prasetyo, dan Hariyadi. 2021. Pengaruh Rasio Pejantan yang Berbeda terhadap Kinerja Reproduksi Ikan Wader Cakul (*Barbodes binotatus*). *Limnotek Perairan Darat Tropis di Indonesia*, 28(1): 29-37.