

DAFTAR PUSTAKA

- Achmad, R., 2004, *Kimia Lingkungan*, Andi Offset, Yogyakarta.
- Ali, H., Khan, E., dan Ilahi, I., 2019, Environmental Chemistry and Ecotoxicology of Hazardous Heavy Metals: Environmental Persistence, Toxicity, and Bioaccumulation, *Journal of Chemistry*, 19, 1-14.
- Amriani, Hendarto, B. dan Hadiyanto, A., 2011, Bioakumulasi Logam Berat Timbal (Pb) dan Seng (Zn) pada Kerang Darah (*Anadara granosa* L.) dan kerang Bakau (*Polymesoda bengalensis* L.) di Perairan Teluk Kendari, *Jurnal Ilmu Lingkungan*, 9(2), 45-50.
- Anggraini, D., 2007, Analisis Kadar Logam Berat Pb, Cd, Cu, dan Zn pada Air Laut, Sedimen, dan Lokan (Geloina Coaxans) di Perairan Pesisir Dumai, *Skripsi*, Ilmu Kelautan FAPERIKA UNRI, Pekanbaru.
- Anna, S., 1999, Analisis Beban Pencemaran dan kapasitas Asimilasi Teluk Jakarta, *Thesis*, Graduate School of Bogor Agricultural University, Bogor.
- Anwar, Y., 2008, *Isolasi dan Karakterisasi Fragmen cDNA dari Gen Penyandi Metallothionein Tipe 2 dari Kedelai Kultivar Slamet*, Sekolah Pascasarjana, Institut Pertanian Bogor.
- Arifin, Z., 2008, Beberapa Unsur Mineral Esensial Mikro dalam Sistem Biologi dan Metode Analisisnya, *Jurnal Litbang Pertanian*, 27(3), 99-105.
- Azhar, H., I., Widowati, dan Suprijanto, J., 2012, Studi Kandungan Logam Berat Pb, Cu, Cr, Cd Pada Kerang Simping (*Amusium pleuronectes*), Air dan Sedimen di Perairan Wedung Demak serta Analisis Maximum Tolerable Intake pada Manusia, *Journal of Marine Research*, 2(2), 35-44.
- Bamuwanye, M., Ogwok, P., dan Tumuhairwe, V., 2015, Cancer and non-cancer risks associated with heavy metal exposures from street foods: evaluation of roasted meats in an urban setting, *J. Environ. Pollut. Hum. Health*, 3, 24–30.
- Barik, F., Afiati, N., dan Widyorini, N., 2014, Kajian Kandungan Natrium (Na) dan Logam Berat Timbal (Pb) pada jaringan Lunak Kerang Darah (*Anadara granosa* (L.)) dari Perairan Tanjung Emas Semarang dan Perairan Wedung Demak, *Diponegoro Journal of Maquares*, 3(1), 151-159.
- BPLHD, 2006, *Laporan Lingkungan Jakarta 1999-2004 (Teluk Jakarta)*, BPLHD, DKI Jakarta.
- BPOM, 2018, *Peraturan Badan Pengawas Obat dan Makanan Nomor 5 Tahun 2018 Tentang Batas Maksimum Cemaran Logam Berat Dalam Pangan Olahan*, Jakarta.

- Boss, C.B., dan Fredeen, K.J., 2004, *Concepts, Instrumentation and Techniques in Inductively Coupled Plasma Optical Emission Spectrometry*, Perkin Elmer, USA.
- Budiati, T., 2010, The Presence of Arsenic as Heavy Metal Contaminant on Salmon : a Risk Assessment,.
- Carvan, M.J., Heiden, T.K., dan Tomasiewicz, H., 2005, The utility of zebrafish as a model for toxicological research, *Biochemistry and Molecular Biology of Fishes*, 6, 3-41.
- Chamannejadian, A., Sayyad, G., Moezzi, A., dan Jahangiri, A., 2013, Evaluation of Estimated Daily Intake (EDI) of Cadmium and Lead for Rice (*Oryza sativa L.*) in Calcareous Soils, *Iranian J Environ Health*, 10(1), 1-5.
- Chien, L.C., Hung, T.C., Chaong, K.Y., Yeh, C.Y., Meng, P.J., dan Shieh, 2002, Daily intake of TBT, Cu, Zn, Cd, and As for fishermen in Taiwan, *Sci Total Environ*, 285, 177-185.
- Cubadda, F., Jackson, B.P., Cottingham, K.L., Horne, Y.O.V., dan Spencer, M.K., 2016, Human Exposure to Dietary Inorganic Arsenic and Other Arsenic Species: State of Knowledge, Gaps, and Uncertainties, *Science of the Total Environment*, 1-12.
- Davies, O.A., Allison, M.E., dan Uyi, H.S., 2006 Bioaccumulation of Heavy Metals in Water, Sediment, and Periwinkle (*Tympanotonus fuscatus var radula*) from Elechi Creek, Niger Delta, *African Journal of Biotechnology*, 5(10), 968-973.
- Effendi, I., 1997, *Biologi Perikanan*, Yayasan Pustaka Nusatama, Jakarta.
- Elisaba, F., Moturi, W.N., Mokua, M., dan Mwanyika, T., 2020, Human Health Risk Assessment of Trace Metals in the Commonly Consumed Fish Species in Nakuru Town, Kenya, *Environmental Health Insights*, 14, 1-8.
- Emawati, E., Aprianto, R., dan Musfiroh, I., 2015, Analisis Timbal dalam Kerang Hijau, Kerang Bulu, dan Sedimen di Teluk Jakarta, *IJPST*, 2(3), 105-111.
- EPA, 1989, *Guidance manual for assessing human health risks from chemically contaminated fish and shellfish DC EPA-503/8-89-002*, US Environmental Protection Agency, Washington.
- Fachrul, M.F., Haeruman, H., dan Anggraeni, A., 2006, *Distribusi Spatial Nitrat, Fosfat, dan Ratio N/P di Perairan Teluk Jakarta*, IATPI-ITB, Bandung.
- FAO/WHO, 2018, *Joint FAO/WHO Food Standards Programme Codex Committee on Contaminants in Foods 12th Session*, Codex Alimentarius Commission, Italia.

- FAO/WHO, 2019, *Joint FAO/WHO Food Standards Programme Codex Committee on Contaminants in Foods 42th Session*, Codex Alimentarius Commission, Italia.
- Food Safety Authority of Ireland, 2009, Mercury, Lead, Cadmium, Tin, and Arsenic in Food, *Toxicology Factsheet Series*, Irlandia.
- Gaol, N.N.L., 2017, Perbandingan Morfometri Kerang Bulu (*Anadara antiquata*) di Belawan dan Tanjung Pura Sumatera Utara, *Skripsi*, Fakultas Biologi, Universitas Medan Area, Medan.
- Guerra, F., Trevizam, A.R., Muraoka, T., Marcante, N.C., dan Canniatti-Brazaca, S.G., 2012, Heavy metals in vegetables and potential risk for human health, *Sci. Agric.*, 69, 54–60.
- Gupta, S.K. dan Singh, J., 2011, Evaluation of mollusc as sensitive indicator of heavy metal pollution in aquatic system: a Review, *The IIOAB Journal*, 2(1), 49-57.
- Handayani, D., 2020, Verifikasi Metode Penentuan Kadar Logam Arsen (As) dan Kadmium (Cd) Total pada Sumber IPAL Titik *Inlet* dan *Outlet* PT. Karsa Buana Lestari secara *Inductively Coupled Plasma-Optical Emission Spectroscopy* (ICP-OES), *skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Islam Indonesia.
- Haryati, S., Sanim, B., Riani, E., Ardianto, L., dan Sutrisno, D., 2013, Valuasi Ekonomi Dampak Pencemaran dan Analisis Kebijakan Pengendalian Pencemaran di Teluk Jakarta, *Globe*, 15(2), 185-190.
- Haryoto dan Wibowo, A., 2004, Kinetika Bioakumulasi Logam Berat Kadmium oleh Fitoplankton *Chlorella sp*, *Jurnal Penelitian Sains dan Teknologi*, 5(2), 89-103.
- Hough, L.R., Breward, N., Young, S.D., Crout, N.M.J., Tye, A.M., dan Moir, A.M., 2004, Assessing potential risk of heavy metal exposure from consumption of home-produced vegetables by urban populations, *Environ Health Perspect*, 112, 215–221.
- Huang, M., Zhou, S., Sun, B., dan Zhao, Q., 2008, Heavy metals in wheat grain: assessment of potential health risk for inhabitants in Kunshan, China, *Sci Total Environ*, 405, 54–61.
- Hutagalung, H.P., 1997, *Metode Analisis Air Laut Sedimen dan Biota*, Pusat Penelitian dan Pengembangan Oseanologi, Lembaga Ilmu Pengetahuan Indonesia, Jakarta.
- Ihedioha, J.N., Okoye, C.O.B., dan Onyechi, U.A., 2014, Health risk assessment of zinc, chromium and nickel from cow meat consumption in an urban Nigerian population, *International Journal of Occupational and Environmental Health*, 20, 281-288.

- Ilham, M., 2019, Analisis Logam As, Cd, Cu, Hg, Pb, Se, dan Tingkat Keamanan Pangan pada Kerang Konsumsi Perairan Pulau Lancang, Kepulauan Seribu DKI Jakarta, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Istarani, F. dan Pandebesie, E.S., 2014, Studi Dampak Arsen (As) dan Kadmium (Cd) terhadap Penurunan Kualitas Lingkungan, *Jurnal Teknik Pomits*, 3(1), 53-58.
- Iwegbue, C.M.A., Nwozo, S.O., Overah, C.L., Bassey, F.I., dan Nwajei, G.E., 2013, Concentrations of selected metals in some ready-to-eat-foods consumed in southern nigeria: Estimation of dietary intakes and target hazard quotients, *Turkish Journal Agriculture - Food Science and Technology*, 1, 1-7.
- Jalaludin, M.N dan Ambeng, 2005, Analisis Logam Berat (Pb, Cd, dan Cr) pada kerang laut (*Hiatula chinensis*, *Anadara granosa*, dan *Marcia optima*), *Jurnal Jurusan Kimia FMIPA Unhas*, 6(2), 17-18.
- Javed, M. dan Usmani, N., 2016, Accumulation of heavy metals and human health risk assessment via the consumption of freshwater fish *Mastacembelus armatus* inhabiting, thermal power plant effluent loaded canal, *SpringerPlus*, 5(1), 1-8.
- Jayanti, R.Y.D., 2014, Konsep pengembangan Wilayah Pulau-Pulau Kecil (Studi Kasus: Kabupaten Kepulauan Seribu), *Tugas Akhir*, Program Studi Perencanaan Wilayah dan Kota, Fakultas Arsitektur Lansekap dan Teknologi Lingkungan, Universitas Trisakti, Jakarta.
- Kautsar, D.A., 2017, Bioakumulasi Logam Berat Merkuri (Hg) pada Lamun Jenis *Enhalus acoroides* di Pulau Pari, Kepulauan Seribu, *Skripsi*, Departemen Ilmu dan Teknologi Kelautan, Fakultas Perikanan dan Ilmu Kelautan, Institut Pertanian Bogor, Bogor.
- Kementrian Lingkungan Hidup, 2013, *Deskripsi Peta Ekoregion Laut Indonesia*, Kementrian Lingkungan Hidup, Deputi Tata Lingkungan, Jakarta.
- Khoshnood, R., Jaafarzadeh, N., Khoshnood, Z., Ahmadi, M., dan Teymouri, P., 2014, Estimation of Target Hazard Quotients for Metals by Consumption of Fish in the North Coast of the Persian Gulf, Iran, *Journal of Advances in Environmental Health Research*, 2(4), 263-272.
- Langston, W.J. dan Bebianno, M.J., 1998, *Metal Metabolism in Aquatic Environments*, Chapman & Hall, London.
- Lu, F., 1995, *Toksikologi Dasar*, Penerbit Universitas Indonesia, Jakarta.
- Metian, M., Hedouin, L., Barbot, Q., Teyssie, J.L., Fowler, S.W., dan Goudard, F., 2005, Use of radiotracer techniques to study subcellular distribution of metals

- and radionuclides in bivalves from the Noumea Lagoon, New Caledonia, *Bulletin of Environmental Contamination and Toxicology*, 75, 89–93.
- Mostafa, A.R., Al-Alimi, A.K., dan Barakat, A.O., 2009, Metals in surface sediments and marine bivalves of the Hadhramout coastal area, Gulf of Aden, Yamen, *Marine Pollution Bulletin*, 58(2), 308-311.
- Mulyaningsih, T.R., 2009, Kandungan Unsur Fe dan Zn dalam Bahan Pangan Produk Pertanian, Pertenakan, dan Perikanan dengan Metode k₀-AANI, *Jurnal Sains dan Teknologi Nuklir Indonesia*, 10(2), 71-80.
- Naughton, D.P., dan Petroczi, A., 2008, Heavy metal ions in wines: meta-analysis of target hazard quotient reveals health risk, *Central Journal*, 2-22.
- Naughton, D.P., dan Petroczi, A., 2008, The metal ion theory of ageing: dietary target hazard quotients beyond radicals, *Immunity Ageing*, 5(3), 1-5.
- Nurhayati, 2009, Analisis Kadar Arsen (As) pada Kerang Bivalvia yang Berasal dari Laut Belawan, *Skripsi*, Fakultas Kesehatan Masyarakat, Universitas Sumatra Utara, Medan.
- Ochiai, K., Kimura, T., dan Uematsu, K., 1999, Lead Poisoning in Wild Waterfowl in Japan, *Japanese wildlife medicine*, 35.
- Palar, H., 1994, *Pencemaran dan Toksikologi Logam Berat*, Rineka Cipta, Jakarta.
- Paul-Pont, I., Baudrimont, M., Gonzalez, P., dan de Montaudouin, X., 2008, Seasonal Modulated MT Synthesis In The Cockle (*Cerastoderma edule*) After Parasite and Cadmium Contamination, *Marine Pollution: New Research*, 161-220.
- Phuong, T.T.M., Marmier, N., Hurel, C., dan Phung, N.Ky., 2012, Bioaccumulation and Concentrations of Heavy Metal in the Different Mollusks Collected from Khanh Hoa Coastal, Vietnam, *Journal of Science and Technology*,
- Pratama, A., Lestari, F., dan Kurniawan, D., 2018, *Pola Pemanfaatan Kerang Bulu (Anadara antiquata) di Perairan Kawal Kabupaten Bintan*, Program Studi Managemen Sumberdaya Perairan, Fakultas Ilmu Kelautan dan Perikanan, Universitas Maritim Raja Ali Haji.
- Prasetyorini dan Wardatun, S., 2011, Analisis Kandungan Timbal, Tembaga, dan Arsen pada Daun Kangkung (*Ipomoea aquatica*) yang Dijual di Tempat yang Berbeda dengan Metode Spektrofotometri Serapan Atom, *Ekologia*, 11(2), 31-35.
- Prihatini, W., 2013, Ekobiologi Kerang Bulu Anadara Antiquata di Perairan Tercemar Logam Berat, *Jurnal Teknologi Pengelolaan Limbah*, 16(3), 1-10.

- Purnomo, D.L., 2018, Studi kandungan Logam Berat Cd, Pb, dan hg pada Kerang Kepah (*Meretrix meretrix*) dan Kerang Bulu (*Anadara antiquata*) di Perairan Pantai Paiton, Probolinggo serta Analisis *Maximum Tolerable Intake* pada Manusia, *Skripsi*, Fakultas Perikanan dan Ilmu Kelautan, Universitas Brawijaya, Malang.
- Rahadian, A. dan Riani, E., 2018, Pencemaran Cd pada Ekosistem Perairan Tawar dan Mekanisme Gangguannya pada Hewan Air: Sebuah Tinjauan, 1-10.
- Rahayu, R.N., Irawan, B., dan Soegianto, A., 2016, Concentration of Mercury in Cockles (*Anadara granosa* and *A. antiquata*) Harvested from Estuaries of Western Lombok, Indonesia, and Potential Risks to Human Health, *Bull Environ Contam Toxicol*, 96(1), 20-24.
- Rayyan, M.F., Yona, D., dan Sari, S.H.J., 2019, Health Risk Assessments of Heavy Metals of *Perna Viridis* from Banyuurip Waters in Ujung Pangkah, Gresik, *Journal of Fisheries and Marine Research*, 3(2), 135-143.
- Riget, F.P., Johansen, dan Asmund, G., 1996, Influence of Length on Element Concentrations in Blue Mussels (*Mytilus edulis*), *Marine Pollution Bulletin*, 32(10).
- Rittschof, D. dan McClellan-Green, P., 2005, Molluscs as multidisciplinary models in environment toxicology, *Marine Pollution Bulletin*, 50(4), 369–373.
- Rochyatun, E. dan Rozak, A., 2007, Pemantauan Kadar Logam Berat dalam Sedimen di Perairan Teluk Jakarta, *Makara Sains*, 11(1), 28-36.
- Sachoemar, S.I. dan Wahjono, H.D., 2007, Kondisi Pencemaran Lingkungan Perairan di Teluk Jakarta, *JAI*, 3(1), 1-14.
- Sari, C.A., 2018, Analisis Kadar Arsen (As) pada kerang (*Bivalvia*) yang Berasal dari Perairan Teluk Nibung Tanjung Balai Tahun 2017, *Skripsi*, Fakultas Kesehatan Masyarakat, Universitas Sumatera Utara, Medan.
- Satrioajie, W.N., 2012, Potensi dan Aspek Biologi Kerang Bulu *Anadara pilula* (Reeve, 1843) di Sekitar Perairan Pantai Kota Tegal, *Oseanologi dan Limnologi di Indonesia*, 38 (2), 189-202.
- Shi, W., Zhao, X., Han, Y., Che, Z., Chai, X., dan Liu, G., 2016, Ocean Acidification Increases Cadmium Accumulation in Marine Bivalves: A Potential Threat to Seafood Safety, *Scientific Reports*, 1-8.
- Shen, S., Li, X.F., Cullen, W.R., Weinfeld, M., dan Le, X.C., 2013, Arsenic Binding Proteins, *Chem Rev*, 113.

- Shue, M.F., Chen, W.D., Su, C.C., dan Lu, M.C., 2014, Heavy Metals in Bivalve Mollusks Collected from Da-Peng Bay Lagoon in South-Southwestern Taiwan, *Journal of Toxicology and Environmental Health*, 77, 214-222.
- Sridhara, C.N., Kamala, C.T., dan Samuel-Suman, R.D., 2008, Assessing risk of heavy metals from consuming food grown on sewage irrigated soils and food chain transfer. *Ecotoxicol Environ Saf.*, 69, 513–524.
- Supraptini, 2002, Pengaruh Limbah Industri terhadap Lingkungan di Indonesia, *Media Litbang Kesehatan*, 12(2), 10-19.
- Susanty, S.C., 2014, Kandungan Logam Berat (Pb, Cd, dan Hg) pada Kerang Bulu (*Anadara antiquata*) di Perairan kronjo dan Cituis, Kabupaten Tangerang, *Skripsi*, Fakultas Perikanan dan Ilmu Kelautan, Institut Pertanian Bogor, Bogor.
- Suseno, H., 2011, Bioakumulasi Merkuri dan Metil Merkuri oleh *Oreochromis mossambicus* Menggunakan Aplikasi Perunut Radioaktif: Pengaruh Konsentrasi, Salinitas, Partikulat, Ukuran Ikan, dan Kontribusi Jalur Pakan, *disertasi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Indonesia.
- Suwignyo, 2002, *Avertebrata Air*, Penebar Swadaya, Bogor.
- Taylor, V., Goodale, B., Raab, A., Schwerdtle, T., Reimer, K., Conklin, S., et al., 2017, Human exposure to organic arsenic species from seafood, *Sci. Total Environ.*, 580, 266–282.
- Uche, A.O., Sikoki, F.D., Babatunde, B.B., Konya, R.S., dan Ifeh, M.O., 2017, Assessing Carcinogenic and Other Health Risks Associated with Consuming a Food Fish, *Labeo pseudicoubie*, from the Niger-Benue/Imo River Systems, Nigeria, *Journal of Fishers and Livestock Production*, 5(1), 1-8.
- USEPA, 2000, *Risk-based concentration table*, United States Environmental Protection Agency, Washington DC.
- USEPA, 2005, *Guidelines for Carcinogen Risk Assessment*, Risk Assessment Forum, U.S. Environmental Protection Agency, Washington DC.
- Wahyuningsih, T., Rumanta, M., dan Nurdin, G., 2015, Pencemaran Pb dan Cd pada Hasil Perikanan Laut Tangkapan Nelayan di Sekitar Teluk Jakarta, *Seminar Nasional Konservasi dan Pemanfaatan Sumber Daya Alam*, 105-111.
- Wang, X., Sato, T., Xing, B., dan Tao, S., 200, Health risks of heavy metals to the general public in Tianjin, China via consumption of vegetables and fish, *Sci Total Environ*, 350, 28-37.
- WHO, 1998, Environmental Health Criteria 200: *Copper*, *International Programme on Chemical Safety*, World Health Organization, Geneva.

- Widaningrum, Miskiyah, dan Suismono, 2007, Bahaya Kontaminasi Logam Berat dalam Sayuran dan Alternatif Pencegahan Cemarannya, *Buletin Teknologi Pascapanen Pertanian*. 3.
- Widowati, W., 2008, *Efek Toksik Logam: Pencegahan dan Penanggulangan Pencemaran*, Penerbit Andi, Yogyakarta.
- Yudo, S., 2007, Kondisi Pencemaran Perairan Teluk Jakarta, *J. Hidrosfir*, 2(3), 115-124.
- Zelditch, M.L., Swiderski, D.L., Swiderski, Sheets, H.D., dan Fink, W.L., 2004, *Geometric Morphometrics for Biologist: A Primer*, Elsevier Academic Press, United Kingdom.
- Zhuang, P., McBride, M.B., Xia, H., Li, N., dan Li, Z., 2009, Health risk from heavy metals via consumption of food crops in the vicinity of Dabaoshan mine, South China, *Sci Total Environ*, 407, 1551–1561.