

DAFTAR PUSTAKA

- Anggraeny, Y.A., 2010, Analisis Kandungan Logam Berat Pb, Cd, dan Hg Pada Kerang Darah (*Anadara granosa*) di Perairan Bojonegara, Kecamatan Bojonegara, Kabupaten Serang, *Skripsi*, Program Studi Manajemen Budidaya Perairan Fakultas Perikanan dan Ilmu Kelautan Institut Pertanian Bogor, Bogor.
- Azad, A.M., Frantzen, S., Bank, M.S., Nilsen, B.M., Duinker, A., Madsen, L., and Maage, A., 2019, Effects of Geography and Species Variation on Selenium and Mercury Molar Ratios in Northeast Atlantic Marine Fish Communities, *Sci. Tot. Environ.*, 652, 1482–1496.
- Azevedo, J.S., Hortellani, M.A., and Sarkis, J.E.S., 2012, Accumulation and Distribution Metals In Tissues of Two Catfish Species From Cananea and Santos-Sao Vicente Estuaries, *Braz. J. Ocean.*, 60(4), 463-472.
- Buchet, J.P., Lison, D., Ruggeri, M., Foa, V., and Elia, G., 1996, Assessment of exposure to inorganic arsenic a human carcinogen due to the consumption of seafood, *Arch. Toxicol.*, 70, 773-778.
- BPOM, 2018, *Batas Maksimum Cemaran Logam Dalam Pangan Olahan*, Badan Pengawas Obat dan Makanan Republik Indonesia, Jakarta.
- Cahyani, N., Batu, D.T.L.F., dan Sulistiono, 2016, Kandungan Logam Berat Pb, Hg, Cd, dan Cu Pada Daging Ikan Rejung (*Sillago sihama*) di Estuari Sungai Donan, Cilacap, Jawa Tengah, *J. PHPI.*, 3(19), 267-276.
- Chouvelon, T., Warnau, M., Churlaud, C., and Bustamante, P., 2009, Hg Concentrations and Related Risk Assessment in Coral Reef Crustaceans, Molluscs and Fish From New Caledonia, *Environ. Pollut.*, 157, 331–340.
- Copat, C., Arena, G., Fiore, M., Ledda, C., Fallico, R., Sciacca, S., and Ferrante, M., 2013, Heavy Metals Concentrations in Fish and Shell Fish From Eastern Mediterranean Sea: Consumption Advisories, *Food Chem. Tox.*, 53, 33–37.
- Dallinger, R., 1995), Metabolism and Toxicity of Metals: Metallothioneins and Metal elimination, *J. Cell Bio. Env. Toxic.*, 171-190.
- Daviglus, M., Sheeska, J., dan Murkin, E., 2002, Health Benefits From Eating Fish, *Com. Toxic.*, 8, 345-378.
- Drevnick, P.E., Barst, B.D., Hammerschmidt, C.R., Chumcal, M.M., Muir, D.C., Smith, J.D., Roberts, A.P., and Rainwater, T.R., 2013, Determination of Mercury Speciation in Fish Tissue With A Direct Mercury Analyzer, *Env. Tox. And Chem.*, 6(32), 1237-1241.

- Etherton, P.M., Harris, W.S., and Appel, L.J., 2002, Fish Consumption, Fish Oil, Omega-3 Fatty Acids, and Cardiovascular Disease, *Circulation*, 106 (21), 2747–2757.
- Edmonds, J. S., and Francesconi, K. A., 1993, Arsenic in Seafoods: Human Health Aspects and Regulations, *Mar. Pollut. Bull.*, 26 (12), 665–674.
- El-Nemr, A., Khaled, A. dan El-Sikaily, A., 2006, Distribution and Statistical Analysis of Leachable and Total Heavy Metals in The Sediments of The Suez Gulf, *Environ. Monit. Assessm.*, 118 (1-3), 89-112.
- FAO/WHO, 2004, *Summary of Evaluations Performade by the Jint FAO/WHO Expert Committee of Food Additives (JECFA 1956-2003)*, ILSI Press, Washington.
- FAO/WHO, 2011, Working Document For Information And Use In Discussion Related To Contaminants And Toxins In The GSCTFF, *Joint FAO/WHO Food Standards Programme Codex Comitte On Contaminant In Foods 5th Session*, 21 - 25 Maret, Belanda.
- FSANZ, 2015, *Standards 1.4.1 Contaminants and Natural Toxicans*, Food Standards Australia New Zealand, Australia.
- Guerra, F., Trevizam, A.R., and Muraoka, T., 2012. Heavy metals in Vegetables and Potential Risk For Human Health, *J. Sci. Agric.*, 69(1), 54–60.
- Guo, W., Hu, S., & Peng, Y., 2008, High-Resolution Trace Element Profiles in Calcium Carbonate Shells using LA-ICP-MS: An Environmental Proxy and Biogeochemical Cycling?, *Second International Conference on Bioinformatics and Biomedical Engineering*, 16-18 Mei, China.
- Hajeb, P., Sloth, J.J., Shakibazadeh, S., Mahyudin, N.A., and Hejri, L.A., 2014, Toxic Elements in Food: Occurrence, Binding, and Reduction Approaches, *Comprehensive Reviews in Food Science and Food Safety*, 13, 457-472.
- Han, B.C., Jeng, W.L., Chen, R.Y., Fang, G.T., Hung, T.C., and Tseng, R.J., 1998, Estimation of Target Hazard Quotients and Potential Health Risks for Metals by Consumption of Seafood in Taiwan, *Arch. Environ. Contam. Toxicol.*, 35, 711–720.
- Herrman, J. L. and Younes, M., 1999, Background to the ADI/TDI/PTWI, *Reg. Toxic. and Pharm.*, 30, 109–113.
- Hutagalung, H.P., 1984, Logam Berat Dalam Lingkungan Laut, *Oseana*, 1 (9), 11-20.

- 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, *Springer Plus*, 5:776
- Jebali, J., Chouba, L., Banni, M., and Bousetta, H., 2014, Comparative Study of The Bioaccumulation and Elimination of Trace Metals (Cd, Pb, Zn, Mn and Fe) in The Digestive Gland, Gills and Muscle of Bivalve *Pinna nobilis* During A Field Transplant Experiment, *J. Trace Elem. in Med. and Bio.*, 28 , 212–217.
- Johnson, T.K.B., LePrevost, C.E., Kwak, T.J., and Cope, W.G., 2018, Selenium, Mercury, and Their Molar Ratio in Sportfish from Drinking Water Reservoirs, *Int. J. Environ. Res. Public Health*, 15, 1-17.
- Jumas, D.P., 2017, Penentuan Total Merkuri dan Merkuri organik menggunakan Metode Mikroekstraksi Cair-cair, Terdispersi dan Mercury Analyzer, *Skripsi*, Program Studi Kimia Fakultas Matematika dan Ilmu pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.
- Kagi, J.H.R., Vařák, M., Lerch, K., Gilg, D.E.O., Hunziker, P., Bernhard, W.R., and Good, M., 1984, Structure of Mammalian Metallothionein, *Env. Heal. Pers.*, 54, 93-103.
- Kaneko, J.J. and Ralston, N. V. C., 2007, Selenium and Mercury in Pelagic Fish in the Central North Pacific Near Hawaii, *Bio. Trace. Elem. Res.*, 119 (3), 242–254.
- Kimura, I., 1988, Aquatic Pollution Problems in Japan, *Aqua. Toxic.*, 11, 287-301.
- Kiran, S.S., 2017, A Review on Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) with a Special Emphasis on its Applications, *Der Pharm. Let.*, 9 (10), 44-54.
- Kusuma, H.A., Prartono, T., Atmadipoera, A.S., dan Arifin, T., 2014, Sebaran Logam Berat Terlarut Dan Terendapkan Di Perairan Teluk Jakarta Pada Bulan September 2014, *J. Tek. Perikanan dan Kelautan*, 6 (1), 41-49.
- Langston, W.J. dan Bebianno M.J., 1998, *Metal Metabolism in Aquatic Environments*, Chapman & Hall, London.
- Li, Y., Yang, H., Liu, N., Luo, J., Wang, Q., and Wang, L., 2015, Cadmium Accumulation and Metallothionein Biosynthesis in Cadmium-Treated Freshwater Mussel *Anodonta woodiana*, *J. Pone*, 10 (2), 1-15.

- Liu, X., Song, Q., Tang, Y., Wanlu, L., Jianming, X., Wufang, J., and Brookes, P.C., 2013, Human Health Risk Assessment of Heavy Metals in Soil-Vegetablesystem: A Multi-Medium Analysis, *Sci. Tot. Env.*, 530-540.
- Leal-Soto, S., Barraza-Guardado, R., and Castro-Longoria, R., 2011, Cultivation of Pen Shells: An Example with *Atrina maura* in Northwestern Mexico, *J. Wor. Aqu. Soc.*, 6(42), 789-800.
- Mamtani, R., Stern, P., Dawood, I., and Cheema, S., 2011, Metals and Disease: A Global Primary Health Care Perspective, *J. of Toxicol.*, 1-11.
- Manahan, S. E., 2002, *Environmental Chemistry*. Seventh Edition, Lewis Publisher, New York.
- Mandelly, E., 1976, Manual of Methods in Aquatic Environment Research, *Fish. Tech. Paper*, 150, 27-37.
- Mauri, M., Oerlando, E., Nigro, M., and Regoli, F., 1990, Heavy Metals in the Antarctic Scallop *Adamussium colbecki*, *Mar. Ecol. Prog. Ser.*, 67, 27-33.
- Mok, S.J., Kwon, Y.J., Son, T.K., Choi, S.W., Kim, H.P., Lee, S.T., and Kim, H.J., 2015, Distribution of Heavy Metals in Internal Organs and Tissues of Korean Molluscan Shellfish and Potential Risk to Human Health, *J. Env. Bio.*, 5 (36), 1161-1167.
- de Mora, S., Fowler, S.W., Wyse, E. and Azemard, S., 2004, Distribution of Heavy Metals in Marine Bivalves, Fish and Coastal Sediments in the Gulf and Gulf of Oman, *Mar. Pollut. Bull.*, 49, 410-424.
- Mozaffarian, D., and Rimm, E.B., 2006, Fish Intake, Contaminants, and Human Health: Evaluating The Risks and The Benefits, *J. Am. Med. Assoc.*, 296, 1885–1899.
- MOHSAC, 2006, *Peoples Republic of FAIRS Product Specific Maximum Levels of Contaminants in Foods*, Ministry of Health and the Standardization Administration of China, China.
- Navas-Acien, A., Francesconi, K.A., Silbergeld, E.K. and Guallar, E., 2011, Seafood Intake and Urine Concentrations of Total Arsenic, Dimethylarsinate and Arsenobetaine in the US Population, *Environ. Res.*, 111, 110-118.
- Ningrum, E.W., Romandani, I., Gayatri, L., A'Yun, Z.Q., Ulfah, I.Y., dan Widarto, T.H., 2014, *Efektivitas Bivalvia Sebagai Bioremediator Polutan Perairan: Studi Kasus Waduk Situ Gede Bogor*, Institut Pertanian Bogor, Bogor.

- Nurachman, A., 2019, Validasi Metode dan Analisis Logam As, Cd, Cr, Cu, Mn, Ni, Se dan Zn Dalam Sedimen Sungai Citarum Menggunakan Inductively Coupled Plasma – Optical Emission Spectroscopy, Skripsi, Program Studi Kimia Fakultas matematika Dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.
- Ostrom, T., Williams, P., and Palcisko, G., 2007, Assessment of Trace Metals in Tissues of Geoduck Clams From Eastern Puget Sound, *Proceedings of the Georgia Basin Puget Sound Research Conference*, 26–29 March 2007, British Columbia, Canada.
- Pan, K., and Wang, W., 2011, Mercury Accumulation in Marine Bivalves: Influences of Biodynamics and Feeding Niche, *Environ. Pol.*, 159, 2500–2506.
- Paulay, G., 1987, Biology Of Cook Islands Bivalves Part I. Heterodont Families, *Ato. Res. Bull.*, 298, 1–31.
- Peerzada, N., Pakkiyaretnam, T., Skliros, S., Guinea, M., and Ryan, P., 1992, Distribution of heavy metals in Elcho Island Northern Territory Australia, *Sci. Tot. Env.*, 119, 19–27.
- Perrilliat, M.C., Ahmad, F., and Vega, F.J., 2006, Upper Cretaceous (Cenomanian–Turonian) Bivalves From Northern Jordan Middle East, *Revista Mexicana de Ciencias Geológicas*, 1(23), 2006, 96–106.
- Petroczi, A. dan Naughton, P.D., 2008, Heavy Metal Ions in Wines: Meta-analysis of Target Hazard Quotients Reveal Health Risks, *J.Chem.Cent.*, 2(22),
- Philips, D.J.H., 1980, *Proposal For Monitoring Studies on The Contamination of The East Asian Seas By Trace Metals and Organic Research*, FAO, Manila.
- Poutiers, J.M., 1998, *The living marine resources of the Western Central Pacific*, Volume 1, FAO, Roma.
- Purnadayanti, Z., 2017, Tingkat Keamanan Pangan Pada Kerang Konsumsi Yang Diambil Dari Perairan Kenjeran Surabaya Jawa Timur, *Skripsi*, Program Studi Ilmu Kelautan Fakultas Perikanan dan Kelautan Universitas Brawijaya, Malang.
- Ralston, N.V.C., Ralston, C.R., Blackwell, J.L., and Raymond, L.J., 2008, Dietary and Tissue Selenium in Relation to Methylmercury Toxicity, *Neurotoxic.*, 29 (5), 802–811.

- Ralston, N.V.C., Ralston, C.R., and Raymond, L.J., 2016, Selenium Health Benefit Values: Updated Criteria for Mercury Risk Assessments, *Bio. Tra. Elem. Res.*, 171, 262–269.
- Ralston, N.V.C. and Raymond L.J., 2018, Mercury's Neurotoxicity Is Characterized By Its Disruption Of Selenium Biochemistry, *J. BBA-gen. subj.* 1862, 2405-2416.
- Riani, E., Johari, H.S., dan Cordova, M.R., 2017, Bioakumulasi Logam Berat Kadmium Dan Timbal Pada Kerang Kapak-kapak Di Kepulauan Seribu, *J. PHPI.*, 1 (20), 131-142.
- Rubino, F.M., 2015, Toxicity of Glutathione-Binding Metals: A Review of Targets and Mechanisms, *Toxics*, 3, 20-62.
- Ruyitno, dan Kunarso, H.D., 1991, *Status Pencemaran Laut di Indonesia Dan Teknik Pemantauannya*, LIPI, Jakarta.
- Saavedra, Y., Gonzalez, A., and Blanco, J., 2008, Anatomical Distribution of Heavy Metals in The Scallop *Pecten maximus*, *Food Additives and Contaminants*, 1-19.
- Sachoemar, I.S., 2008, Karakteristik Lingkungan Perairan Kepulauan Seribu, *J. Anal. Ind.*, 2(4), 109-114.
- Satapathy, S., and Panda, C.R., 2017, Toxic Metal Ion in Seafood: Meta-analysis of Human Carcinogenic and Non-Carcinogenic Threat Assessment, A Geomedical Study From Dhamra and Puri, *Hum. Eco. Risk Asses.*, 4 (23), 864–878.
- Simkims, K., 1981, Cellular Discrimination Processes in Metal Accumulating Cells, *J. Exper. Bio.*, 94, 317-327.
- Shen, S., Li, X.F., Cullen, W.R., Weinfeld, M., and Le, X.C., Arsenic Binding Proteins, *Chem. Rev.*, 113, 7769-7792.
- SNI 7387, 2009, *Batas Maksimum Cemaran Logam Berat Dalam Pangan*, Badan Standarisasi Nasional, Jakarta.
- Stankovic, S. and Jovic, 2012, Health Risks of Heavy Metals in the Mediterranean Mussels as Seafood, *Environ. Chem. Lett.*, 10, 119–130.
- Suratno dan Puspitasari, R., 2018, Health Benefit Value Selenium (HBV-Se): A Food Safety Index From Mercury (Hg) Contamination in Marine Fish Consumption, *Proceedings of the 4th International Symposium on Applied Chemistry*, 1-2 November, Tangerang.

USEPA, 2000, Guidance For Assessing Chemical Contamination Data For Use in Fish Advisories Volume II Risk Assessment and Fish Consumption Limits, EPA/823-B94-004, United States.

Viarengo, A and Canesi, L., 1991, Mussels As Biological Indicators of Pollution, *Aquaculture*, 94, 225-243.

WHO, 1998, *Environmental Health Criteria 200: Copper*, International Programme on Chemical Safety, World Health Organization, Geneva.

WHO, 2007, *Exposure of Children to Chemical Hazard in Foods*, World Health Organization, Geneva.

Yabanli, M., Katalay, S., Yozukmaz, A., and Inanan, B.E., 2015, Comparative Study of Heavy Metals and Selenium Accumulation in the Digestive Gland and Gills of *Mytilus galloprovincialis* (Lamarck, 1819) caught in Izmir Bay (Turkey), *Turk. J. Biochem.*, 40(2), 140-148.

Zhang, Z., Juying, L., Mamat, Z. and Fu, Y.Q., 2016, Sources identification and pollution evaluation of heavy metals in the surface sediments of Bortala River, Northwest China, *Ecotoxic. and Environ. Safety*, 126, 94-101.

Zhu, Z.P., Tong, Y.P., Tang, W.Y., Wu, Z.X., and Wu, Z.B., 2017, Distribution of As, Cd, and Pb in Seafood in Southern China and Their Oral Bioavailability in Mice, *Environ. Sci. Pollut. Res.*, 24, 3572-3581.

Znidaric, M.T., Falnoga, I., Skreblin, M., and Turk, V., 2006, Induction of Metallothionein-like Proteins by Mercury and Distribution of Mercury and Selenium in the Cells of Hepatopancreas and Gill Tissues in Mussel *Mytilus galloprovincialis*, *Bio. Tra. Elm. Res.*, 111, 121-135.