

DAFTAR PUSTAKA

- Agustina, T.E., Nurisman, E. Prasetyowati, Haryani, N. 2011. *Pengolahan Air Limbah Pewarna Sintesis dengan Menggunakan Reagen Fenton*. Prosiding Seminar Nasional AvoER ke-3, Palembang.
- Ahner B. A., Price N.M., Morel F.M.M. 1994. Phytochelatin Production by Marine Phytoplankton at Low Free Metal Ion Concentrations: Laboratory Studies and Field Data from Massachusetts Bay. *Proc Natl Acad Sci USA* 91:8433– 8436
- Ahner, B.A., Kong, S., Morel, F.M.M. 1995. Phytochelatin Production in Marine Algae : An Interspecies Comparison. *Limnol. Ocenogr.* 40,649–657.
- Arinardi, O.H. 1997. *Status Pengetahuan Plankton di Indonesia*. Oseanologi dan Limnologi di Indonesia. 30: 63-95.
- Baryla, A., Carrier P., Franck F., Coulomb C., Sahut C., Havaux M. 2001. Leaf Chlorosis in Oilseed Rape Plants (*Brassica napus*) Grown on Cadmium Polluted Soil: Causes and Consequences for Photosynthesis and Growth. *Planta*, 212: 696–709
- Basmi. 1999. *Perkembangan Komunitas Plankton sebagai Indikator Perubahan Tingkat Kesuburan Kualitas Perairan*. Jurusan Ilmu Perairan Fakultas Pascasarjana.Institut Pertanian Bogor. Bogor
- Benhard, M. 1978. *Impact and Control of Heavy Metals and Chlorinated Hydrocarbons in the Marine Environment*. WHO training course on coastal pollution control. Vol III. Denmark. 991 -1015.
- Botes, Lizeth. 2011. *Phytoplankton Identification Catalogue*. A cooperative initiative of the Global Environment Facility, United Nations Development Programme and International Maritime Organization.
- Dwivedi, S. 2012. Bioremediation of Heavy Metal by Algae: Current and Future Perspective. *Journal of Advanced Laboratory Research in Biology*. Vol 3: 195-199.
- Endah, R. S. D. 2015. *Respon Penurunan Konsentrasi Logam Berat Kromium (Cr) dan Pertumbuhan Mikroalga Chlorella vulgaris pada Media Kultur*. Seminar Nasional Konservasi dan Pemanfaatan Sumber Daya Alam.
- Ettajani, H., B Berthet, J C Amiard, L Chevrolot. 2001. Determination of Cadmium Partitioning in microalgae and oysters : contribution to the assessment of trophic transfer. Environmental contamination and toxicology. *Arch. Environ. Contam. Toxicol.* 40, 209 –221
- Fardiaz, S. 1992. *Polusi Air dan Udara*. Kanisius: Yogyakarta

- Fauziah. 2011. Efektivitas Penyerapan Logam Kromium (Cr IV) dan Kadmium (Cd) oleh *Scenedesmus dimorphus*. Skripsi. Program Studi Biologi, Fakultas Sains dan Teknologi, Universitas Islam Negeri Syarif Hidayatullah, Jakarta.
- Gaur, J.P. and Rai, L.C. 2001. Heavy Metal Tolerance in Algae. Springer-Verlag, Berlin, pp. 363–388.
- Gupta, R. P., Ahuya, S. Khan, R. K. Sakena and H. Mohapatra. 2000. Microbial Biosorbent: Meeting Challanges of Heavy Metal Pollution in Aqueous Solution. *Current Science* 78 (8).
- Goldman, C.R. and A.J. Horne. 1983. *Limnology*. McGraw-Hill, NewYork, 464 pp.
- Guiry, M. D. and Guiry, G. M. 2011. *Skeletonema costatum (Greville) Cleve*. http://www.algaebase.org/search/species/detail/?species_id=39687. Accessed 05 Desember 2014
- Harinanda, I. P. 2006. Studi Perbandingan Pertumbuhan Beberapa Jenis Diatom Dalam Berbagai Media. Skripsi. Program Studi Biologi, Fakultas Sains dan Teknologi, Universitas Airlangga, Surabaya.
- Haryati. 1980. Percobaan Penggunaan Beberapa Macam Komposisi Media Terhadap Pertumbuhan Populasi Monokultur *Skeletonema costatum* Greville. Skripsi. Fakultas Peternakan dan Perikanan. Universitas Diponogoro Semarang.
- Hutagalung, H.P. 1984. *Logam Berat Dalam Lingkungan Laut*. Pusat Penelitian Ekologi, Lembaga Oseanologi Nasional - LIPI, Jakarta. Oseana, Volume IX, Nomor 1 : 11-20, 1984
- Isnansetyo, A. dan Kurniastuty. 1995. *Teknik Kultur Fitoplankton dan Zooplankton Untuk Pemberian Organisme Laut*. Kanisius: Jakarta
- Jamil, K. 2001. *Bioindicators and Biomarkers of Environmental Pollution and Risk Assessment*. Science publishers inc., Enfield
- Kholidiyah, N. 2010. Respon Biologis Tumbuhan Eceng Gondok (*Eichornia crassipes* Solms) Sebagai Biomonitoring Pencemaran Logam Berat Cadmium (Cd) dan Plumbum (Pb) pada Sungai Pembuangan Lumpur Lapindo, Kecamatan Prong, Kabupaten Sidoarjo. Skripsi. Program Studi Biologi, Fakultas Sains dan Teknologi, Universitas Islam Negeri Maulana Malik Ibrahim, Malang.
- Knauer, K. R. Behra and L. Sigg. 1997. Adsorption and Uptake of Copper by the Green Algae *Scenedesmus subspicatus* (Chlorophyta). *Journal Phycol*.

- Leonard, R. 2014. Studi Perbandingan Kemampuan *Skeletonema* sp. dan *Chaetoceros* sp. Sebagai Agen Bioremediasi Terhadap Logam Berat Merkuri (Hg). Skripsi. Program Studi Budidaya Perairan, Fakultas Perikanan dan Kelautan, Universitas Airlangga, Surabaya.
- Makkasau, A., Sjahrul M., Jalaluddin M.N., dan Raya I. 2011. *Teknik Fitoremediasi Fitoplankton Suatu Alternatif Pemulihan Lingkungan Laut yang Tercemar Ion Logam Cd²⁺ dan Cr⁶⁺*. Pendidikan Guru Sekolah Dasar. Volume 7, nomor 2, 155-168
- Mohsin, Y. 2006. *Kadmium*. <http://www.chem-ist-try.org>. Diakses pada tanggal 29 Desember 2014 pukul 19.00 WIB
- Mukhtasor. 2010. *Ekonomi dan Teknologi Pencemaran Laut*. Pidato Pengukuhan Jabatan Guru Besar dalam Bidang Ilmu Pencemaran Laut Jurusan Teknik Kelautan, Fakultas Teknologi Kelautan, Institut Teknologi Sepuluh Nopember, Surabaya.
- Monteiro, C M., Castro P M L., Malcata F X. 2009. Use of The Microalga *Scenedesmus obliquus* To Remove Cadmiumcations from Aqueous Solutions. *World J Microbiol Biotechnol* 25: 1573-1578
- Monteiro C. M., Paula M L C, F Xavier M. 2010. Cadmium Removal by Two Strains of *Desmodesmus pleiomorphus* Cells. *Water Air Soil Pollut* 208:171
- Moore J.W. and Ramamorthy S. 1984. *Heavy Metals in Natural Waters, applied Monitoring and Impact Assessment*: Springer-Verlag New York Inc.
- Morelli, E., G Scarano. 2001. Synthesis and Stability of Phytochelatins Induced by Cadmium and Lead in the Marine Diatom *Phaeodactylum tricornutum*. *Marine Environmental Research* volume 52, Issue 4, oct 2001,pages 383-395
- Morelli E., Maria L M., Laura F. 2008. A Phytochelatin Based Bioassay in Marine Diatoms Useful for the Assessment of Bioavailability of Heavy Metals Released by Polluted Sediment. *Environmental Internation* vol 35, Issue 3, April 2009 pages 532 – 538
- Nassiri, Y., Mansot J.L., We' ry J., Ginsburger-Vogel T., Amiard J.C. 1997. Ultrastructural and Electron Energy Loss Spectroscopy Studies of Sequestration Mechanisms of Cd and Cu in the Marine Diatom *Skeletonema costatum*. *Arch. Environ. Contam. Toxicol.* 33, 147–155
- Odum, E. P. 1979. *Fundamental of Ecology (3rd Edition)*. Original English Edition. W., B., Sounders Co. Philadelphia.

- O'Neil, P. 1985. *Environmental Chemistry*. St. Edmundsbury Press. Great Britain, pp 220-221.
- Perales-Vela H.V., Pena-Castro J.M., Canizares-Villanueva R.O. 2006. Heavy Metal Detoxification in Eukaryotic Microalgae. *Chemosphere*, 64: 1-10
- Pinto, E. T. C. S., S. Kutner, M. A. S. Leitao, O. K. Okamoto, D. Morse & P. Colepicolo. 2003. Heavy Metal Induced Oxidative Stress in Algae. *J. Phycol.* 39. 1008-1012
- Priadi, B. 2012. Teknik Bioremediasi Sebagai Alternatif Dalam Upaya Pengendalian Pencemaran Air. *Jurnal Ilmu Lingkungan*, Vol 10 (1): 38-48
- Price N. M, Morel F. M. M. 1990. Cadmium and Cobalt Substitution Forzinc in a Marine Diatom. *Nature* 344:658 – 660
- Primartanyo, U. 2008. *Limbah Tekstil Cemari Sungai di Surakarta*. <http://nasional.tempo.co/read/news/2008/10/14/055140184/limbah-tekstil-cemari-sungai-di-surakarta>
- Rahmadiani W. D. D., Aunurohim. 2013. Bioakumulasi Logam Berat Kadmium (Cd) oleh *Chaetoceros calcitrans* pada Konsentrasi Sublethal. *Jurnal Sains dan Seni POMITS* Vol.2 No. 2.
- Rangsayatorn N., Upatham E.S., Kruatrachue M., Pokethitiyook P., Lanza GR. 2002. Phytoremediation potential of *Spirulina platensis* (Arthrospira) : biosorption and toxicity studies of cadmium. *Environ Pollut* 119:45–53.
- Rijstenbil J. W., Sandee A., Van Drie J., Wijnholds J. A. 1994. Interaction of Toxic Trace metals and Mechanisms of Detoxification in the Planktonic Diatoms *Ditylum Brightwellii* and *Thalassiosira pseudonana*. *FEMS Microbiol Rev* 14:387–396
- Romimohtarto, K. dan Juwana S. 2001. *Biologi Laut*. Penerbit Djambatan: Jakarta.
- Sanusi, H., S. 2006. *Kimia Laut, Proses Fisik Kimia dan Interaksinya dengan Lingkungan*. Bogor: Departemen Ilmu dan Teknologi Kelautan, Fakultas Perikanan dan Ilmu Kelautan. Institute Pertanian Bogor.
- Sharma, O. P., 1986. *Textbook of Algae*. Tata McGraw-Hill Publishing Company: New Delhi.
- Shaw, A. J., 1989. (Ed.), *Heavy Metal Tolerance in Plants: Evolutionary aspects*. CRC Press Inc., Boca Raton. FL., pp.195-214.

- Skowronski, T. 1986. Influnce of Some Physic-Chemical Factors on Cadmium Uptake by The Green Algae *Stichococcus bacillaris*. *Applied Microbiology and Biotechnology* 24:423-425
- Slamet, J S. 1996. *Kesehatan Lingkungan*. Yogyakarta : Gadjah Mada University Press
- Stewart (ed.) 1974. *Algal Physiology and Biochemistry*. University or California Press: Los Angeles.
- Soeprobawati, T. dan Suwarno H. 2009. Diatom dan Paleolimnologi: Studi Komparasi Perjalanan Sejarah Danau Lac Saint-Augustine Quebec-City, Canada DAN Danau Rawa Pening Indonesia. *Biota*. Vol. 14 (1): 60-68. ISSN 0853-8670.
- Stokes, P.M., Maler T., Riordan, J.R. 1977. *A Low Molecular Weight Copper-Binding Protein in a Copper Tolerant Strain Scenedesmus acutiformis*. In: Hemphil, D.D. (Ed.), *Trace Substances in Environmental Health*. University of Missouri Press, Columbia, pp. 146–154.
- Subroto, M A. 1996. *Fitoremediasi*. Prosiding Pelatihan dan Lokakarya “Peranan Bioremediasi dan Pengelolaan Lingkungan. LIPI/BPPT/HSF. Cibinong, Bogor
- Suhendrayatna. 2011. Heavy Metal Bioremoval by Microorganisms: A Literature Study. [Http://www.istecs.org/Publication/Japan/010211_suhendrayatna.pdf](http://www.istecs.org/Publication/Japan/010211_suhendrayatna.pdf) [12/05/2003]
- Taraldvsik, M. dan Sverre M. Myklestad. 2000. The Effect of pH on Growth Rate, Biochemical Composition and Extracellular Carbohydrate Production of Marine Diatom *Skeletonema costatum*. *European Journal of Phycology*. Volume 35. Issue 2 May 2000, pp 189-194.
- Waldichuck, M., 1974. *Some Biological Concern in Metals Pollution: "Pollution and physiology of marine organisms"* (VERNBERG & VERNBERG eds.) Acad. Press. London.1 - 45.
- Wang Y., Deyuan Z., Jun C., Junfeng P., M Chen., Aobo L., Yonggang J. 2012. Biosilica Structures Obtained from *Nitzschia*, *Ditylum*, *Skeletonema*, and *Coscinodiscus* Diatom by A Filtration-aided Acid Cleaning Method. *Appl Microbiol Biotechnol* 95:1165–1178
- Wibowo, A., Soenarnatalina, R. Indawati, Mahmudah, dan D. Indriani. 2008. SPSS. Departemen Biostatistika dan Kependudukan Fakultas Kesehatan Mayarakat Universitas Airlangga, Surabaya.

Widiyani. 1985. Pengaruh Berbagai Tingkat Intensitas Cahaya terhadap Pertumbuhan Populasi *Skeletonema costatum* (Grev). Clev. Skripsi. Fakultas Peternakan, Universitas Diponegoro.

Wisudyawati, D. 2014. Studi Perbandingan Kemampuan *Skeletonema* sp. dan *Chaetoceros* sp. Sebagai Agen Bioremediasi (Fito-Akumulasi) Terhadap Logam Timbal (Pb). Skripsi. Program Studi Budidaya Perairan, Fakultas Perikanan dan Kelautan, Universitas Airlangga, Surabaya.

Wkonson. J. F. 1982. *Basic Microbiology*. Vol 9. Blackwel Scientific Publication Lond

