

DAFTAR PUSTAKA

- Ahemad, M. and A. Malik. 2012. Bioaccumulation of heavy metals by zinc resistant bacteria isolated from agricultural soils irrigated with wastewater. *Bacteriology Journal* 2(1): 12-21.
- Altimira, F., C. Yanez, G. Bravo, M. Gonzales, L. A. Rojas, and M. Seeger. 2012. Characterization of copper-resistant bacteria and bacterial communities from copper-polluted agricultural soils of central Chile. *BMC Microbiology* 12: 1-12.
- Anbu, P., C. Kang, Y. Shin, and J. So. 2016. Formations of calcium carbonate minerals by bacteria and its multiple applications. *SpringerPlus* 5: 1-26.
- Azeez, M. O., O. O. Adesanwo, and J. A. Adepetu. 2015. Effect of copper (Cu) application on soil available nutrients and uptake. *African Journal of Agricultural Research* 10: 359-364.
- Babiker, R. A., U. A. Elsharief, J. B. Salim, N. A. R. Mohammed, and H. M. Abdallah. 2020. Bacterial removal of lead and mercury elements from water using *Pseudomonas aeruginosa* in vitro. *Applied Microbiology Open Access* 6 (169): 1-4.
- Celante, V. G. and M. B. J. G. Freitas. 2010. Electrodeposition of copper from spent Li-ion batteries by electrochemical quartz crystal microbalance and impedance spectroscopy techniques. *Journal of Applied Electrochemistry* 40: 233-239.
- Chen, W., F. Yang, L. Zhang, and J. Wang. 2015. Organic acid secretion and phosphate solubilizing efficiency of *Pseudomonas* sp. PSB12: Effects of phosphorus forms and carbon sources. *Geomicrobiology Journal* 33 (10): 870-877.
- Chiou, W. Y. and F. C. Hsu. 2019. Copper toxicity and prediction models of copper content in leafy vegetables. *Sustainability* 11: 1-18.
- Cornu, J. Y., D. Huguenot, K. Jezequel, M. Lollier, and T. Lebeau. 2017. Bioremediation of copper-contaminated soils by bacteria. *World Journal of Microbiology and Biotechnology* 33(26): 1-9.
- Fang, L., X. Wei, P. Cai, Q. Huang, H. Chen, W. Liang, and X. Rong. 2011. Role of extracellular polymeric substances in Cu(II) adsorption on *Bacillus subtilis* and *Pseudomonas putida*. *Bioresource Technology* 102: 1137-1141.
- Ferret, C., T. Sterckeman, J. Y. Cornu, S. Gangloff, I. J. Schalk, and V. A. Geoffroy. 2014. Siderophore-promoted dissolution of smectite by fluorescent *Pseudomonas*. *Environmental Microbiology Reports* 6: 459-467.
- Fomina, M. and G. M. Gadd. 2014. Biosorption: current perspectives on concept, definition, and application. *Bioresource Technology* 160: 3-14.
- Gaetke, L. M., H. S. C. Johnson, and C. K. Chow. 2014. Copper: toxicological relevance and mechanisms. *Archives of Toxicology* 88(11): 1929-1938.

- Grybos, M., P. Billard, S. D. Banon, L. J. Michot, J. F. Lenain, and C. Mustin. 2011. Bio-dissolution of colloidal-size clay minerals entrapped in microporous silica gels. *Journal of Colloid and Interface Science* 362: 317-324.
- Htwe, T., J. Onthong, S. Duangpan, K. Techato, P. Chotikarn, and S. Sinutok. 2020. Effect of copper contamination on plant growth and metal contents in rice plant (*Oryza sativa* L.). *Communications in Soil Science and Plant Analysis* 51(18): 2349-2360.
- Khaira, K. 2014. Analisis kadar tembaga (Cu) dan Seng (Zn) dalam air minum isi ulang kemasan gallon di Kecamatan Lima Kaum Kabupaten Tanah Datar. *Jurnal Saintek* 6 (2): 116-123.
- Li, B., Y. Ma, and J. Yang. 2017. Is the computed speciation of copper in a wide range of Chinese soils reliable?. *Chemical Speciation and Bioavailability* 29 (1): 205-215.
- Malecki, J. J., M. K. Schoeneich, and M. S. Holownia. 2016. Concentration and mobility of copper and zinc in the hypergenic zone of a highly urbanized area. *Environmental Earth Science* 75(24): 1-13.
- Menteri Kesehatan Republik Indonesia. 2010. Peraturan Menteri Kesehatan Republik Indonesia Nomor 492/Menkes/PER/IV/2010 Tentang Persyaratan Kualitas Air Minum. <<http://pamsimas.org/konten/pustaka/peraturan/PMK-No-492-ttg-Persyaratan-Kualitas-Air-Minum.pdf>>. Diakses 22 Oktober 2021.
- Ministry of State for Population and Environment Republic of Indonesia and Dalhousie University of Canada. 1992. *Environmental Management in Indonesia. Report on Soil Quality Standards for Indonesia (interim report)*.
- Mustafa, S. K. and M. A. Alsharif. 2018. Copper (Cu) an essential redox-active transition metal in living system-a review article. *American Journal of Analytical Chemistry* 9: 15-26.
- Mwandira, W., K. Nakashima, S. Kawasaki, A. Arabelo, K. Banda, I. Nyambe, M. Chirwa, M. Ito, T. Sato, T. Igarashi, H. Nakata, S. Nakayama, and M. Ishizuka. 2020. Biosorption of Pb (II) and Zn (II) from aqueous solution by *Oceanobacillus profundus* isolated from an abandoned mine. *Scientific Reports* 10: 1-9.
- Panhwar, Q. A., U. A. Naher, S. Jusop, R. Othman, M. A. Latif, and M. R. Ismail. 2014. Biochemical and molecular characterization of potential phosphate-solubilizing bacteria in acid sulfate soils and their beneficial effect on rice growth. *Plos One* 9: 1-14.
- Ratiu, I. A., T. Ligor, V. B. Bintintan, H. Al-Soud, T. Kowalkowski, K. Rafinska, and B. Buszewski. 2017. The effect of growth medium on *Escherichia coli* pathway mirrored into GC/MS profiles. *Journal of Breath Research* 11 (3): 1-24.

- Santoso, A.R. 2019. Potensi Isolat Bakteri Toleran Merkuri dari Sisa Pengolahan Bijih Mineral Pertambangan Emas sebagai Bioremediator. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Santoso, J. P. Haumahu, and M. L. Habi. 2016. Analisis spasial pencemaran logam berat sebagai dampak tempat pembuangan akhir sampah Kota Ambon pada Das Wai Yori di Negeri Passo. *Jurnal Budidaya Pertanian* 12 (2): 55-65.
- Sharma, B. D., J. S. Brar, J. K. Chanay, P. Sharma, and P. K. Singh. 2015. Distribution of forms of copper and their association with soil properties and uptake in major soil orders in semi-arid soils of Punjab, India. *Communications in Soil Science and Plant Analysis* 46: 511-527.
- Simsek, I., M. Karatas, and E. Basturk. 2013. Cu(II) removal from aqueous solution by ureolytic mixed culture (UMC). *Colloids and Surfaces B: Biointerfaces* 102: 479-483.
- Syarifuddin, D. W. 2020. Penurunan Konsentrasi Merkuri Divalen (Hg²⁺) oleh Bakteri *Sphingomonas* sp. dan *Pseudomonas* sp. Tahan Merkuri. Fakultas Pertanian. Universitas Gadjah Mada. Skripsi.
- Taylor, A. A., J. S. Tsuji, M. R. Garry, M. E. McArdle, W. L. Goodfellow, W. J. Adams, and C. A. Menzie. 2020. Critical review of exposure and effects: implications for setting regulatory health criteria for ingested copper. *Environmental Management* 65: 131-159.
- Vestola, E. A., M. K. Kuusenaho, H. M. Narhi, O. H. Tuovinen, J. A. Puhakka, J. J. Plumb, and A. H. Kaksonen. 2010. Acid bioleaching of solid waste materials from copper, steel, and recycling industries. *Hydrometallurgy* 103: 74-79.
- Waluyo, L. 2018. Bioremediasi Limbah. UMM Press, Malang.
- Whitby, H., J. T. Hollibaugh, and C. M. G. Berg. 2017. Chemical speciation of copper in a salt marsh estuary and bioavailability to thaumarchaeota. *Frontiers in Marine Science* 4: 1-15.
- Widiyanti, D. and A. Khusnuryani. 2021. Potential of indigenous bacteria from batik waswater as Cu bioremediation agent. *Proceedings of The International Conference on Scientific Engineering* 4: 64-69.
- Wuana, R. A. and F. E. Okieimen. 2011. Heavy metals in contaminated soils: review of sources, chemistry, and best available strategies for remediation. *International Scholarly Research Network*: 1-21.
- Xie, X., J. Fu, H. Wang, and J. Liu. 2010. Heavy metal resistance by two bacteria strains isolated from a copper mine tailing in China. *African Journal of Biotechnology* 9 (26): 4056-4066.