

## DAFTAR PUSTAKA

- [1] Eko Handayanto, Yulia Nuraini, Nurul Muddarisna, Netty Syam, and Amrullah Fiqri, *Fitoremediasi dan Phytomining Logam Berat Pencemar Tanah*, 1st ed. Malang: UB Press, 2016.
- [2] N. Hidayati, “Fitoremediasi dan Potensi Tumbuhan Hiperakumulator,” *HAYATI Journal of Biosciences*, vol. 12, no. 1, pp. 35–40, Mar. 2005, doi: 10.1016/S1978-3019(16)30321-7.
- [3] S. Min, H. Kang, B. Seo, C. Roh, S. Hong, and J. Cheong, “Integrated and Portable Probe Based on Functional Plastic Scintillator for Detection of Radioactive Cesium,” *Applied Sciences*, vol. 11, no. 11, p. 5210, Jun. 2021, doi: 10.3390/app11115210.
- [4] M. A. Ashraf, S. Akib, Mohd. J. Maah, I. Yusoff, and K. S. Balkhair, “Cesium-137: Radio-Chemistry, Fate, and Transport, Remediation, and Future Concerns,” *Critical Reviews in Environmental Science and Technology*, vol. 44, no. 15, pp. 1740–1793, Aug. 2014, doi: 10.1080/10643389.2013.790753.
- [5] Antara News, “Teka-teki radiasi Cs-137 di Serpong,” BAPETEN, Jakarta, Infography, Feb. 2020. Accessed: May 24, 2024. [Online]. Available: <https://www.antaranews.com/infografik/1302170/teka-teki-radiasi-cs-137-di-serpong>
- [6] D. Pangestu and A. Setyawan, “Desain Awal Transit Shelter Untuk Penyimpanan Sementara Limbah Radioaktif Hasil Clean Up Kontamonasi Radioaktif Batan Indah,” in *Prosiding Hasil Penelitian dan Kegiatan PTLR*, Serpong, Indonesia: Pusat Teknologi Limbah Radioaktif-Badan Tenaga Nuklir Nasional, 2019.
- [7] L. F. Juárez-Santillán, C. A. Lucho-Constantino, G. A. Vázquez-Rodríguez, N. M. Cerón-Ubilla, and R. I. Beltrán-Hernández, “Manganese accumulation in plants of the mining zone of Hidalgo, Mexico,” *Bioresource Technology*, vol. 101, no. 15, pp. 5836–5841, Aug. 2010, doi: 10.1016/j.biortech.2010.03.020.
- [8] Poppy Intan Tjahaja and Putu Sukmabuana, “Penyerapan <sup>134</sup>Cs dari Tanah Oleh Tanaman Bunga Matahari(*Helianthus annuus*, Less),” in *Prosiding Seminar Nasional Sains dan Teknologi Nuklir PTNBR – BATAN Bandung*, Bandung: BATAN, Jul. 2007.
- [9] M. Tamaoki *et al.*, “Comparison of Potentials of Higher Plants for Phytoremediation of Radioactive Cesium from Contaminated Soil,” *Environ. Control Biol.*, vol. 54, no. 1, 2016.



- [10] M. M. Muslimah, “Dampak Pencemaran Tanah dan Langkah Pencegahan,” *Agri*, vol. 2, no. 1, pp. 11–20, Oct. 2017, doi: 10.33059/jpas.v2i1.224.
- [11] J. C. Ritchie and J. R. McHenry, “Application of Radioactive Fallout Cesium-137 for Measuring Soil Erosion and Sediment Accumulation Rates and Patterns: A Review,” *J of Env Quality*, vol. 19, no. 2, pp. 215–233, Apr. 1990, doi: 10.2134/jeq1990.00472425001900020006x.
- [12] “The Rich Physics of Cs-137 Gamma Spectrum,” Maximus Energy. Accessed: May 25, 2024. [Online]. Available: <https://maximus.energy/index.php/2020/10/24/the-rich-physics-of-cs-137-gamma-spectrum/>
- [13] M. Sitarz, “Research on production of new medical radioisotopes with cyclotron,” Warszawa: University of Warsaw, 2020.
- [14] G. F. Knoll, *Radiation detection and measurement*, 4th ed. Michigan: John Wiley & Sons, Inc., 2010.
- [15] Amir Hamzah and Rossyda Priyadarshini, *Remediasi Tanah Tercemar Logam Berat*. Malang: Unitri Press, 2019.
- [16] R. L. Chaney *et al.*, “Phytoremediation of soil metals,” *Current Opinion in Biotechnology*, vol. 8, no. 3, pp. 279–284, Jun. 1997, doi: 10.1016/S0958-1669(97)80004-3.
- [17] G. A. B. Sukono, F. R. Hikmawan, E. Evitasari, and D. Satriawan, “Mekanisme Fitoremediasi: Review,” *JPPL*, vol. 2, no. 2, pp. 40–47, Oct. 2020, doi: 10.35970/jppl.v2i2.360.
- [18] EPA, *Introduction to Phytoremediation*. Washington, D.C.: U.S. Environmental Protection Agency, 2000.
- [19] Rufus Lee Chaney, “Potential of Use Metal Hyperaccumulator,” *Mining Environmental Management*, Sep. 1995.
- [20] N. Hidayati, “Mekanisme Fisiologis Tumbuhan Hiperakumulator Logam Berat = Heavy Metal Hyperaccumulator Plant Physiology Mechanism,” *Jurtekling*, vol. 14, no. 2, p. 75, Dec. 2016, doi: 10.29122/jtl.v14i2.1424.
- [21] I. Raskin, P. N. Kumar, S. Dushenkov, and D. E. Salt, “Bioconcentration of heavy metals by plants,” *Current Opinion in Biotechnology*, vol. 5, no. 3, pp. 285–290, Jun. 1994, doi: 10.1016/0958-1669(94)90030-2.
- [22] H. E. Abou-Aly, A. M. Youssef, T. A. Tewfike, E. A. El-Alkshar, and R. M. El-Meihy, “Reduction of heavy metals bioaccumulation in sorghum and its rhizosphere by heavy metals-tolerant bacterial consortium,” *Biocatalysis and*



- Agricultural Biotechnology*, vol. 31, p. 101911, Jan. 2021, doi: 10.1016/j.bcab.2021.101911.
- [23] D. B. Ramanlal, R. N. Kumar, N. Kumar, and R. Thakkar, "Assessing potential of weeds (*Acalypha indica* and *Amaranthus viridis*) in phytoremediating soil contaminated with heavy metals-rich effluent," *SN Appl. Sci.*, vol. 2, no. 6, p. 1063, Jun. 2020, doi: 10.1007/s42452-020-2859-0.
- [24] A. Buscaroli, "An overview of indexes to evaluate terrestrial plants for phytoremediation purposes (Review)," *Ecological Indicators*, vol. 82, pp. 367–380, Nov. 2017, doi: 10.1016/j.ecolind.2017.07.003.
- [25] J. M. Stephens, *Chaya—Cnidoscolus chayamansa McVaugh*. Gainesville: Horticultural Science Department-University of Florida, 2015.
- [26] V. Rajna and R. Vidya, *Chapter 14: Pharmacological Potential of Cnidoscolus Species- A Comprehensive Overview*, vol. III. Kolhapur: Bhumi Publishing, 2024.
- [27] Putri Aulia Arza, *Daun Pepaya Jepang: Budidaya, Kandungan, dan Manfaatnya Bagi Kesehatan*. Malang: Madza Media, 2022.
- [28] Wei Qiulan, Zhong Lianxing, Lu Juan, Zhang Xiaoning, Qin Zihai, and Liu Hailong, "Effects of Different Factors on Rooting of *Cnidoscolus aconitifolius*," *Guangxi Forestry Science*, vol. 50, no. 3, Jun. 2021.
- [29] "*Cnidoscolus aconitifolius* (Mill.) I.M.Johnst." Accessed: May 25, 2024. [Online]. Available: <https://www.gbif.org/species/3073512>
- [30] United States Agency for International Development (USAID) American People, "Chaya-High Nutrition Perennial Technical Bulletin 92," *Cambodia Harvest*, 2013.
- [31] N. Luhur, Kadarusmanto, and Subiharto, "Uji Banding Sistem Spektrometer Gamma Dengan Metoda Analisis Sumber Eu-152," *Buletin Pengelolaan Reaktor Nuklir*, vol. X, no. 1, pp. 22–30, Apr. 2013.
- [32] Nicholas Tsoulfanidist and Sheldon Landsberger, *Measurement & Detection of Radiation 4th Edition*. in 4th. New York: CRC Press, 2015.
- [33] E. Ratnawati and J. Iman, "Uji Akurasi Alat Pencacah Spektrometer Gamma dengan Menggunakan Sumber Standar," in *Prosiding Seminar Nasional Teknologi dan Aplikasi Reaktor Nuklir*, PRSG, Serpong: Badan Tenaga Nuklir Nasional, 2015.
- [34] K. S. Krane, *Introductory Nuclear Physics*. New York: John Wiley & Sons, 1988.



- [35] L. Nirwani, Wahyudi, and D. Iskandar, "Study on the Cs137 and Co60 Transfer Factors from Soil to Several Tropical Vegetables," *Radiatin Environment and Medicine*, vol. 13, no. 1, pp. 19–27, 2023, doi: 10.51083/radiatenvironmed.13.1\_19.
- [36] K. W. Sukowati, G. S. Wijaya, and A. Muharini, "Validasi ETNA (Efficiency Transfer for Nuclide Activity measurement) untuk Analisis Sampel Radioaktivitas Lingkungan dengan Spektrometri Gamma," *Teknofisika*, vol. 3, no. 1, Jan. 2014.
- [37] D. Radu, D. Stanga, and O. Sima, "ETNA software used for efficiency transfer from a point source to other geometries," *Applied Radiation and Isotopes*, vol. 67, no. 9, pp. 1686–1690, Sep. 2009, doi: 10.1016/j.apradiso.2009.02.088.
- [38] J. Caroline and G. A. Moa, "Fitoremediasi Logam Timbal (Pb) Menggunakan Tanaman Melati Air (*Echinodorus palaefolius*) pada Limbah Industri Peleburan Tembaga dan Kuningan," presented at the Seminar Nasional Sains dan Teknologi Terapan III 2015, Surabaya: Institut Teknologi Adhi Tama Surabaya, 2015.
- [39] B. Fatkul Hamsyah and S. Sitawati, "Respon Pertumbuhan dan Hasil Tanaman Krisan Pot (*Chrysanthemum* sp.) pada Beberapa Jumlah Stek," *jpt*, vol. 5, no. 2, pp. 144–152, Aug. 2020, doi: 10.21776/ub.jpt.2020.005.2.6.
- [40] Socfindo Conservation, "Pepaya Jepang." Accessed: Apr. 11, 2024. [Online]. Available: <https://www.socfindoconservation.co.id/plant/394>
- [41] D. E. Salt, R. D. Smith, and I. Raskin, "Phytoremediation," *Annu. Rev. Plant Physiol. Plant Mol. Biol.*, vol. 49, no. 6, pp. 43–68, 1998.
- [42] F. Giannakopoulou, C. Haidouti, A. Chronopoulou, and D. Gasparatos, "Sorption behavior of cesium on various soils under different pH levels," *Journal of Hazardous Materials*, vol. 149, no. 3, pp. 553–556, Nov. 2007, doi: 10.1016/j.jhazmat.2007.06.109.
- [43] Kepala Badan Pengawas Tenaga Nuklir, "Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 16 Tahun 2012 Tentang Tingkat Klierens." Jakarta: BAPETEN, 2012.
- [44] Presiden Republik Indonesia, "Peraturan Pemerintah Republik Indonesia Nomor 61 Tahun 2013 Tentang Pengelolaan Limbah Radioaktif." Jakarta: Pemerintah Republik Indonesia, 2013.
- [45] Presiden Republik Indonesia, "Peraturan Pemerintah Republik Indonesia Nomor 45 Tahun 2023 Tentang Keselamatan Radiasi Pengion Dan Keamanan Zat Radioaktif." Jakarta: Pemerintah Republik Indonesia, 2023.

