

DAFTAR PUSTAKA

- [1] S. C. Gad and T. Pham, “Cesium,” in *Encyclopedia of Toxicology*, Elsevier, 2014, pp. 776–778. doi: 10.1016/B978-0-12-386454-3.00827-7.
- [2] I. P. Tjahaja and P. Sukmabuana, “Penyerapan ^{134}Cs dari tanah oleh tanaman bunga matahari (*Helianthus anuus*, Less).” Pusat Teknologi Nuklir Bahan dan Radiometri, BATAN, Bandung 40132, Jul. 17, 2007.
- [3] G.-N. Kim, S.-S. Kim, U.-R. Park, and J.-K. Moon, “Decontamination of Soil Contaminated with Cesium using Electrokinetic-electrodialytic Method,” *Electrochimica Acta*, vol. 181, pp. 233–237, Nov. 2015, doi: 10.1016/j.electacta.2015.03.208.
- [4] Minhee, Lee, Chang, Youngjin, and Minjun, “Remediation Of Uranium And Cesium Contaminated Soils By Using Soil Washing Process.” Accessed: Jun. 01, 2024. [Online]. Available: <https://gsa.confex.com/gsa/2007AM/webprogram/Paper129848.html>
- [5] J. H. Kim, H. Anwer, Y. S. Kim, and J.-W. Park, “Decontamination of radioactive cesium-contaminated soil/concrete with washing and washing supernatant– critical review,” *Chemosphere*, vol. 280, p. 130419, Oct. 2021, doi: 10.1016/j.chemosphere.2021.130419.
- [6] M. M. Lasat, M. Fuhrmann, S. D. Ebbs, J. E. Cornish, and L. V. Kochian, “Phytoremediation of a Radiocesium-Contaminated Soil: Evaluation of Cesium-137 Bioaccumulation in the Shoots of Three Plant Species,” *J. Environ. Qual.*, vol. 27, no. 1, pp. 165–169, Jan. 1998, doi: 10.2134/jeq1998.00472425002700010023x.
- [7] S. Lee Don, M. Sutton, T. Stillman, and M. Sinclair, “Review of Phytoremediation Technologies for Radiological Contamination,” *US Environ. Prot. Agency*, Ohio, 2021.
- [8] E. Etim, “Phytoremediation and its mechanisms: A review,” *Int J Env. Bioenergy*, vol. 2, pp. 120–136, Jan. 2012.



- [9] S. Dushenkov, A. Mikheev, A. Prokhnevsky, M. Ruchko, and B. Sorochinsky, "Phytoremediation of Radiocesium-Contaminated Soil in the Vicinity of Chernobyl, Ukraine," *Environ. Sci. Technol.*, vol. 33, no. 3, pp. 469–475, Feb. 1999, doi: 10.1021/es980788+.
- [10] K. N. Luongo and M. Korsnick, "Responding to Climate Change and Strengthening Global Security," *Glob. Nexus Initiat.*, Jun. 2019.
- [11] M. Sadhasivam, S. Pitchammuthu, and V. Ayyavu, "Chemically induced phytoextraction of caesium -137," Faculty of Agriculture, Annamalai University, Annamalainagar, 2010.
- [12] S. Sandeep and K. M. Manjaiah, "Transfer factors of ^{134}Cs to crops from Typic Haplustept under tropical region as influenced by potassium application," *J. Environ. Radioact.*, vol. 99, no. 2, pp. 349–358, Feb. 2008, doi: 10.1016/j.jenvrad.2007.08.011.
- [13] S. Djedidi, K. Kojima, N. Ohkama-Ohtsu, S. D. Bellingrath-Kimura, and T. Yokoyama, "Growth and ^{137}Cs uptake and accumulation among 56 Japanese cultivars of Brassica rapa, Brassica juncea and Brassica napus grown in a contaminated field in Fukushima: Effect of inoculation with a *Bacillus pumilus* strain," *J. Environ. Radioact.*, vol. 157, pp. 27–37, Jun. 2016, doi: 10.1016/j.jenvrad.2016.02.024.
- [14] L. Nirwani, wahyudi, and G. Suharyono, "Transfer Factor ^{137}Cs from Bengkayang Soil to Corn Plants (*Zea mays*)," Penerbit Percetakan Univ. Sriwij. UNSRI, Palembang, 2023.
- [15] L. Nirwani, Wahyudi, and D. Iskandar, "Study on the ^{137}Cs and ^{60}Co Transfer Factors from Soil to Several Tropical Vegetables," Feb. 28, 2024, *Hirosaki University Press.*: 1. doi: 10.51083/radiatenvironmed.13.1_19.
- [16] J.-H. Kim, S.-M. Kim, I.-H. Yoon, H.-M. Yang, and I. Kim, "Novel two-step process for remediation of Cs-contaminated soil assisted by magnetic composites," *Chem. Eng. J.*, vol. 424, p. 130554, Nov. 2021, doi: 10.1016/j.cej.2021.130554.
- [17] A. Yanaka, "Study On Removal Of Cesium From Contaminated Soil By Electrophoresis Using Potassium Acetate As Electrolyte," *Int. J. Geomate*, vol. 20, no. 81, May 2021, doi: 10.21660/2021.81.6222.
- [18] J.-H. Kim, S.-M. Kim, I.-H. Yoon, H.-M. Yang, and I. Kim, "Novel two-step process for remediation of Cs-contaminated soil assisted by magnetic composites," *Chem. Eng. J.*, vol. 424, p. 130554, Nov. 2021, doi: 10.1016/j.cej.2021.130554.



- [19] M. Borghei, R. Arjmandi, and R. Moogouei, "Potential of *Calendula alata* for phytoremediation of stable cesium and lead from solutions," *Environ. Monit. Assess.*, vol. 181, no. 1–4, pp. 63–68, Oct. 2011, doi: 10.1007/s10661-010-1813-9.
- [20] Internationale Atomenergie-Organisation, *Handbook of parameter values for the prediction of radionuclide transfer in terrestrial and freshwater environments*. in Technical reports series, no. 472. Vienna: Internat. Atomic Energy Agency, 2010.
- [21] T. B. Saputro, N. Alfiah, and D. Fitriani, "Pertumbuhan tanaman sengon (*paraserianthes falcataria* L.) Terinfeksi mikoriza pada lahan tercemar Pb.," *J. Sos. Hum.*, vol. 9, no. 2, p. 207, Nov. 2016, doi: 10.12962/j24433527.v9i2.1684.
- [22] H. A. M. Amalia, A. Chairunnas, and A. P. Nugroho, "Phytoremediation of nickel by *Paraserianthes falcataria* with varying levels of manure," *J. Biolokus*, vol. 6, no. 1, p. 88, Jun. 2023, doi: 10.30821/biolokus.v6i1.2118.
- [23] 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," *Appl. Sci.*, vol. 11, no. 11, p. 5210, Jun. 2021, doi: 10.3390/app11115210.
- [24] Pemerintah Indonesia, "Peraturan Pemerintah Republik Indonesia Nomor 61 Tahun 2013 Tentang Pengelolaan Limbah Radioaktif." Presiden Republik Indonesia, Jakarta, 2013.
- [25] IAEA, *Classification of Radioactive Waste, General Safety Guide*. Vienna: IAEA, 2009.
- [26] BAPETEN, "Peraturan Kepala Badan Pengawas Tenaga Nuklir Nomor 8 Tahun 2016 Tentang Pengolahan Limbah Radioaktif Tingkat Rendah Dan Tingkat Sedang." BAPETEN, Jakarta, 2016.
- [27] N. Rosin, *Mining Environmental Management*, 3rd ed., vol. 3. The Mining Journal Limited, Edenbridge, 1995.
- [28] O. Timothy, "Introduction to Phytoremediation," *Natl. Risk Manag. Res. Lab. Off. Res. Dev. US Environ. Prot. Agency*, Ohio, 2000.
- [29] S. Chatterjee, A. Mitra, S. Datta, and V. Veer, "Phytoremediation Protocols: An Overview," in *Plant-Based Remediation Processes*, vol. 35, D. K. Gupta, Ed., in *Soil Biology*, vol. 35. , Berlin, Heidelberg: Springer Berlin Heidelberg, 2013, pp. 1–18. doi: 10.1007/978-3-642-35564-6_1.



- [30] M. Rafati, N. Khorasani, and F. Moattar, "Phytoremediation Potential of *Populus Alba* and *Morus alba* for Cadmium, Chromium and Nickel Absorption from Polluted Soil," *Int. J. Environ. Res.*, 5(4):961-970, Autumn, 2011
- [31] A. P., "Phytoremediation of heavy metals: A green technology," *Afr. J. Biotechnol.*, vol. 11, no. 76, Sep. 2012, doi: 10.5897/AJB12.459.
- [32] A. Rahmadina and A. Salamah, "Akumulasi Timbal (Pb) dan Kadmium (Cd) pada *Eclipta prostrata*, *Synedrella nodiflora*, dan *Tridax procumbens*," *Fak. Mat. Dan Ilmu Pengetah. Alam Univ. Indones. Depok.* 16424, vol. 03, 2019.
- [33] K. Sekabira, H. Oryem, and T. A. Basamba, "Heavy metal phytoremediation by *Commelina benghalensis* (L) and *Cynodon dactylon* (L) growing in Urban stream sediments," *Dep. Environ. Sch. Eng. Appl. Sci. Kampala Int. Univ. Kampala Uganda*, Jun. 2011.
- [34] B. V. Tangahu, S. R. Sheikh Abdullah, H. Basri, M. Idris, N. Anuar, and M. Mukhlisin, "A Review on Heavy Metals (As, Pb, and Hg) Uptake by Plants through Phytoremediation," *Int. J. Chem. Eng.*, vol. 2011, pp. 1–31, 2011, doi: 10.1155/2011/939161.
- [35] K. L. Njoku and S. O. Nwani, "Phytoremediation of heavy metals contaminated soil samples obtained from mechanic workshop and dumpsite using *Amaranthus spinosus*," *Sci. Afr.*, vol. 17, p. e01278, Sep. 2022, doi: 10.1016/j.sciaf.2022.e01278.
- [36] Feller, Anders, and Wei, "Distribution and Redistribution of ¹⁰⁹Cd and ⁶⁵Zn in the Heavy Metal Hyperaccumulator *Solanum nigrum* L.: Influence of Cadmium and Zinc Concentrations in the Root Medium," *Plants*, vol. 8, no. 9, p. 340, Sep. 2019, doi: 10.3390/plants8090340.
- [37] S. L. Brown, R. L. Chaney, J. S. Angle, and A. J. M. Baker, "Zinc and Cadmium Uptake by Hyperaccumulator *Thlaspi caerulescens* Grown in Nutrient Solution," *Soil Sci. Soc. Am. J.*, vol. 59, no. 1, pp. 125–133, Jan. 1995, doi: 10.2136/sssaj1995.03615995005900010020x.
- [38] H. Krisnawati, E. Varis, M. H. Kallio, and M. Kanninen, "Paraserianthes falcataria (L.) Nielsen : ekologi, silvikultur dan produktivitas". Center for International Forestry Research, Bogor, 2011.
- [39] I. Soerianegara, Ed., *Plant resources of South-East Asia. 5,1: Timber trees: major commercial timbers / I. Soerianegara ... (ed.)*. Wageningen: Pudoc, 1993.
- [40] S. R. Utami and E. Handayanto, "Fitoremediasi Tanah Tercemar Merkuri Menggunakan *Lindernia Crustacea*, *Digitalia Radicosaa*, Dan *Cyperus*



Rotundus Serta Pengaruhnya Terhadap Pertumbuhan Dan Produksi Tanaman Jagung,” *J. Tanah Dan Sumberd. Lahan*, vol. 1, no. 2, Art. no. 2, 2014.

- [41] IAEA, *Soil sampling for environmental contaminants*. Vienna, Austria: IAEA, 2004.
- [42] A. T. Hapsari, S. Darmanti, and E. D. Hastuti, “Pertumbuhan Batang, Akar dan Daun Gulma Katumpangan (*Pilea microphylla* (L.) Liebm.),” *Bul. Anat. Dan Fisiol.*, vol. 3, no. 1, p. 79, Feb. 2018, doi: 10.14710/baf.3.1.2018.79-84.
- [43] L. Baskorowati, *Budidaya Sengon Unggul Falcataria Molluscana Untuk Pengembangan Hutan Rakyat*, I. Bogor, Jawa Barat, Indonesia: PT Penerbit IPB Press, 2014.
- [44] M. Yusuf, “Pengaruh Berbagai Media Tanam Terhadap Pertumbuhan Bibit Tanaman Kakao (*Theobroma cacao*. L),” *Jur. Budid. Tanam. Perkeb. Politek. Pertan. Negeri Pangkajene Dan Kepul. Sulawesi Selatan*, 2015.
- [45] N. L. Widyasari, “Kajian Tanaman Hiperakumulator Pada Teknik Remediasi Lahan Tercemar Logam Berat,” *J. Ecocentrism*, vol. 1, no. 1, pp. 17–24, Feb. 2021, doi: 10.36733/jeco.v1i1.1748.
- [46] R. W. Permatasari Putri, P. L. Hariani, and Z. Arifin, “Biokonsentrasi Faktor (BCF) dan Faktor Translokasi (TF) Purun tikus (*Eleocharis dulcis*) dalam Fitoremediasi Air Asam Tambang,” *J. Pengendali. Pencemaran Lingkung. JPPL*, vol. 5, no. 1, pp. 76–82, Apr. 2023, doi: 10.35970/jppl.v5i1.1832.
- [47] E. Handayanto and B. D. Krisnayanti, “Potensi Pohon Lokal untuk Fitostabilisasi Logam Berat pada Tanah Tercemar Limbah Sianidasi Emas di Lombok Barat,” *Univ. Sriwij.*, vol. 4, 2015.
- [48] IAEA, *Selection of Technical Solutions for the Management of Radioactive Waste*. Vienna: IAEA, 2017.
- [49] M.-T. Ménager, J. Garnier-Laplace, and M. Goyffon, *Toxicologie nucléaire environnementale et humaine*. Paris Cachan: Éd. Tec & doc Éd. médicales internationales, 2009.

