

References

- Akimzhanova, Z. and Guney, M. (2022), "Bioaccessibility of potentially toxic elements in toys and children's jewelry", *Curr. Opin. Environ. Sci. Health*, **30**, 100397. <https://doi.org/10.1016/j.coesh.2022.100397>.
- Al-Ghouti, M.A. and Da'ana, D.A. (2020), "Guidelines for the use and interpretation of adsorption isotherm models: A review", *J. Hazard. Mater.*, **393**, 122383. <https://doi.org/10.1016/j.jhazmat.2020.122383>.
- Azeez, M., Adesanwo, O. and Adepetu, J. (2015), "Effect of copper (Cu) application on soil available nutrients and uptake", *Afr. J. Agric. Res.*, **10**(5), 359-364. <https://doi.org/10.5897/AJAR2014.9010>.
- Benhafsa, F.M., Bouchama, A., Chadli, A., Tadjer, B. and Addad, D. (2022), "Comparative study of Pb (II) adsorption from water on used cardboard and powdered activated carbon", *Membr. Water Treat.*, **13**(2), 73-83. <https://doi.org/10.12989/mwt.2022.13.2.073>.
- Brennecke, D., Duarte, B., Paiva, F., Caçador, I. and Canning-Clode, J. (2016), "Microplastics as vector for heavy metal contamination of the marine environment", *Estuar. Coast. Shelf Sci.*, **178**, 189-195. <https://doi.org/10.1016/j.ecss.2015.12.003>.
- Corradini, F., Meza, P., Eguiluz, R., Casado, F., Huerta-Lwanga, E. and Geissen, V. (2019), "Evidence of microplastic accumulation in agricultural soils from sewage sludge disposal", *Sci. Total Environ.*, **671**, 411-420. <https://doi.org/10.1016/j.scitotenv.2019.03.368>.
- Dissanayake, P.D., Kim, S., Sarkar, B., Oleszczuk, P., Sang, M.K., Haque, M.N., Ahn, J.H., Bank, M.S. and Ok, Y.S. (2022), "Effects of microplastics on the terrestrial environment: A critical review", *Environ. Res.*, **209**, 112734. <https://doi.org/10.1016/j.envres.2022.112734>.
- El Nemr, A., Khaled, A., Abdelwahab, O. and El-Sikaily, A. (2008), "Treatment of wastewater containing toxic chromium using new activated carbon developed from date palm seed", *J. Hazard. Mater.*, **152**(1), 263-275. <http://doi.org/10.1016/j.jhazmat.2007.06.091>.
- FAO (2021), "Assessment of Agricultural Plastics and Their Sustainability—A Call for Action", Food and Agriculture Organization of the United Nations, Rome.
- Fred-Ahmadu, O.H., Bhagwat, G., Oluyoye, I., Benson, N.U., Ayejuyo, O.O. and Palanisami, T. (2020), "Interaction of chemical contaminants with microplastics: Principles and perspectives", *Sci. Total Environ.*, **706**, 135978. <https://doi.org/10.1016/j.scitotenv.2019.135978>.
- Gao, F., Li, J., Sun, C., Zhang, L., Jiang, F., Cao, W. and Zheng, L. (2019), "Study on the capability and characteristics of heavy metals enriched on microplastics in marine environment", *Mar. Pollut. Bull.*, **144**, 61-67. <https://doi.org/10.1016/j.marpolbul.2019.04.039>.
- Gao, H., Liu, Q., Yan, C., Mancl, K., Gong, D., He, J. and Mei, X. (2022), "Macro-and/or microplastics as an emerging threat effect crop growth and soil health", *Resour. Conserv. Recycl.*, **186**, 106549. <https://doi.org/10.1016/j.resconrec.2022.106549>.
- Guo, X., Hu, G., Fan, X. and Jia, H. (2020), "Sorption properties of cadmium on microplastics: the common practice experiment and a two-dimensional correlation spectroscopic study", *Ecotoxicol Environ. Saf.*, **190**, 110118. <https://doi.org/10.1016/j.ecoenv.2019.110118>.
- Hahladakis, J.N., Velis, C.A., Weber, R., Iacovidou, E. and Purnell, P. (2018), "An overview of chemical additives present in plastics: Migration, release, fate and environmental impact during their use, disposal and recycling", *J. Hazard. Mater.*, **344**, 179-199. <https://doi.org/10.1016/j.jhazmat.2017.10.014>.
- Hur, J. and Jho, E.H. (2021), "Current research trends on the effects of microplastics in soil environment using earthworms: Mini-review", *J. Korean Soc. Environ. Eng.*, **43**(4), 299-306. <https://doi.org/10.4491/KSEE.2021.43.4.299>.
- Hwang, K. (2016), "Agricultural benefits and soil pollution of plastic mulching", Korean Institute of Science and Technology Information.
- Ju, W., An, J. and Jho, E. (2021), "Adsorption characteristics of Cd and Pb on microplastic films generated in agricultural environment", *J. Korean Soc. Environ. Eng.*, **43**(1), 32-42. <https://doi.org/10.4491/KSEE.2021.43.1.32>.
- Kim, S., Jo, E.H. and Choi, S. (2022), "Microplastic release from damaged commercial teabags", *Membr. Water Treat.*, **13**(1), 21-28. <https://doi.org/10.12989/mwt.2022.13.1.021>.
- Koelmans, A.A., Besseling, E. and Foekema, E.M. (2014), "Leaching of plastic additives to marine organisms", *Environ. Pollut.*, **187**, 49-54. <https://doi.org/10.1016/j.envpol.2013.12.013>.
- Kumar, R., Verma, S., Harwani, G., Paridar, D. and Mishra, S. (2022), "Adsorptive and kinetic studies of toxic metal ions from contaminated water by functionalized silica", *Membr. Water Treat.*, **13**(5), 227-233. <https://doi.org/10.12989/mwt.2022.13.5.227>.
- Lin, Z., Hu, Y., Yuan, Y., Hu, B. and Wang, B. (2021), "Comparative analysis of kinetics and mechanisms for Pb(II) sorption onto three kinds of microplastics", *Ecotoxicol. Environ. Saf.*, **208**, 111451. <https://doi.org/10.1016/j.ecoenv.2020.111451>.
- Öz, N., Kadizade, G. and Yurtsever, M. (2019), "Investigation of heavy metal adsorption on microplastics", *Appl. Ecol. Environ. Res.*, **17**(4), 7301-7310. http://doi.org/10.15666/aeer/1704_73017310.
- Park, H., Singhal, N. and Jho, E.H. (2015), "Lithium sorption properties of HMnO in seawater and wastewater", *Water Res.*, **87**, 320-327. <https://doi.org/10.1016/j.watres.2015.09.032>.
- Sparks, D.L. (2003), *Environmental Soil Chemistry*, 1st Ed., Academic Press Inc., San Diego, California, U.S.A.
- Statistics Korea (2022), Agricultural waste vinyl generation 2004-2020; Statistics Korea, Daejeon, South Korea.
- Turner, A. and Filella, M. (2017), "Bromine in plastic consumer products—Evidence for the widespread recycling of electronic waste". *Sci. Total Environ.*, **601**, 374-379. <https://doi.org/10.1016/j.scitotenv.2017.05.173>.
- Turner, A. and Filella, M. (2021), "Hazardous metal additives in plastics and their environmental impacts", *Environ. Int.*, **156**, 106622. <https://doi.org/10.1016/j.envint.2021.106622>.
- Vargas, A.M., Cazetta, A.L., Martins, A.C., Moraes, J.C., Garcia, E.E., Gauze, G.F., Costa, W.F. and Almeida, V.C. (2012), "Kinetic and equilibrium studies: Adsorption of food dyes Acid Yellow 6, Acid Yellow 23, and Acid Red 18 on activated carbon from flamboyant pods", *Chem. Eng. J.*, **181**, 243-250. <https://doi.org/10.1016/j.cej.2011.11.073>.
- Wang, C., Zhao, J. and Xing, B. (2021), "Environmental source, fate, and toxicity of microplastics", *J. Hazard. Mater.*, **407**, 124357. <https://doi.org/10.1016/j.jhazmat.2020.124357>.
- Zhang, S., Han, B., Sun, Y. and Wang, F. (2020), "Microplastics influence the adsorption and desorption characteristics of Cd in an agricultural soil", *J. Hazard. Mater.*, **388**, 121775. <https://doi.org/10.1016/j.jhazmat.2019.121775>.
- Zhu, F., Yan, Y., Doyle, E., Zhu, C., Jin, X., Chen, Z., Wang, C., He, H., Zhou, D. and Gu, C. (2022), "Microplastics altered soil microbiome and nitrogen cycling: The role of phthalate plasticizer", *J. Hazard. Mater.*, **427**, 127944. <https://doi.org/10.1016/j.jhazmat.2021.127944>.