

- Abdelkrim, S., Jebara, S. H., Saadani, O., Chiboub, M., Abid, G., Mannai, K., & Jebara, M. (2019). Heavy metal accumulation in *Lathyrus sativus* growing in contaminated soils and identification of symbiotic resistant bacteria. *Archives of microbiology*, 201(1), 107-121.
- Ajjah, N., Fiodor, A., Pandey, A. K., Rana, A., & Pranaw, K. (2023). Plant growth-promoting bacteria (PGPB) with biofilm-forming ability: a multifaceted agent for sustainable agriculture. *Diversity*, 15(1), 112.
- Ajmal, A. W., Yasmin, H., Hassan, M. N., Khan, N., Jan, B. L., & Mumtaz, S. (2022). Heavy metal-resistant plant growth-promoting *Citrobacter werkmanii* strain WWN1 and *Enterobacter cloacae* strain JWM6 enhance wheat (*Triticum aestivum* L.) growth by modulating physiological attributes and some key antioxidants under multi-metal stress. *Frontiers in Microbiology*, 13, 815704.
- Ali, H., Khan, E., & Ilahi, I. (2019). Environmental chemistry and ecotoxicology of hazardous heavy metals: environmental persistence, toxicity, and bioaccumulation. *Journal of chemistry*, 2019(1), 6730305.
- Ali, I., Khan, A., Ahmad, W., Safdar, Z., Uzair, M., & Khan, M. (2020). Heavy metals (Lead and Cadmium) concentration in different organs of mahseer (*Tor putitora*) of river Indus at Swabi, KPK, Pakistan. *Pure and Applied Biology*, 9(4), 2158-2166.
- Bian, F., Zhong, Z., Li, C., Tanveer, A., Anand, G., Yadav, S., ... & Huang, Z. (2023). Intercropping improves heavy metal phytoremediation efficiency through changing properties of rhizosphere soil in bamboo plantation. *Journal of Hazardous Materials*, 416, 125898.
- Blake, C., Christensen, M. N., & Kovács, Á. T. (2021). Molecular aspects of plant growth promotion and protection by *Bacillus subtilis*. *Molecular Plant-Microbe Interactions*, 34(1), 15-25.
- Bruno, L. B., Anbuganesan, V., Karthik, C., Kumar, A., Banu, J. R., Freitas, H., & Rajkumar, M. (2021). Enhanced phytoextraction of multi-metal contaminated soils under increased atmospheric temperature by bioaugmentation with plant growth promoting *Bacillus cereus*. *Journal of Environmental Management*, 289, 112553.
- Burges, A., Epelde, L., Blanco, F., Becerril, J. M., & Garbisu, C. (2017). Ecosystem services and plant physiological status during endophyte-assisted phytoremediation of metal contaminated soil. *Science of the Total Environment*, 584, 329-338.
- Chen, X., Chu, S., Chi, Y., Wang, J., Wang, R., You, Y., ... & Jiang, J. (2023). Unraveling the role of multi-walled carbon nanotubes in a corn-soil system: Plant growth, oxidative stress and heavy metal (loid)s behavior. *Plant Physiology and Biochemistry*, 200, 107802.
- Chettri, D., Verma, A. K., Chirania, M., & Verma, A. K. (2024). Metagenomic approaches in bioremediation of environmental pollutants. *Environmental Pollution*, 363, 125297.
- Chi, Y., Huang, Y., Wang, J., Chen, X., Chu, S., Hayat, K., ... & Zhang, D. (2020). Two plant growth promoting bacterial *Bacillus* strains possess different mechanisms in adsorption and resistance to cadmium. *Science of the total environment*, 741, 140422.
- Coleman, N., Castrejon, A., Blaine, C., & Chemmachel, T. (2017). The toxicology of essential and nonessential metals. *Lulu.com*.
- Dobhal, K., Carg, R., & Mukhoupadhyay, S. (2025). A Review on Adaption of Microbiomes to Polynuclear Aromatic Hydrocarbons: An Alternate Approach to Environment Sustainability. *Recent Patents on Biotechnology*.
- Du, S., Lu, Q., Liu, L., Wang, Y., & Li, J. (2022). *Rhodococcus qingshengii* facilitates the phytoextraction of Zn, Cd, Ni, and Pb from soils by *Sedum alfredii* Hance. *Journal of Hazardous Materials*, 424, 127638.
- Dutta, A., Patra, A., Jatav, H. S., Jatav, S. S., Singh, S. K., Sathyanarayana, E., ... & Singh, P. (2020). Toxicity of cadmium in soil-plant-human continuum and its bioremediation techniques. *Soil contamination-threats and sustainable solutions*, 22.
- Dwivedi, S., Gupta, S., Chakraborty, A., Anand, G., Yadav, S., & Yadav, D. (2023). Mining of novel microbial enzymes using metagenomics approach for efficient bioremediation: an overview. *Genomics approach to bioremediation: principles, tools, and emerging technologies*, 183-198.
- El Rasafi, T., Oukarroum, A., Haddioui, A., Song, H., Kwon, E. E., Bolan, N., ... & Rinklebe, J. (2022). Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. *Critical Reviews in Environmental Science and Technology*, 52(5), 675-726.
- Elnahas, M. O., Hou, L., Wall, J. D., & Majumder, E. L. W. (2021). Bioremediation potential of *Streptomyces* sp. MOE6 for toxic metals and oil. *Polysaccharides*, 2(1), 47-68.
- Farhat, F., Arfan, M., Wang, X., Tariq, A., Kamran, M., Tabassum, H. N., ... & Elansary, H. O. (2022). The impact of bio-stimulants on Cd-stressed wheat (*Triticum aestivum* L.): Insights into growth, chlorophyll fluorescence, Cd accumulation, and osmolyte regulation. *Frontiers in Plant Science*, 13, 850567.
- Fatima, G., Raza, A. M., Hadi, N., Nigam, N., & Mahdi, A. A. (2019). Cadmium in human diseases: It's more than just a mere metal. *Indian Journal of Clinical Biochemistry*, 34(4), 371-378.
- Fernández, L., Castaño, C., García, P., Saran, A., Lorda, G., & Merini, L. (2023). Isolation and characterization of plant growth promoting bacteria (PGPB) from *Larrea divaricata* Cav., with potential use in phytoremediation of mining soils. *Environmental Sustainability*, 6(2), 271-281.
- Fishman, L., Modak, A., Nechooshtan, G., Razin, T., Erhard, F., Regev, A., ... & Rabani, M. (2024). Cell-type-specific mRNA transcription and degradation kinetics in zebrafish embryogenesis from metabolically labeled single-cell RNA-seq. *Nature Communications*, 15(1), 3104.
- Fu, L., Su, T., Wei, D., Wu, D., Zhang, G., & Shen, Q. (2022). Copper oxide nanoparticles alleviate cadmium toxicity in cereal crops. *Environmental Science: Nano*, 9(9), 3502-3513.
- Fu, Y., Li, F., Guo, S., & Zhao, M. (2021). Cadmium concentration and its typical input and output fluxes in agricultural soil downstream of a heavy metal sewage irrigation area. *Journal of hazardous materials*, 412, 125203.
- Gök, G., Tulun, Ş., & Çelebi, H. (2024). Mapping of heavy metal pollution density and source distribution of campus soil using geographical information system. *Scientific reports*, 14(1), 1-18.
- Gong, Z., Liu, L., Chou, Z., Deng, S., Tang, J., Xiang, W., ... & Li, Y. (2024). Efficient cadmium-resistant plant growth-promoting bacteria loaded on pig bone biochar has higher efficiency in reducing cadmium phytoavailability and improving maize performance than on rice husk biochar. *Journal of Hazardous Materials*, 479, 135609.
- González-Plaza, J. J., Furlan, C., Rijavec, T., Lapanje, A., Barros, R., Tamayo-Ramos, J. A., & Suarez-Diez, M. (2022). Advances in experimental and computational methodologies for the study of microbial-surface interactions at different omics levels. *Frontiers in Microbiology*, 13, 1006946.
- Grobela, A., Świątek, J., Murtaś, A., & Jaskula, M. (2019). Cadmium-induced oxidative stress in plants, cadmium toxicity, and tolerance in plants: from physiology to remediation. In *Cadmium toxicity and tolerance in plants* (pp. 213-231). Academic Press.
- Gupta, R., Khan, F., Alqahtani, F. M., Hashem, M., & Ahmad, F. (2024). Plant growth-promoting Rhizobacteria (PGPR) assisted bioremediation of Heavy Metal Toxicity. *Applied Biochemistry and Biotechnology*, 196(5), 2928-2956.
- He, J., Zhang, Q., & Achal, V. (2020). Heavy metals immobilization in soil with plant-growth-promoting rhizobacteria and microbial carbonate precipitation in support of radish growth. *Microbiology and Biotechnology Letters*, 48(2), 223-229.
- He, M., Li, Z., Chen, C., & Mei, P. (2022). Impact of soil types and root exudates on cadmium and petroleum hydrocarbon phytoremediation by *Sorghum sudanense*, *Festuca arundinacea*, and *Lolium perenne*. *Frontiers in Ecology and Evolution*, 10, 1036765.
- Huang, R., Cui, X., Luo, X., Mao, P., Zhuang, P., Li, Y., ... & Li, Z. (2021). Effects of plant growth regulator and chelating agent on the phytoextraction of heavy metals by *Pfaffia glomerata* and on the soil microbial community. *Environmental Pollution*, 283, 117159.
- Hussain, S., Irfan, M., Sattar, A., Hussain, S., Ullah, S., Abbas, T., ... & Yang, J. (2022). Alleviation of cadmium stress in wheat through the combined application of boron and biochar via regulating morpho-physiological and antioxidant defense mechanisms. *Agronomy*, 12(2), 434.
- Ijaz, S., Iqbal, J., Abbasi, B. A., Tufail, A., Ullah, Z., Yaseen, T., ... & Iqbal, R. (2024). Heavy metal-polluted arable land and its consequences: A global scenario. In *Biochar-assisted remediation of contaminated soils under changing climate* (pp. 71-99). Elsevier.
- Jabeen, Z., Irshad, F., Habib, A., Hussain, N., Sajjad, M., Mumtaz, S., ... & Hassan, M. N. (2022). Alleviation of cadmium stress in rice by inoculation of *Bacillus cereus*. *PeerJ*, 10, e13131.
- Jain, D., Kour, R., Bhojiya, A. A., Meena, R. H., Singh, A., Mohanty, S. R., ... & Ameta, K. D. (2020). Zinc tolerant plant growth promoting bacteria alleviates phytotoxic effects of zinc on maize through zinc immobilization. *Scientific reports*, 10(1), 13865.
- Ke, T., Guo, G., Liu, J., Zhang, C., Tao, Y., Wang, P., ... & Chen, L. (2021). Improvement of the Cu and Cd phytostabilization efficiency of perennial ryegrass through the inoculation of three metal-resistant PGPR strains. *Environmental Pollution*, 271, 116314.
- Khalef, R. N., Hassan, A. I., & Saleh, H. M. (2022). Heavy metal's environmental impact. In *Environmental impact and remediation of heavy metals*. IntechOpen.
- Khanna, K., Kohli, S. K., Ohri, P., Bhardwaj, R., & Ahmad, P. (2022). Agroecotoxicological aspect of Cd in soil-plant system: uptake, translocation and amelioration strategies. *Environmental Science and Pollution Research*, 29(21), 30908-30934.
- Khatun, J., Intekhab, A., & Dhak, D. (2022). Effect of uncontrolled fertilization and heavy metal toxicity associated with arsenic (As), lead (Pb) and cadmium (Cd), and possible remediation. *Toxicology*, 477, 153274.
- Kumar, A., Kumari, N., Singh, A., Kumar, D., Yadav, D. K., Varshney, A., & Sharma, N. (2023). The Effect of Cadmium Tolerant Plant Growth Promoting Rhizobacteria on Plant Growth Promotion and Phytoremediation: A Review. *Current Microbiology*, 80(5).
- Kumar, A., Kumari, N., Singh, A., Kumar, D., Yadav, D. K., Varshney, A., & Sharma, N. (2023). The Effect of Cadmium Tolerant Plant Growth Promoting Rhizobacteria on Plant Growth Promotion and Phytoremediation: A Review. *Current Microbiology*, 80(5).
- Kumar, V., & Thakur, I. S. (Eds.). (2022). *Omics insights in environmental bioremediation*. Singapore: Springer.
- Lata, S., Sharma, S., & Kaur, S. (2023). OMICS approaches in mitigating metal toxicity in comparison to conventional techniques used in cadmium bioremediation. *Water, Air, & Soil Pollution*, 234(3), 148.
- Latif, R., Younas, Z., Ahmad, I., Ahmad, M., & Khurshid, H. (2025). Nanotechnology and soil heavy metal remediation: bridging science and practical solutions. *Environmental Geochemistry and Health*, 47(8), 1-31.
- Li, Q., Deng, Q., Fang, H., Yu, X., Fan, Z., Du, Z., ... & Wilson, J. P. (2022). Factors affecting cadmium accumulation in the soil profiles in an urban agricultural area. *Science of the total environment*, 807, 151027.
- Liu, C., Lin, H., Dong, Y., & Li, B. (2022). Increase of P and Cd bioavailability in the rhizosphere by endophytes promoted phytoremediation efficiency of *Phytolacca acinosa*. *Journal of Hazardous Materials*, 431, 128546.
- Liu, S., Huang, Y., Zheng, Q., Zhan, M., Hu, Z., Ji, H., ... & Zhao, X. (2024). Cd-resistant plant growth-promoting rhizobacteria *Bacillus siamensis* R27 absorbed Cd and reduced Cd accumulation in lettuce (*Lactuca sativa* L.). *Microorganisms*, 12(11), 2321.
- Liu, Z., Bai, Y., Gao, J., & Li, J. (2023). Driving factors on accumulation of cadmium, lead, copper, zinc in agricultural soil and products of the North China Plain. *Scientific Reports*, 13(1), 7429.
- Ma, H., Wei, M., Wang, Z., Hou, S., Li, X., & Xu, H. (2020). Bioremediation of cadmium polluted soil using a novel cadmium immobilizing plant growth promotion strain *Bacillus* sp. TZ5 loaded on biochar. *Journal of hazardous materials*, 388, 122065.
- Madhav, S., Mishra, R., Kumari, A., Srivastav, A. L., Ahamad, A., Singh, P., ... & Sillanpää, M. (2024). A review on sources identification of heavy metals in soil and remediation measures by phytoremediation-induced methods. *International Journal of Environmental Science and Technology*, 21(1), 1099-1120.
- Magar, N. D., Shah, P., Harish, K., Bosamia, T. C., Barbadikar, K. M., Shukla, Y. M., ... & Sundaram, R. M. (2022). Gene expression and transcriptome sequencing: basics, analysis, advances. In *Gene expression*. IntechOpen.
- Mallick, I., Ghosh, A., & Ghosh, A. (2019). Microbe-Mediated Removal of Heavy Metals for Sustainable Agricultural Practices. In *Biofertilizers for Sustainable Agriculture and Environment* (pp. 521-544). Cham: Springer International Publishing.
- Meng, Y., Huang, J., Jing, H., Wu, Q., Shen, R., & Zhu, X. (2022). Exogenous abscisic acid alleviates Cd toxicity in *Arabidopsis thaliana* by inhibiting Cd uptake, translocation and accumulation, and promoting Cd chelation and efflux. *Plant Science*, 325, 111464.
- Migliani, R., Parveen, N., Kumar, A., Ansari, M. A., Khanna, S., Rawat, G., ... & Ansari, M. N. (2022). Degradation of xenobiotic pollutants: an environmentally sustainable approach. *Metabolites*, 12(9), 818.
- Mukherjee, P., Dutta, J., Roy, M., Thakur, T. K., & Mitra, A. (2024). Plant growth-promoting rhizobacterial secondary metabolites in augmenting heavy metal (loid) phytoremediation: an integrated green in situ ecorestorative technology. *Environmental Science and Pollution Research*, 31(44), 55851-55894.
- Munir, N., Hanif, M., Abideen, Z., Sohail, M., El-Kelbawy, A., Radicetti, E., ... & Haider, G. (2022). Mechanisms and strategies of plant microbiome interactions to mitigate abiotic stresses. *Agronomy*, 12(9), 2069.
- Nedjimi, B. (2021). Phytoremediation: a sustainable environmental technology for heavy metals decontamination. *SN Applied Sciences*, 3(3), 286.
- Nedjimi, B. (2021). Phytoremediation: a sustainable environmental technology for heavy metals decontamination. *SN Applied Sciences*, 3(3), 286.
- Ngjaja, E. O., Ezenduka, E. V., Ogbo, C. G., Ogbonna, C. U., Jaja, I. F., Ofofatah, A. C., & Okpala, C. O. R. (2021). Detection, distribution and health risk assessment of toxic heavy metals/metalloids, arsenic, cadmium, and lead in goat carcasses processed for human consumption in South-Eastern Nigeria. *Foods*, 10(4), 798.
- Nnaji, N. D., Onyeaka, H., Miri, T., & Ugwa, C. (2023). Bioaccumulation for heavy metal removal: a review. *SN Applied Sciences*, 5(5), 125.
- Nyika, J., & Dinka, M. O. (Eds.). (2023). Global industrial impacts of heavy metal pollution in sub-saharan Africa. IGI Global.
- Orozco-Mosqueda, M. D. C., Santoyo, G., & Glick, B. R. (2023). Recent advances in the bacterial phytohormone modulation of plant growth. *Plants*, 12(3), 606.
- Patil, P., & Sarkar, A. (2022). Omics to Field Bioremediation: Current Status, Challenges, and Future Opportunities. In *Omics for Environmental Engineering and Microbiology Systems* (pp. 1-17). CRC Press.
- Pishchik, V. N., Filippova, P. S., Mirkaya, G. V., Khomyakov, Y. V., Vertebny, V. E., Dubovitskaya, V. I., ... & Chebotar, V. K. (2021). Epiphytic PGPB *Bacillus megaterium* AF11 and *Paenibacillus nicotianae* AF12 improve wheat growth and antioxidant status under Ni stress. *Plants*, 10(11), 2334.
- Priya, A. K., Muruganandam, M., Ali, S. S., & Kornaros, M. (2023). Clean-up of heavy metals from contaminated soil by phytoremediation: A multidisciplinary and eco-friendly approach. *Toxics*, 11(5), 422.
- Qiao, D., Han, Y., & Zhao, Y. (2022). Organic acids in conjunction with various oilseed sunflower cultivars promote Cd phytoextraction through regulating micro-environment in root zone. *Industrial Crops and Products*, 183, 114932.
- Rafieerad, A., Saleth, L. R., Khanahmadi, S., Amiri, A., Alagarsamy, K. N., & Dhingra, S. (2025). Periodic Table of Immunomodulatory Elements and Derived Two[] Dimensional Biomaterials. *Advanced Science*, 12(6), 2406324.
- Raklami, A., Meddich, A., Oufdou, K., & Baslam, M. (2022). Plants—Microorganisms-based bioremediation for heavy metal cleanup: Recent developments, phytoremediation techniques, regulation mechanisms, and molecular responses. *International Journal of Molecular Sciences*, 23(9), 5031.
- Rashid, A., Schutte, B. J., Ulerý, A., Deyholos, M. K., Sanogo, S., Lehnhoff, E. A., & Beck, L. (2023). Heavy metal contamination in agricultural soil: environmental pollutants affecting crop health. *Agronomy*, 13(6), 1521.
- Saeed, Q., Xiukang, W., Haider, F. U., Kučerík, J., Mumtaz, M. Z., Holatko, J., ... & Mustafa, A. (2021). Rhizosphere bacteria in plant growth promotion, biocontrol, and bioremediation of contaminated sites: a comprehensive review of effects and mechanisms. *International journal of molecular sciences*, 22(19), 10529.
- Saengwilai, P., & Meeinkuirt, W. (2021). Cadmium (Cd) and zinc (Zn) accumulation by Thai rice varieties and health risk assessment in a Cd-Zn co-contaminated paddy field: effect of soil amendments. *Environmental Geochemistry and Health*, 43(9), 3659-3674.
- Sanchez, P. H. G., de Melo, N. C., Porcari, A. M., & de Carvalho, L. M. (2024). Integrating molecular perspectives: Strategies for comprehensive multi-omics integrative data analysis and machine learning applications in transcriptomics, proteomics, and metabolomics. *Biology*, 13(11), 848.
- Satrio, R. D., Fendiyanto, M. H., & Miftahudin, M. (2024). Tools and techniques used at global scale through genomics, transcriptomics, proteomics, and metabolomics to investigate plant stress responses at the molecular level. In *Molecular dynamics of plant stress and its management* (pp. 555-607). Singapore: Springer Nature Singapore.
- Sharma, J. K., Kumar, N., Singh, N. P., & Santal, A. R. (2023). Phytoremediation technologies and their mechanism for removal of heavy metal from contaminated soil: An approach for a sustainable environment. *Frontiers in Plant Science*, 14, 1076876.
- Singh, D., Geat, N., Mehriya, M., Rajawat, M. V. S., Prasanna, R., Kumar, A., ... & Jha, M. N. (2021). Omics (genomics, proteomics, metabolomics, etc.) tools to study the environmental microbiome and bioremediation. In *Waste to energy: prospects and applications* (pp. 235-260). Singapore: Springer Singapore.
- Singh, P., Siddiqui, H., Sami, F., Arif, Y., Bajguz, A., & Hayat, S. (2020). Cadmium: A threatening agent for plants. In *Plant responses to soil pollution* (pp. 59-88). Singapore: Springer Singapore.
- Sonone, S. S., Jadhav, S., Sankhla, M. S., & Kumar, R. (2020). Water contamination by heavy metals and their toxic effect on aquaculture and human health through food Chain. *Lett. Appl. NanoBioScience*, 10(2), 2148-2166.
- Tennakoon, A., Galahitigama, H., Samarakoon, S. M. A. B. K., Perera, I. J. J. U. N., Thakshila, G. P. G. I., Thiruketheeswaranathan, S., ... & Bellanthudawa, B. K. A. (2025). Remediating contaminated environmental systems: the role of plants in cadmium removal. *International Journal of Phytoremediation*, 27(7), 896-915.
- Tiwari, S., Yadav, D., & Sarangi, B. K. (2023). Bioaugmentation of metal phytoremediation through plant-microbe interaction. In *Metagenomics to Bioremediation* (pp. 595-616). Academic Press.
- Tomza-Marciniak, A., Pilarczyk, B., Marciniak, A., Udala, J., Bąkowska, M., & Pilarczyk, R. (2019). Cadmium, Cd. In *Mammals and Birds as Bioindicators of Trace Element Contaminations in Terrestrial Environments: An Ecotoxicological Assessment of the Northern Hemisphere* (pp. 483-532). Cham: Springer International Publishing.
- Waheed, A., Haxim, Y., Islam, W., Ahmad, M., Ali, S., Wen, X., ... & Zhang, D. (2022). Impact of cadmium stress on growth and physio-biochemical attributes of *Eruca sativa* Mill. *Plants*, 11(21), 2981.
- Wang, H., Wang, S., He, X., Xie, M., Cai, M., Zhu, Y., & Du, S. (2023). A promising product: Abscisic acid-producing bacterial agents for restricting cadmium enrichment in field vegetable crops. *Food Chemistry: X*, 19, 100795.
- Wang, P., Chen, H., Kopittke, P. M., & Zhao, F. J. (2019). Cadmium contamination in agricultural soils of China and the impact on food safety. *Environmental pollution*, 249, 1038-1048.
- Wang, Y., Narayanan, M., Shi, X., Chen, X., Li, Z., Natarajan, D., & Ma, Y. (2022). Plant growth-promoting bacteria in metal-contaminated soil: Current perspectives on remediation mechanisms. *Frontiers in Microbiology*, 13, 966226.
- Wani, A. K., Dhanjal, D. S., Akhtar, N., Chopra, C., Goyal, A., & Singh, R. (2022). Role of genomics, metagenomics, and other meta-omics approaches for expunging the environmental contaminants by bioremediation. In *Omics for Environmental Engineering and Microbiology Systems* (pp. 19-51). CRC Press.
- Wasana, H. M., Perera, G. D., Gunawardena, P. D. S., Fernando, P. S., & Bandara, J. (2017). WHO water quality standards Vs Synergic effect (s) of fluoride, heavy metals and hardness in drinking water on kidney tissues. *Scientific Reports*, 7(1), 42516.
- Wu, S., Zhou, Z., Zhu, L., Zhong, L., Dong, Y., Wang, G., & Shi, K. (2022). Cd immobilization mechanisms in a *Pseudomonas* strain and its application in soil Cd remediation. *Journal of Hazardous Materials*, 425, 127919.
- Wu, Y., Santos, S. S., Vestergård, M., González, A. M. M., Ma, L., Feng, Y., & Yang, X. (2022). A field study reveals links between hyperaccumulating *Sedum* plants-associated bacterial communities and Cd/Zn uptake and translocation. *Science of the Total Environment*, 805, 150400.
- Xing, Q., Cao, X., Tan, C., Sun, L., Deng, Y., Yang, J., & Tu, C. (2023). Effects of single and combined applications of three root exudates of *Sedum plumbizincicola* on the phytoremediation efficiency of paddy soil contaminated with Cd. *Frontiers in Environmental Science*, 10, 1086753.
- Yang, L., Ma, X., Wang, J., Zhang, K., Yang, Z., Li, J., ... & Fan, M. (2024). Temporal dynamics of rhizosphere bacterial community in the *Robinia pseudoacacia*–*Mesorhizobium loti* symbiotic system for remediation of cadmium-contaminated soils. *Applied Soil Ecology*, 198, 105375.
- Yao, X., Chen, P., Cheng, T., Sun, K., Megharaj, M., & He, W. (2021). Inoculation of *Bacillus megaterium* strain A14 alleviates cadmium accumulation in peanut: effects and underlying mechanisms. *Frontiers in Microbiology*, 131(2), 819-832.
- Zeng, R., Liu, H., Hong, Z., Wang, X., Cheng, S., Xu, J., & Dai, Z. (2024). Co-inoculation effects of *B. licheniformis* and *P. aeruginosa* on soil Cd and As availability and rice accumulation. *Journal of Environmental Management*, 351, 119739.
- Zhang, L., Chen, F., Zeng, Z., Xu, M., Sun, F., Yang, L., ... & Xie, Y. (2021). Advances in metagenomics and its application in environmental microorganisms. *Frontiers in microbiology*, 12, 766364.
- Zhang, Y., Zhao, S., Liu, S., Peng, J., Zhang, H., Zhao, Q., ... & Chen, C. (2022). Enhancing the phytoremediation of heavy metals by combining hyperaccumulator and heavy metal-resistant plant growth-promoting bacteria. *Frontiers in Plant Science*, 13, 912350.
- Zhao, H., Guan, J., Liang, Q., Zhang, X., Hu, H., & Zhang, J. (2021). Effects of cadmium stress on growth and physiological characteristics of safflower seedlings. *Scientific reports*, 11(1), 9913.
- Zhao, Q., Zhang, H., Zhang, Z., Chen, Z., & Han, H. (2024). Exogenous inoculation with heavy metal-immobilizing bacteria roused the key rhizosphere bacterial community and metabolites of wheat to inhibit cadmium absorption. *Journal of Environmental Chemical Engineering*, 12(5), 113631.
- Zhou, X., Liu, X., Zhao, J., Guan, F., Yao, D., Wu, N., & Tian, J. (2021). The endophytic bacterium *Bacillus korensis* 181–22 promotes rice growth and alleviates cadmium stress under cadmium exposure. *Applied Microbiology and Biotechnology*, 105(21), 8517-8529.
- Zulfqar, U., Haider, F. U., Maqsood, M. F., Mohy-Ud-Din, W., Shababan, M., Ahmad, M., ... & Shahzad, B. (2023). Recent advances in microbial-assisted remediation of cadmium-contaminated soil. *Plants*, 12(17), 3147.