



Huajun Zhen

Department: School of Resources and Environmental Engineering
Professional field: Environmental Toxicology and Chemistry
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Profile

Education

July 2005, Bachelor of Environmental Science, Peking University.

July 2008, Master of Environmental Science, Peking University.

May 2015, PhD Degree in Environmental Science, Rutgers-The State University of New Jersey.

Working Experience

August 2015-October 2018, Postdoctoral Researcher at US EPA National Exposure Research Laboratory (NERL) in Athens, Georgia.

October 2018-December 2022, Assistant Professor at School of Resources and Environmental Engineering, East China University of Science and Technology

Since 2023, Associated Professor at School of Resources and Environmental Engineering, East China University of Science and Technology

Research Field

- 1.Non-targeted Screening of Environmental Contaminants
2. Environmental Health Effects of Emerging Contaminants
- 3.Development and Application of Environmental Biotechnology for Environmental Surveillance

Research results and main published thesis

- [1]Wu, Y. F.; Nie, Q. Y.; Zheng, J. Y.; Zhen, H. J.*; Xiu, G. L.* Wu Yifan, Nie Qingyu, Zheng Jingyi, Zhen Huajun, Xiu Guangli. Establishment of a Dual Luciferase Reporter Gene Assay for Pregnane X Receptor and Study of Agonistic Activities of Organophosphate Flame Retardants. Asian Journal of Ecotoxicology, 2023, 18(2): 33-43. (in Chinese)
- [2]Ma, L.; Sun, D. X.; Zhen, H. J.*; Xiu, G. L.* Weighted Gene Co-Expression Network Analysis on Proteomics of Exhaled Breath Condensate Based on Data-Independent Acquisition. Journal of East China University of Science and Technology, 2022, 48(5): 1-8. (in Chinese)
- [3]Zhen, H. J.*; Teng, Q.; Mosley, J. D.; Collette, T. W.; Yue, Y.; Bradley, P. M.; Ekman, D. R.* Untargeted Lipidomics for Determining Cellular and Subcellular Responses in Zebrafish (Danio rerio) Liver Cells Following Exposure to Complex Mixtures in US Streams. Environmental Science & Technology, 2021, 55, 8180-8190.
- [4]Yin, Y.; Zhen H. J.*; Xiu, G. L.* Comprehensive evaluation of water quality of Huangpu River using HepG2 cell-based lipidomics approach. Asian Journal of Ecotoxicology, 2021, 16(4): 141-150 (in Chinese)
- [5]Zhen, H. J.*; Ekman, D. R.; Collette, T. W.; Glassmeyer, S. T.; Mills, M. A.; Furlong, E. T.; Kolpin, D. W.; Teng, Q.* Assessing the Impact of Wastewater Treatment Plant Effluent on Downstream Drinkingwater-Source Quality Using a Zebrafish (Danio Rerio) Liver Cell-Based Metabolomics Approach. Water Research, 2018, 145, 198-209.
- [6]Zhen, H. J.; Krumins, V.; Fennell, D. E.; Mainelis, G.* Analysis of Airborne Microbial Communities Using 16S ribosomal RNA: Potential Bias due to Air Sampling Stress. Science of the Total Environment, 2018, 621, 939-947.
- [7]Zhen, H. J.; Krumins, V.; Fennell, D. E.; Mainelis, G.* Development of a Dual-internal-reference Technique to Improve Accuracy When Determining Bacterial 16S rRNA: 16S rRNA Gene Ratio with Application to Escherichia coli Liquid and Aerosol Samples. Journal of Microbiological Methods, 2015, 117, 113-121.
- [8]Zhen, H. J.; Han, T. W.; Fennell, D. E.; Mainelis, G.* A Systematic Comparison of Four Bioaerosol Generators: Affect on Culturability and Cell Membrane Integrity when Aerosolizing Escherichia coli. Journal of Aerosol Science, 2014, 70, 67-79.
- [9]Zhen, H. J.; Du, S. Y.; Rodenburg, L. A.; Mainelis, G.; Fennell, D. E.* Reductive Dechlorination of 1,2,3,7,8-Pentachlorodibenzo-p-dioxin and Aroclor 1260, 1254 and 1242 by a Mixed Culture Containing Dehalococcoides mccartyi strain 195. Water Research, 2014, 52, 51-62.
- [10]Zhen, H. J.; Han, T. W.; Fennell, D. E.; Mainelis, G.* Release of Free DNA by Membrane-Impaired Bacterial Aerosols Due to Aerosolization and Air Sampling. Applied and Environmental Microbiology, 2013, 79, 7780-7789.
- [11]Zhen, H. J.; Wu, X. Q.; Hu, J. Y.*; Xiao, Y.; Yang, M.; Hirotsuji, J.; Nishikawa, J.; Nakanishi, T.; Ike, M. Identification of Retinoic Acid Receptor Agonists in Sewage Treatment Plants. Environmental Science & Technology, 2009, 43, 6611-6616.