

## 个人简介

沈澄，女，博士，副教授，硕士生导师，分别取得德国德累斯顿大学硕士学位和爱尔兰都柏林大学博士学位，主要研究方向包括：微生物燃料电池、污泥的资源化利用、基于人工湿地的水生态修复、新污染物的去除等。近年，主持参与国家自然科学基金、浙江省尖兵领雁项目等多个科研项目。目前在 *Chemical Engineering Journal*, *Science of the Total Environment*, *Water Science and Technology* 等国际知名期刊累计发表 SCI 论文 30 余篇、EI 及核心论文 3 篇。欧洲环境、生态与可持续发展华人学会（CESEES）青年理事。 *Water Research*, *Chemical Engineering Journal* 等多种专业期刊审稿人。  
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### 科研项目：

- 1.国家自然科学基金委员会，青年项目，42403056，人工湿地富铁污泥炭表面生物膜形成及对典型全(多)氟化合物迁移转化的影响机制，2025.01 至 2027.12，30 万元，主持
- 2.浙江省科学技术厅，衢州市/探索项目/探索一般，LZY22B070002，铁污泥生物质炭强化人工湿地全氟化合物去除机理研究，2022-01 至 2024-12，10 万元，主持
- 3.国家自然科学基金委员会，面上项目，22276174，典型微塑料对污泥炭人工湿地反硝化过程的影响及其微生物学机制研究，2023-01-01 至 2026-12-31，54 万元，参与
- 4.浙江省尖兵领雁项目，2025C04017，污水污泥处置减污降碳新路径及其产品在典型新污染物处理中的应用研究，2025.01 至 2027.12，140 万元，参与

### 代表性论文：

S. Zhang, C. Shen\*, F. Zhang, K. Wei, S. Shan, Y. Zhao, Y.B. Man, M.H. Wong, J. Zhang, Microplastics removal mechanisms in constructed wetlands and their impacts on nutrient (nitrogen, phosphorus and carbon) removal: A critical review, *Sci. Total Environ.* 918 (2024) 170654.

J. Wang, C. Shen\*, J. Zhang, G. Lou, S. Shan, Y. Zhao, Y.B. Man, Y. Li\*, Per- and polyfluoroalkyl substances (PFASs) in Chinese surface water: Temporal trends and geographical distribution, *Sci. Total Environ.* 915 (2024) 170127.

F. Zhang, C. Shen\*, Y. Zhao, S. Zhang, Y. Wang, B. Ji, R. Liu, M. Hung Wong, S. Shan, J. Zhang, An integrated constructed wetland-Microbial fuel cell system with sewage sludge-biochar to enhance treatment and energy recovery efficiencies, *Chem. Eng. J.* 486 (2024) 150431.

C. Shen\*, Z. Song, Z. Qiu, R. Gao, Effects of pyrolysis temperature on drinking water treatment residual biochar properties and organophosphorus pesticides adsorption, *Chem. Pap.* 78 (2024) 5289–5299.

C. Shen, L. Su, Y. Zhao, W. Liu, R. Liu, F. Zhang, Y. Shi, J. Wang, Q. Tang, Y. Yang, Y. Bon Man, J. Zhang\*, Plants boost pyrrhotite-driven nitrogen removal in constructed wetlands, *Bioresour. Technol.* 367 (2023) 128240.

H. Bian, C. Shen#, W. Liu, Y.B. Man, M.H. Wong, P. Christie, S. Shan, M. Wang, J. Zhang\*, An improved method of MgFe-layered double hydroxide/biochar composite synthesis, *J. Clean. Prod.* 393 (2023) 136186.

C. Shen\*, Y. Zhao, Y. Li, R. Liu, J. Wang, Y. Yang, Treating carbon-limited wastewater by DWTR and woodchip augmented floating constructed wetlands, *Chemosphere.* 285 (2021) 131331.

C. Shen, Y.Q. Zhao\*, R.B. Liu, D. Morgan, T. Wei, Enhancing wastewater remediation by drinking water treatment residual-augmented floating treatment wetlands, *Sci. Total Environ.* 673 (2019) 230–236.

C. Shen, Y. Zhao\*, W. Li, Y. Yang, R. Liu, D. Morgen, Global profile of heavy metals and semimetals adsorption using drinking water treatment residual, *Chem. Eng. J.* 372 (2019) 1019–1027.