# Yanfu Wei

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# Academic Qualification

Ph.D. in Environmental Science and Engineering, South China University of Technology.

M.S. in Environmental Engineering, Kunming University of Science and Technology.

B.S. in Environmental Engineering, Kunming University of Science and Technology.

### Teaching Area

Environmental Chemistry.

## Research Area

Eutrophication control, environmental mineralogy, carbon sequestration in the ocean, biofuels.

# Working Experience

- (1) Assistant Professor, Macau University of Science and Technology (Jan 2022 -).
- (2) Lecturer, Environmental School, South China Normal University (Sep 2018- Sep 2021).
- (3) Postdoc, Guangzhou Institute of Geochemistry, Chinese Academy of Sciences. (Nov 2015- Aug 2018).

### Awards & Honours/Appointments (Selected)

- 2022- Young council member of the Mineral Materials Committee of the Silicate Society, China
- 2022- Editorial board member of Green and Sustainable Chemistry, a section within Frontiers in Chemistry.
- 2022- Member of the expert committee of the Postgraduate Ideas Competition for Carbon Peaking and Carbon Neutrality in China.
- 2017- Reviewer for journals including Chemical Communications, Applied Clay Science, Mineral, Applied Science, etc.

#### **Research Grants**

- (1) NSFC-INSF, Study on the methods and mechanisms of design of nanotubular halloysite-bimetallic nanohybrid materials for high-efficiency catalytic synthesis of furan-based biofuels, 2022.01-2024.12, PI of sub-project 3.
- (2) NSFC, Phosphorus fixation mechanism of phosphorus-containing vivianite formation and its formation control in Dianchi Lake sediments, 2021.01~2024.12, PI.
- (3) NSFC, Interlayer DOM characteristics, microstructural variation and intercalation mechanisms of clay minerals in lake sediments, 2017.01~2019.12, PI.
- (4) NSFC, A study on the coupling interactions of the ferrous reactivities on mineral surfaces with the environmental purification of arsenic contaminated soils, 2021.01~2024.12, Participation.

- (14). Huang Xiaofeng, Zhou Tao, Qin Yangsong, Gao Kunyang, **Wei Yanfu\***, Synthesis of tetrakis (hydroxymethyl) phosphonium chloride by high-concentration phosphine in industrial off-gas, *Water Science and Technology*, 2013, 68(2):342-347.
- (15). Mai Zitian, **Wei Yanfu\***, Progress of metal oxides and their hydroxides in removing phosphorus from water, *Guangzhou Chemical Industry*, 2021, 14(49):20-21.
- (16). **Wei Yanfu**, Huang xiaofeng, Tan Juan, Wang xiaoni, Gao Kunyang, Zhou Tao, Qin Yangsong, Research progress of phosphine in industrial waste gas, *Materials Reports*, 2011,(S2):415-417+428.
- (17). Liu Hongchang, Yuan Peng, Liu Dong Zhang Weiwei, Tian Qian, Bu Hongling, **Wei Yanfu**, Xia Jinlan, Wang Yinchu, Zhou Junming. Insight into cyanobacterial preservation in shallow marine environments from experimental simulation of cyanobacteria-clay co-aggregation. Chemical Geology, 2021, 577, 120285.
- (18). Shi Jingchun; Li Xiang; Hemi Luan; **Wei Yanfu**; Helong Ren; Pengcheng Chen\*; The health concern of polychlorinated biphenyls (PCBs) in a notorious e-waste recycling site. *Ecotoxicology and Environmental Safety*, 2019, 186, 109817.
- (19). Song Yaran; Yuan Peng \*; **Wei Yanfu**; Liu Dong; Tian Qian; Zhou Junming; Du Peixin; Deng Liangliang; Chen Fanrong; Wu Honghai; Constructing Hierarchically Porous Nestlike Al<sub>2</sub>O<sub>3</sub> MnO<sub>2</sub>@Diatomite Composite with High Specific Surface Area for Efficient Phosphate Removal. *Industrial & Engineering Chemistry Research*, 2019, 58(51), 23166–23174.
- (20). Song Yaran; Yuan Peng\*; Du Peixin; Deng Liangliang; **Wei Yanfu**, Liu Dong; Zhong Xuemin; Zhou Junming; A novel halloysite CeOx nanohybrid for efficient arsenic removal. *Applied Clay Science*, 2020, 186, 105450.
- (21). Deng Liangliang; Yuan Peng \*; Liu Dong; Du Peixin; Zhou Junming; **Wei Yanfu**; Yaran Song; Yaqi Liu; Effects of calcination and acid treatment on improving benzene adsorption performance of halloysite. *Applied Clay Science*, 2019, 181, 105240.
- (22). Liang Xujun; Guo Chuling; Liu Shasha; Dang Zhi; **Wei Yanfu**; Yi Xiaoyun; Stéphane Abele\*; Cosolubilization of phenanthrene and pyrene in surfactant micelles: Experimental and atomistic simulations studies. *Journal of Molecular Liquids*, 2018, 263, 1 9.
- (23). Tong Le; Liu Weiting; Lin Weijia; Guo Chuling\*; Yang Jing; **Wei Yanfu**; Xie Yingying; Shasha Liu; Zhi Dang\*; Biosurfactant rhamnolipid enhanced modification of corn stalk and its application for sorption of phenanthrene. *Water Science & Technology*, 2017, 76(5), 1167–1176.
- (24). Weijia Lin; Guo Chuling\*; Hui Zhang; Xujun Liang; **Wei Yanfu**; Guining Lu; Zhi Dang; Electrokinetic-Enhanced Remediation of Phenanthrene-Contaminated Soil Combined with Sphingomonas sp GY2B and Biosurfactant. *Applied Biochemistry and Biotechnology*, 2016, 178(7), 1325–1338.
- (25). Xujun Liang; Guo Chuling\*; **Wei Yanfu**; Weijia Lin; Xiaoyun Yi; Guining Lu; Zhi Dang\*; Cosolubilization synergism occurrence in codesorption of PAH mixtures during surfactant-enhanced remediation of contaminated soil. *Chemosphere*, 2016, 144, 583–590.

# Conference

- (1) Quantitative assessments of organic matter uncoupling from clay surfaces in presence of salinity, AIPEA XVII international clay conference, Session: Interaction between clay minerals and organic carbon: from natural clay-carbon compound to hybrid materials, 25 29 JULY 2022, Turkey, online. Poster.
- (2) Mechanistic study on the activation of typical 1:1 type clay mineral by lanthanide-based nanoparticles for phosphate adsorption in water, 2019 Users' Annual Academic Conference and Expert Meeting of Beijing Synchrotron Radiation Facility, Session: Diffraction, Scattering and Medium Energy Spectroscopy Society, Dongguan, 2019.8.14-16. Oral Presentations.
- (3) Phenanthrene distribution between carbon nanomaterials and an aqueous phase in the presence of surfactant, The 3rd Asian Clay Conference, Session: Clay and Environment, Guangzhou, 2016.11.18-20. Oral Presentations.