

Curriculum Vitae

Xunfeng Chen, Ph.D

Ph.D, School of Agriculture and biology, Shanghai Jiao Tong University, China

Date of birth: August 6, 1991

Nationality: Chinese

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Research Area:

Agricultural Environment Pollution Control and Bioremediation; Soil remediation; Nanotechnology in Environmental Protection

Education and Working Experience

(1) Education

2009/09–2013/06, Bachelor, Environmental Engineering, Ningbo University

2013/09–2016/06, Master, Environmental Engineering, Hunan University

2017/09–2021, Doctor, Enology, Shanghai Jiao Tong University

(2) Working Experience:

2016/07–2016/12, Institute of Environment and Sustainable Development in Agriculture, Chinese Academy of Agricultural Sciences

Publication:

Xunfeng Chen has published 10 SCI index papers in international journals (e.g. Journal of Hazardous Materials, Chemosphere), 2 papers under review, 8 papers in Chinese core journals and applied 4 Chinese patents.

1) Paper

SCI index papers

- [1] **Xunfeng Chen**, Juncai Wang, Yimin You, Renyuan Wang, Shaohua Chu, Yaowei Chi, Kashif Hayat, Nan Hui, Xinxin Liu, Dan Zhang, Pei Zhou (2021). When nanoparticle and microbes meet: The effect of multi-walled carbon nanotubes on microbial community and nutrient cycling in hyperaccumulator system. **Journal of Hazardous Materials** (Accept). IF2020=10.59
- [2] **Xunfeng Chen**, Juncai Wang, Kashif Hayat, Dan Zhang, Pei Zhou (2021). Small structures with big impact: Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator *Solanum nigrum* L. under cadmium and arsenic stress. **Chemosphere**, 276, 130130. IF2020=7.09
- [3] Jie Feng, Bin Wang, Dan Zhang, Shaohua Chu, Yuee Zhi, Kashif Hayat, Juncai Wang, **Xunfeng Chen**, Nan Hui, Pei Zhou (2021). *Streptomyces griseorubens* JSD-1 promotes rice straw composting efficiency in industrial-scale fermenter: Evaluation of change in physicochemical properties and microbial community. **Bioresource Technology**, 321, 124465.
- [4] Juncai Wang, **Xunfeng Chen**, Shaohua Chu, Kashif Hayat, Yaowei Chi, Yuee Zhi, Dan Zhang & Pei Zhou (2021). Influence of Cd toxicity on subcellular distribution, chemical



- forms, and physiological responses of cell wall components towards short-term Cd stress in *Solanum nigrum*. **Environmental Science and Pollution Research**, 28(11), 13955-13969.
- [5] Saiqa Menhasa, Xijia Yang, Kashif Hayat, Nabeel Khan, Niazic Sikandar, Hayatd Amnae, Tariq Aftabf, Nan Hui, Juncai Wang, **Xunfeng Chen**, Pei Zhou (2021). Targeting Cd coping mechanisms for stress tolerance in *Brassica napus* under spiked-substrate system: from physiology to remediation perspective. **International Journal of Phytoremediation** (Accept)
- [6] Yaowei Chi, Yueyuan Huang, Juncai Wang, **Xunfeng Chen**, Shaohua Chu, Kashif Hayat, Zheng Xu, Hong Xu, Pei Zhou, Dan Zhang (2020). Two plant growth promoting bacterial *Bacillus* strains possess different mechanisms in adsorption and resistance to cadmium. **Science of The Total Environment**, 741, 140422.
- [7] Kashif Hayat, Yuanfei Zhou, Saiqa Menhas, Jochen Bundschuh, Sikandar Hayat, Abid Ullah, Juncai Wang, Xunfeng Chen, Dan Zhang, Pei Zhou (2020). *Pennisetum giganteum*: An emerging salt accumulating/tolerant non-conventional crop for sustainable saline agriculture and simultaneous phytoremediation. **Environmental Pollution**, 265, 114876.
- [8] Juncai Wang, **Xunfeng Chen**, Yaowei Chi, Shaohua Chu, Kashif Hayat, Yuee Zhi, Sikandar Hayat, Dimitar Terziev, Dan Zhang, Pei Zhou (2020). Optimization of NPK fertilization combined with phytoremediation of cadmium contaminated soil by orthogonal experiment. **Ecotoxicology and Environmental Safety**, 189, 109997.
- [9] Xijia Yang, Dan Zhang, Dimitar Terziev, Ralitsa Terziyska, Dongwei Zhang, Yang Liu, **Xunfeng Chen**, Pei Zhou (2019) Colorimetric detection of arsenic (III) in aqueous solution based on aptamer. **Agricultural Sciences/Agrarni Nauki**, 11(25).
- [10] Linjing Deng, Guangming Zeng, Changzheng Fan, **Xunfeng Chen**, Ming Chen, Haipeng Wu, Xiaoxiao He & Yan He (2015). Response of rhizosphere microbial community structure and diversity to heavy metal co-pollution in arable soil. **Applied Microbiology and Biotechnology**, 99(19), 8259-8269.

Research Projects

1. The National Key Research and Development Program of China, The research and demonstration of efficient phytoextraction technology for cadmium and arsenic contaminated soil in facility agriculture, 2016YFD0800807, 2016/01-2021/12, CNY3,520,000. (Participation)

Awards

- 1、 When nanoparticle and microbes meet: The effect of multi-walled carbon nanotubes on microbial community and nutrient cycling in hyperaccumulator system, **Poster**, ACS Fall 2021, USA, August, 2021;
- 2、 Small structures with big impact: Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator *Solanum nigrum* L. under heavy metal(loid)s stress, **Poster**, the 4th National Symposium on Plant Stress Biology, China, June, 2021;
- 3、 When nanoparticles and microbes meet: The effect of multi-walled carbon nanotubes on microbial community in hyperaccumulator system, **Excellent Poster Award**, the 16th National Graduate Students' Environment Forum, China, May, 2021
- 4、 When nanoparticles and microbes meet, **Oral**, the 19th Chinese Young Soil Scientists Academic Conference, China, May, 2021;
- 5、 U21 **Global Citizenship** March 2021;
- 6、 Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator

Solanum nigrum L. under heavy metal(loid)s stress, Agricultural Technology Innovation & Sustainable Development Awards, **The second prize**, Yangtze River Delta Academic Forum of Shanghai Jiao Tong University, China, December, 2020;

- 7、 Multi-walled carbon nanotubes enhanced remediation efficiency in hyperaccumulator *Solanum nigrum* L. under heavy metal(loid)s stress, **Excellent Poster Awards**, Yangtze River Delta Academic Forum of Shanghai Jiao Tong University, China, December, 2020;
- 8、 Mixture Leaching Remediation Technology of Arsenic Contaminated Soil, **Excellent Papers and Patents Awards**, School of Environment Science and Engineering, Hunan University, China, March, 2016.

Academic Appointments

Academic Editor: International Journal of Ecology; Journal of Modern Agriculture and Biotechnology

Reviewer (Peeref Certified Reviewer): Environmental Science and Pollution Research, Cogent-Food & Agriculture, International Journal of Environmental Protection and Policy;

Member, Soil Science Society of China;

Member, China Association of Agricultural Science Societies;

Member, American Chemical Society;

Member, Chinese-American Professors of Environmental Engineering and Science;

Member, International Society for Industrial Ecology