

Curriculum Vitae

Kang Mei, PhD

Recruited Associate Professor at Jiangsu Ocean University

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🎓 Xiamen University, Doctor of Philosophy (2023)

🎓 University of Southern California US, Visiting Scholar (2022)

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🔗 [Research Gate](https://www.researchgate.net/profile/Kang-Mei) : <https://www.researchgate.net/profile/Kang-Mei>

📖 [Google Scholar](https://scholar.google.com/citations?user=joYHrAYAAAAJ&hl=en) : <https://scholar.google.com/citations?user=joYHrAYAAAAJ&hl=en>

🌐 [Academic Homepage](https://meikang.netlify.app): <https://meikang.netlify.app>

PERSONAL DATA

Birthdate: Aug. 1992 Hometown: Tongcheng Anhui, China

RESEARCH INTERESTS

Coastal & Wetland Ecology	Trace elements and heavy metals cycle
Low-weight-molecular organic molecules	Environmental science and pollution ecology
Marine microbial ecology and environment	Marine biogeochemistry and earth sciences

EDUCATION & EXPERIENCES

- 2024.1– Present **Assisitant Professor, Jiangsu Ocean University**
 •Jiangsu Institute of Marine Resources Development & Jiangsu Key Laboratory of Marine Bioresources and Environment, Jiangsu Ocean University, Lianyungang, China
- 2019.9 – 2023.12 **College of Ocean and Earth Sciences, Xiamen University, Xiamen, China**
State Key Laboratory of Marine Environmental Science, Xiamen University
(GPA: 3.56/4.0)
 •**Ph.D. candidate**, Marine Environmental Biogeochemistry (Expected June, 2023)
 •**Advisor:** Professor Deli Wang (deliawang@xmu.edu.cn)
 •**Research project:** Effects of microbial pigments on the diversity and functioning of marine ecosystems.
- 2021.12 – 2023.1 **Marine Environmental Biology, Dornsife College of Letters, Arts and Sciences**
University of Southern California, United States
 •**Visiting Ph.D. student** (13 months)
 •**Advisor:** Professor Sergio Sanudo-Wilhelmy (sanudo@usc.edu)
 Assistant Professor Laura Gomez Consarnau (gomezcon@usc.edu)
 •**Research project:** Laboratory Analysis, Data Arrangement, and Scientific Writing.
- 2018.6 – 2019.6 **College of the Environment and Ecology, Xiamen University, Xiamen, China**
 •**Research assistant**, Institute of Ecological Civilization

- 2015.9 – 2018.6 **College of the Environment and Ecology, Xiamen University, Xiamen, China**
(GPA: 3.17/4.0)
- Master**, Pollution Ecology
 - Advisor**: Associate Professor Jingchun Liu (jingchunliu@xmu.edu.cn)
 - Research project**: Effects of arsenic on the physiological responses of mangrove seedlings.
- 2011.9 – 2015.6 **College of the Ecology & Environment, Hainan Tropical Ocean University, China**
(GPA: 3.46/4.0)
- B.A.** in Ecology
 - Advisor**: Professor Laijun Zhang (ldxyzhlj@126.com)
 - Research project**: Toxic effects and physiological responses of glyphosate on marine worm *Perinereis aibuhitensis*.

PUBLICATIONS

14. Uddin, Mohammad Mazbah, **Kang Mei**, Bin Xie, Li Cunlu, Shengxing Long, and Fuli Xu. (2024). How Does Mangrove Restoration or Reforestation Change Trace Metal Pollution in Mangrove Ecosystems? A Review of Current Knowledge. *Toxics*. 12(11), 812. <https://doi.org/10.3390/toxics12110812>. (IF2024 =4.2, JCR: Q2)
13. Xiaoyu Zhao, Lizhe Cai, Yiyong Rao, Deyuan Yang, Xiping Zhou, Deli Wang, **Kang Mei**. (2024) Comparison of macrozoobenthic communities and environmental variables in the subtidal zones between a nearly closed bay and an open bay, *Regional Studies in Marine Science*. <https://doi.org/10.1016/j.rsma.2024.103464>. (IF2024 =2.1, JCR: Q2)
12. **Kang Mei**, et al. (2024), Dynamics and geochemical responses of dissolved metals (Mn and Cu) in a subtropical estuary, China, *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-023-31387-7>. (IF2024 =5.8, JCR: Q1)
11. **Kang Mei**, et al. (2023), Stimulation of oxalate root exudate in arsenic speciation and fluctuation with phosphate and iron in anoxic mangrove sediment, *Marine Pollution Bulletin*. <https://doi.org/10.1016/j.marpolbul.2023.114823>. (IF2022 = 7.001, JCR: Q1)
10. Guirong Wu, **Kang Mei**, Caimei He, Sujuan Wang, Liling Jiang (2022). Phytoextraction and Antioxidant Defense of Mangrove Seedling (*Kandelia obovata*) to Inorganic Arsenate Exposure. *Water*, <https://doi.org/10.3390/w14040643>. (IF2022 = 3.530, JCR: Q2)
9. Yitong Pan, Deli Wang, **Kang Mei**, Tian Tang (2022). Optimization modeling and mechanism discussion on specific industrial coal-washing wastewater treatment. *International Journal of Environmental Science*, <https://doi.org/10.1007/s13762-022-04738-z>. (IF2022 = 3.519, JCR: Q3)
8. Lide Gu, Xinli Yue, Haowen Zhong, **Mei Kang**, Deli Wang (2022). A new technique of quantifying protoporphyrin IX in microbial cells in seawater, *Frontiers in Marine Science*, <https://doi.org/10.3389/fmars.2022.991126>. (IF2022 = 5.247, JCR: Q1)

7. Zhenli Guo, Jingchun Liu, Jiajia Wu, Dan Yang, **Kang Mei**, Hanyi Li, Haoliang Lu, Chongling Yan. (2022). Spatial heterogeneity in chemical composition and stability of glomalin-related soil protein in the coastal wetlands, *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2022.155351>. (IF2022 = 10.753, JCR: Q1)
6. **Kang Mei**, Deli Wang, Yan Jiang, Mengqiu Shi, Chen-Tung Arthur Chen, Yao Zhang, Kai Tang. (2022). Transformation, Fluxes and Impacts of Dissolved Metals from Shallow Water Hydrothermal Vents on Nearby Ecosystem Offshore of Kueishantao (NE Taiwan), *Sustainability*, <https://doi.org/10.3390/su14031754>. (IF2022 = 5.247, JCR: Q2)
5. **Kang Mei**, Wu, G., Liu, J., Jiajia Wu, Hong, H., Lu, H., Yan, C. (2022). Dynamics of low-molecular-weight organic acids for the extraction and sequestration of arsenic species and heavy metals using mangrove sediments, *Chemosphere*, <https://doi.org/10.1016/j.chemosphere.2021.131820>. (IF2022 = 8.943, JCR: Q1)
4. **Kang Mei**, Jingchun Liu, Jin Fan, Xin Guo, Yi Zhou, Haoliang Lu, Chongling Yan. (2021). Low-level arsenite boosts rhizospheric exudation of low-molecular-weight organic acids from mangrove seedlings (*Avicennia marina*): Arsenic phytoextraction, removal, and detoxification. *Science of the Total Environment*. 775, 145685. <https://doi.org/10.1016/j.scitotenv.2021.145685>. (IF2021 = 10.753, JCR: Q1)
3. **Kang Mei**, Jingchun Liu, Rongrong Shi, Xin Guo, Haoliang Lu, Chongling Yan. (2020). The migrated behavior and bioavailability of arsenic in mangrove sediments affected by pH and organic acids. *Marine Pollution Bulletin*, 159, 111480. <https://doi.org/10.1016/j.marpolbul.2020.111480>. (IF2021 = 7.001, JCR: Q1)
2. Laijun Zhang, Jingfen Jia, **Kang Mei**, Deli Lin. (2015). Defend effects of melatonin on protoplasts of *Gentiana Macrophylla* under UV-B irradiation. *Journal of Nuclear Agricultural Sciences*, 29(5): 0830-0835. (In Chinese with English abstract)
1. Laijun Zhang, Jingfen Jia, Fengqin Wang, **Kang Mei** (2015). Effect of exogenous melatonin on the growth of in vitro cultured *Polygonum cuspidatum* [J]. *Jiangsu Agricultural Sciences*, 43(8): 58-60. (In Chinese)

PROJECTS

- **Kang Mei**, Research on the ecological restoration mechanism of heavy metal arsenic in salt marsh sediments mediated by rhizosphere low molecular weight organic acids, 2024-2027, Jiangsu Provincial Natural Science Foundation Youth Fund, project approved, PI.
- **Kang Mei**, Research on the spatiotemporal distribution and regulation mechanism of microbial organisms in the offshore environment, 2024 to 2028, Jiangsu Ocean University, Lianyungang Haizhou Bay Talent Program, PI.

PATENT

- **Kang Mei**, Mengqiu Shi, Deli Wang. (2021). A method for detecting biopterin in marine water body. China Patent: CN111505179B (In Chinese).
- **Kang Mei** et, al. (2024). A method for detecting 5-aminolevulinic acid in red tide seawaters. China Patent (In Chinese), Into Review Stages.
- **Kang Mei** et, al. (2024). A method for the detection of multiple microbial pterins simultaneously in marine algal blooms (In Chinese), Into Review Stages.

ONGOING PUBLICATIONS

1. **Kang Mei**, et al. Dynamics of seasonal microbial biopterin in estuarine and coastal waters, Southeast China. Submitted to **Marine Chemistry** (*Under Review*)
2. **Kang Mei**, et al. Microbial pterins indicating organic carbon accumulation and degradability in estuarine and coastal sediments. **Catena** (*Under Review*)
3. **Kang Mei**, et al. Microbial pterin biomolecules facilitate algal blooms in response to nutrient pressure in estuarine and coastal continuum. **Marine Pollution Bulletin** (*Under Review*)
4. **Kang Mei**, et al. Impact of Elevated CO₂ on Microbial Pterins as Marine Biomarkers and Trace Metal Dynamics in Offshore Mesocosms. (*In preparation*)

AWARDS & HONORS

- ☐ **Merit Student Honors**. Xiamen University, 2023.
- ☐ **ICBC (Industrial and Commercial Bank of China) Scholarship Awards**. Xiamen University, 2023.
- ☐ **Scholarship for Studying Abroad**. China Scholarship Council, China, 2022.
- ☐ **National Award for Distinguished Ph.D. Student**. Ministry of Education, China, 2021.
- ☐ **Mindu International Bank Scholarship Awards**. Xiamen University, 2021.
- ☐ **First Prize in Provincial College Challenge Cup Competition**. Fujian Province, 2021.
- ☐ **First-class Scholarship Awards**. Xiamen University, 2019-2023.
- ☐ **Excellence Merit Student Honors**. Xiamen University, 2020.
- ☐ **Zhongtian Ocean Scholarship Awards**. Xiamen University, 2020.
- ☐ **Provincial Excellent Summer Social Practice Team**, Fujian Province. 2020.
- ☐ **Team Runner-up of Golf tournament**, Xiamen University, 2020.
- ☐ **First Prize of Ocean Cultural and Creative Competition**. Xiamen University, 2019.
- ☐ **Third Place in Cross-Fitness Competition**. Xiamen University, 2019.

- ☐ **First-class Scholarship Awards.** Xiamen University, 2015-2018.
- ☐ **Second-class Scholarship Awards,** Hainan Tropical Ocean University, 2012&2014
- ☐ **Merit Student Honors,** Hainan Tropical Ocean University, 2012&2014

ORAL PRESENTATION & POSTER

8. Kang Mei, Spatial-temporal Distribution and Regulatory Mechanism of Novel Biomarker Microbial Pterins in Xiamen Bay, China. The 15th UCAS Symposium, October 2023. Hong Kong, China (**Oral presentation**).
7. Kang Mei, Spatial-temporal distribution and source of regulation of microbial pteridines in the euphotic layer of South China Sea. The CESS 2023, July 2023. Shanghai, China. (**Poster**)
6. Kang Mei, Novel indicator of biopterin to interactions and perturbations associated with trace metals in estuarine and coastal waters, Southeast China. The 14th UCAS Symposium, March 2022. Taiwan, China (**Online oral presentation**).
5. Kang Mei, Mengqiu Shi, Deli Wang. Heavy metal migration, fluxes and potential impacts of submarine hydrothermal ecosystem offshore Kueishantao Islet, Taiwan. The CESS 2023, July 2021. Shanghai, China. (**Poster**)
4. Kang Mei, Mengqiu Shi, Deli Wang. Analysis of pivotal metabolic precursor-pterins in marine phytoplankton and bacteria. The 7th Symposium on Biological and Organic Geochemistry, October 2020. Beijing, China. (**Oral presentation**)
3. Kang Mei, Mengqiu Shi, Deli Wang. Development of analyzing pivotal metabolic precursor-pterins in the ocean. The Fifth MEL Graduate Forum, Xiamen University. August 2020. Zhangzhou, China. (**Oral presentation**)
2. Kang Mei, Mengqiu Shi, Deli Wang. A new method of measuring biopterin in phytoplankton and bacteria. Identification of biopterin – a key biological metabolic precursor in marine microbes. The First Marine Biological Science and Technology Graduate Forum, Xiamen University. November 2019. Xiamen, China. (**Oral presentation**)
1. Kang Mei, Mengqiu Shi, Deli Wang. A new method of measuring microbial biopterin in fresher water and coastal sea. Annual Session of MEL, Xiamen University. November 2020. Quanzhou, China. (**Poster**)