

Curriculum Vitae

Personal Information

Name: Yixiang Wang (male)

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Education

MS in Environmental Science Sep. 2013- Jun. 2016

Tsinghua University, Beijing, P. R. China

BS in Environmental Engineering Sep. 2009-Jun. 2013

Nankai University, Tianjin, P. R. China

PhD in Environmental Engineering Aug. 2016- Present

University of Illinois at Urbana-Champaign

Research Interests

- Connection between cytotoxicity of PM 2.5 and its ROS generation.

Research Experience

- **2014- 2016:** Toxicity of manufactured nano-TiO₂ to marine microalgae *Phaeodactylum tricorutum*.
Use hemocytometer for cell count, and calculate EC₅₀ based on the cell concentration.
Measurement of intracellular ROS by flow cytometer and microplate reader.
Observation of the cellular morphology by microscope and assess the cell integrity by flow cytometer.
Observation of the adsorption of nano-TiO₂ onto cell surface by microscope and TEM.
Characterization of nano-TiO₂ in culture medium by DLS and TEM.
Measurement of chlorophyll a content by spectrophotometer and measurement of Fv/Fm by Phyto-PAM.
- **2016- Present:** Connection between cytotoxicity of PM 2.5 and its ROS generation.
Quantification of the cytotoxicity of PM 2.5 extract by using mammalian cells.
Measurement the intracellular ROS (Still developing).
Measurement of ROS generation.

Publications

- **Wang, Yixiang**, Xiaoshan Zhu, Yongmin Lao, Xiaohui Lv, Yi Tao, Boming Huang, Jiangxin Wang, Jin Zhou, and Zhonghua Cai. "Tio 2 Nanoparticles in the Marine Environment: Physical Effects Responsible for the Toxicity on Algae Phaeodactylum Tricornutum." Science of The Total Environment 565 (2016): 818-26.