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Research Interest: Nitrogen cycle, Marine Biogeochemistry, Stable Isotope Biogeochemistry

[Education]

- Bachelor, Department of Agricultural Chemistry, National Taiwan University, Taiwan. 1999-2003
- Master, Institute of Microbiology and Biochemistry, National Taiwan University, Taiwan. 2003-2005
- PhD, Taiwan International Graduate Program - Earth System Science Program, Academia Sinica and National Central University. 2009-2014

[Biography]

- Research assistant, Institute of Environmental Bioengineering, National Taiwan University. 2005-2006.
- Compulsory military service. 2006-2007
- Assistant research fellow, Environmental Biotechnology Program, Development Center of Biotechnology. 2007-2008
- Research assistant, Institute of Molecular Biology, Academia Sinica. 2008-2009
- Postdoctoral fellow, Institutes of Hydrological and Oceanic Sciences, National Central University. 2014-2016

[Publication]

SCI journal paper:

- S.-Y. Hsiao, T.-C. Hsu, J.-w. Liu, X. Xie, Y. Zhang, J. Lin, H. Wang, J.-Y. Yang, S.-C. Hsu, M. Dai and S.-J. Kao: Nitrification and its oxygen consumption along the turbid Chang Jiang River plume, *Biogeosciences*, 11, 2083-2098, 2014. (IF=3.98, Rank:10/175, Field: Geosciences)
- T.-N. Weng, C.-W. Liu, Y.-H. Kao, S.-Y. Hsiao: Isotopic evidence of nitrogen sources and nitrogen transformation in arsenic-contaminated groundwater, *Science of Total Environment*, (2016 under revise).
- L.-W. Zheng, S. -Y Hsiao, X.-D. Ding, D.-W. Li, Y.-P. Chang: Isotopic composition and speciation of sedimentary nitrogen and carbon in the Okinawa Trough over the past 30 ka, *Paleoceanography*, DOI:10.1002/2015PA002782, 2015(IF=3.74, Rank:14/175, Field: Geosciences)
- J.-Y. Yang, S.-C. Hsu, M. Dai, S.-Y. Hsiao, and S.-J. Kao: Isotopic composition of water-soluble nitrate in bulk atmospheric deposition at Dongsha Island: sources and implications of external N supply to the northern South China Sea, *Biogeosciences*, 11, 1833-1846, 2014. (IF=3.98, Rank:10/175, Field: Geosciences)
- Y. Zhang, X. Xie, N. Jiao, S.-Y. Hsiao, and S.-J. Kao: Diversity and distribution of *amoA*-type nitrifying and *nirS*-type denitrifying microbial communities in the Yangtze River estuary, *Biogeosciences*, 11, 2131-2145, 2014. (IF=3.98, Rank:10/175, Field: Geosciences)
- V. H.-C. Liao, Y.-J. Chu, Y.-C. Su, S.-Y. Hsiao, C.-C. Wei, C.-W. Liu, C.-M. Liao, W.-C. Shen, and F.-J. Chang: Arsenite-oxidizing and arsenate-reducing bacteria associated with arsenic-rich groundwater in Taiwan, *Journal of contaminant hydrology*, 123, 20-29, 2011. (IF=2.20, Rank:85/223, Field: Environmental Science)

Conference paper:

- S.-Y. Hsiao, T.-C. Hsu, J.-w. Liu, X. Xie, Y. Zhang, J. Lin, H. Wang, J.-Y. Yang, S.-C. Hsu, M. Dai and S.-J. Kao Particulate associated nitrification and N₂O production along Changjiang plume. 2012 European Geoscience Union General Assembly.
- S.-Y. Hsiao, T.-C. Hsu, J.-w. Liu, X. Xie, Y. Zhang, J. Lin, H. Wang, J.-Y. Yang, S.-C. Hsu, M. Dai and S.-J. Kao: Nitrification and its oxygen consumption along the turbid Changjiang River plume Oral. 2013 European Geoscience Union General Assembly.

