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Department	Marine Sciences
Institution	Texas A&M University at Galveston
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EDUCATION

Post-Doc Department of Marine Science, Texas A&M University Galveston, 2010-2012

Ph.D. Oceanography, Department of Oceanography, Texas A&M University 2010.

M.S. Marine Chemistry, Institute of Oceanography & Environmental Science, Xiamen University, China, 2003.

B.S. Fine Chemical Engineering, Department of Environment & chemical Engineering, Yanshan University, China, 2000.

PROFESSIONAL EXPERIENCE

2012-Present **Assistant research scientist**, Department of Marine Science, Texas A&M University Galveston.

2004-2005 **Lab manager**, Monitoring Center of Marine Environment and Fishery Resources, Fujian China.

2003-2004 **Director**, Laboratory of Jingheng Detection Center, China.

RESEARCH INTERESTS

Biogeochemical cycling of radionuclides (I-129, Th-234, Pu) and their interactions with natural organic matter (e.g. humic acids and extracellular polymeric substances); Toxic effects of engineered nanoparticles on marine microorganisms; Application of trace metals in environmental chemistry and fish ecology; Management of analytical/environmental laboratories (organics/metals).

AWARDS

Welch Foundation 2010

Erma Lee and Luke Mooney Graduate Travel Grant, 2009-2010.

Erma Lee and Luke Mooney Graduate Travel Grant, 2007-2008.

SELECTIVE PEER-REVIEWED PUBLICATIONS

1. Xu, C., **Zhang, S.**, Athon, M., Ho, Y.-F., Li, H.-P., Grandbois, R., Schwehr, K.A., Kaplan, D.I., Yeager, C.M., Wellman, D., Santschi, P.H. 2015. A Re-evaluation of Radioiodine Transformation and Migration in the subsurface of Hanford Site. *J. Env. Radioactivity*, 139, 43-55.
2. Baumann, H., Wells, R.J.D., Rooker, J.R., **Zhang, S.**, Baumann, Z., Madigan, D.J., Dewar, H., Snodgrass, O.E., and Fisher, N.S. 2015. Combining otolith microstructure and trace elemental analyses to infer the arrival of juvenile Pacific Bluefin tuna in the

California current ecosystem. *ICES J. Marine Science*, 04/2015; DOI: 10.1093/icesjms/fsv062.

3. **Zhang, S.**, Ho, Y.-F., Creeley, D., Kimberly, R.A., Xu, C., Li, H.-P., Schwehr, K.A., Kaplan, D.I., Yeager, C.A., Sanschi, P.H. 2014. Temporal Variation of Iodine Concentration and Speciation (^{127}I and ^{129}I) in Wetland Groundwater from the Savannah River Site, USA. *Environ. Sci. Technol.*, 48, 11218-11226.
4. Kaplan, D.I., **Zhang, S.**, Roberts, K.A., Schwehr, K.A., Xu, C., Creeley, D., Ho, Y.-F., Li, H.-P., Yeager, C.A., and Sanschi, P.H. 2014. Radioiodine concentrated in a wetland. *Journal of Environmental Radioactivity* 131, 57-61.
5. Xu, C.; Athon, M.; Ho, Y.-F.; Chang, H.-S.; **Zhang, S.**; Kaplan, D.I., Schwehr, K.A.; DiDonato, N.; Hatcher, P.; Santschi, P.H. Plutonium Immobilization and Re-mobilization by Soil Mineral and Organic Matter in the Far-Field of the Savannah River Site, USA. *Environ. Sci. Technol.* 2014, 48, 3186-3195.
6. **Zhang, S.**, Xu, C., Creeley, D., Ho, Y.-F., Li, H.-P., Grandbois, R., Schwehr, K.A., Kaplan, D.I., Yeager, C.M., Wellman, D., Santschi, P.H. Iodine-129 and Iodine-127 Speciation in Groundwater at the Hanford Site, U.S.: Iodate Incorporation into Calcite. *Environ. Sci. Technol.*, 2013, 47, 9635-9642.
7. **Zhang, S.**, Jiang, Y., Chen, C.-S., Creeley, D., Schwehr, K.A., Quigg, A., Chin, W.-C. and Santschi, P.H. Ameliorating Effects by Extracellular Polymeric Substances Excreted by *Thalassiosira pseudonana* on algal toxicity of CdSe Quantum Dots. *Aquatic Toxicology*, 2013, 126, 214-223.
8. **Zhang, S.**, Jiang, Y., Chen, C.-S., Spurgin, J., Schwehr, K.A., Quigg, A., Chin, W.-C. and Santschi, P.H. Aggregation, Dissolution, and Stability of Quantum Dots in Marine Environments: Importance of Extracellular Polymeric Substances. *Environ. Sci. Technol.*, 2012, 46, 8764-8772.
9. **Zhang, S.**, Du J., Xu C., et al. Concentration Dependent Mobility, Retardation and Speciation of Iodine in Surface Sediment from the Savannah River Site. *Environ. Sci. Technol.* 2011, 45, 5543–5549.
10. Xu, C.; **Zhang, S.**; Chuang, C. Y.; Miller, E. J.; Schwehr, K. A.; Santschi, P. H., Chemical composition and relative hydrophobicity of microbial exopolymeric substances (EPS) isolated by anion exchange chromatography and their actinide-binding affinities. *Marine Chemistry* 2011, 126, (1-4), 27-36.
11. **Zhang, S.**, K .A. Schwehr, Y. -F. Ho, Xu, C., Roberts, K.A., Kaplan, D.I., Brinkmeyer, R., Yeager, C.M., and Santschi, P.H. A novel approach for the simultaneous determination of iodide, iodate and organo-iodide for ^{127}I and ^{129}I in environmental samples using Gas Chromatography-Mass Spectrometry. *Environ. Sci. Technol.* 2010, 44, 9042–9048.
12. **Zhang, S.**, Xu, C., and Santschi, P.H. Chemical composition and ^{234}Th (IV) binding of extracellular polymeric substances (EPS) produced by the marine diatom *Amphora* sp. *Marine Chemistry* 2008, 112: 81–92.