

XUCHEN WANG

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Institute of Oceanology
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Education

1993, Ph.D., Chemical Oceanography, State University of New York at Stony Brook.
1989, M.S., Marine Environmental Science, State University of New York at Stony Brook
1981, B.S., Marine Chemistry, China Ocean University, Qingdao, China

Professional Experience

2003- Senior Scientist, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China.
1997- Research Associate and Adjunct Associate Professor, Department of Earth, Environmental and Ocean Sciences, University of Massachusetts at Boston, USA.
1998-2001: Guest Investigator, department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, USA.
1994-1997: Irvine Smith Post-doc Fellowship, Department of Earth System Science, University of California at Irvine, USA.
1993-1994: *Research Associate, Department of Environmental Sciences, Brookhaven National Laboratory, USA.*
1986-1993: Graduate Research and Teaching Assistant, State University of New York at Stony Brook, USA.

Research Interests

My research examines the distribution and biogeochemical processes of organic compounds in marine and coastal environments. I am particularly interested in the sources and geochemical processes involved in the decomposition and preservation of organic matter in marine sediments. I am also interested in the application of using radiocarbon and stable C and N isotopes to study the sources and biogeochemical cycling of carbon in the ocean.

Recent Publications:

1. **Wang X.-C.**, A. M. Altabet, J. Callahan and R. F. Chen (2004) Stable carbon and nitrogen isotopic compositions of organic compound classes in high molecular weight dissolved organic matter from four U.S. estuaries. *Geochimica et Cosmochimica Acta* 68, 2681-2691.
2. **Wang X.-C.**, R. F. Chen and B. Gardner (2004) Sources and transport of dissolved and particulate organic matter in the Mississippi River plume and adjacent coastal waters of the northern Gulf of Mexico. *Marine Chemistry* (Special

Issue on Colored Dissolved Organic Matter). 89, 241-256.]\

3. **Wang X.-C.**, R. F. Chen and A. Berry (2003) Sources and preservation of organic matter in Plum Island salt marsh sediments: Long-chain *n*-alkanes and stable carbon isotope compositions. *Estuarine, Coastal and Shelf Science*, 58 (4), 917-929.
4. Zou L., **X.-C. Wang**, R. A. Culp, J. Callahan, R. F. Chen, M. Altabet and M.-Y. Sun (2004) Bacterial roles in the formation of high molecular weight dissolved organic matter in estuarine and coastal waters: Evidence from lipids and compound-specific isotopic ratios. *Limnology & Oceanography*, 49, 297-302.