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Education History

- Bachelor of Science, Science University of Tokyo, 1974
 - Doctor of Fisheries, Hokkaido University, 1992
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SUBJECT: Chemical Oceanography, Advanced Marine Biogeochemistry, Fisheries Oceanography

SPECIALTY: Chemical Oceanography and Marine Biogeochemistry; Trace Metal Chemistry and Biogeochemistry in Seawater

CURRENT RESEARCH TOPICS:

(1) Trace Metal Chemistry in Seawater

Fe(III) Complexation with Natural Organic Ligands in Seawater

Fe(III) Hydroxide Solubility and Dissolved Fe Concentration in Seawater

Chemical Speciation of Trace Metals in Seawater

(2) Trace Metal Uptake by Phytoplankton

Growth and Iron Uptake Mechanism of Phytoplankton in Seawater

Metal Uptake by Phytoplankton in Organic-Metal Complex Media

SELECTED PUBLICATIONS:

1. Variation in Iron(III) Solubility and Iron Concentration in the Northwestern North Pacific Ocean. *Limnol. Oceanogr.*, 47: 885-892 (2002)
2. Vertical Distributions of Iron(III) Hydroxide Solubility and Dissolved Iron in the Northwestern North Pacific Ocean. *Geophys. Res. Lett.*, 28: 4611-4614 (2001)
3. Effect of Hydroxamate Ferrisiderophore Complex (Ferrichrome) on Iron Uptake and Growth of a Coastal Marine Diatom, *Chaetoceros sociale*. *Limnol. Oceanogr.*, 45: 1235-1244 (2000)
4. Variation of Size-fractionated Fe Concentrations and Fe(III) Hydroxide Solubilities during a Spring Phytoplankton Bloom in Funka Bay (Japan). *Mar. Chem.*, 71: 111-123 (2000)