

Dong Soo Lee
Brief Vitae, August, 2005

EDUCATION

1974: Yonsei University, Seoul Korea, BS in chemistry
1976: Korea Advanced Institute of Science, Seoul Korea, MS in chemistry
1983: Univ. of California, San Diego, Ph. D. in oceanography

EXPERIENCE

1983-1985 : Massachussetts Institute of Technology, post-doctoral fellow
1985-1990 : Korea Ocean Research & Development Institute, research scientist
1990-present : Yonsei University, professor in chemistry

RESEARCH INTEREST

Analytical method development of atmospheric trace gases and soluble ions in atmospheric particulate and application to urban air pollution studies.
Marine biogeochemistry of trace elements and actinides.

SELECTED PUBLICATIONS

Determination of Nickel in Seawater by Carbonyl Generation Anal. Chem. 54, p1182-1184 (1982)
Determination of Bismuth in Environmental Samples by Flameless Atomic Absorption Spectrometry after Hydride Generation Anal. Chem. 54, p1682-1686 (1982)
Palladium in Northeast Pacific Water; Relationship to Nickel. Nature, 305, p47-48 (1983)
Concentration and Separation Trace Metals from Seawater using a Single Anion Exchange Resin Bead. Anal. Chem. 56, p1956-1959 (1984)
Tellurium Species in Seawater. Nature 313, p782-785 (1985)
Bismuth in the Atlantic and North Pacific ; a natural analogue to plutonium and lead. Earth & Planetary Sci. Lett. 76, p254-262 (1986)
Elemental Analysis of Atmospheric Particulate by Inductively Coupled Plasma Mass Spectrometry. Analytical Science, 7, p1359-1362. (1991)
Input of Atmospheric Trace Elements to the Yellow Sea during the Spring of a Low Dust Year, Jour. Geophysical Research, 97, p3767-3777 (1992).
Measurement of Atmospheric Ammonia by Diffusion Scrubber - Ion Chromatography, Analytical Science, 13, 267-272 (1997)
Determination of Radium in mineral waters by high-resolution inductively coupled plasma mass spectrometry after preparation by cation exchange", Journal of Analytical Atomic Spectrometry, 223-227, (1999)
Chemical composition of precipitation and wet deposition of major ions on the Korean peninsula, Atmospheric Environment, 34(4), 563-575. (2000)
Determination of ²²⁶Ra in mineral waters by high-resolution inductively coupled plasma mass spectroscopy after sample precipitation by cation exchange, Journal of Analytical and Atomic Spectroscopy, 14(2), 223-228 (1999)
Atmospheric nitrogen and sulfur containing compounds for three sites of South Korea, Atmospheric Environment, 36, 3485~3494 (2002)
A high-efficiency annular diffusion scrubber for the collection of water-soluble trace atmospheric gases, Anal Bioanal Chem 2002, 374, 535~539
Condenser-type diffusion denuders for the collection of sulfur dioxide in a clean room, Anal Bioanal. Chem 375, 456~459 (2003)
Development of an automated method for simultaneous determination of low molecular weight aliphatic amines and ammonia in ambient air by diffusion scrubber coupled ion chromatography, Analytical Chemistry 2003
Development of an automated monitoring system for various gas-phase organic carbonyls in ambient air, Intern. J. Environ. Anal. Chem. 84, 355~365, (2004).