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 Homepage

Degree	<ul style="list-style-type: none"> <li>• 1983 Seoul National University, Korea (B.S. in Chemistry)</li> <li>• 1985 Seoul National University, Korea (M.S. in Chemistry)</li> <li>• 1993 The Ohio State University, USA (Ph.D. in Chemistry)</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• 1994~present Professor, Department of Chemistry, Incheon National University</li> <li>• 2018~present Director of Incheon Regional Chapter, Korean Chemical Society</li> <li>• 2009 Member of Board of Trustees, Korean Chemical Society</li> <li>• 2004 ~ 2005 Chief Secretary of Incheon Regional Chapter, Korean Chemical Society</li> <li>• 2001 ~ 2002 Visiting Scholar, Princeton University, USA</li> <li>• 1993 ~ 1994 Postdoc, Kansas State University, USA</li> </ul>
Major	<ul style="list-style-type: none"> <li>• Physical Chemistry: Molecular reaction dynamics, Photophysical chemistry, Computational chemistry</li> </ul>
Teaching	<ul style="list-style-type: none"> <li>• Physical Chemistry, Experiments in Physical Chemistry, Molecular Spectroscopy, Photochemistry, Quantum Chemistry</li> </ul>
Representative Research	<ul style="list-style-type: none"> <li>• Chemiluminescence Studies of Reactions of Group 2, 14, and 15 Elements: Reactivities and Product State Distributions (1993)</li> <li>• Revealing the Roles of Hamiltonian Coupling in Bound-state Quantum Systems, J. Chem. Phys. 120, 6874 (2004)</li> </ul>
Researches	<p>&lt;Papers&gt;</p> <ul style="list-style-type: none"> <li>• Excited-State Proton Transfer Reaction of Pyranine in Aqueous Sugar and Alcohol Solutions Investigated by Fluorescence Spectroscopy, Bull. Korean Chem. Soc. 38, 1333 (2017)</li> <li>• SERS Spectroscopy and DFT Studies of Thionine and its Derivatives Adsorbed on Silver Colloids: Which N Atom is Used for Coordination of a Phenothiazine-Based Natural Dye to Electron-Deficient Metal Surface?, Bull. Korean Chem. Soc. 38, 928 (2017)</li> <li>• Surface-enhanced Raman Spectroscopic Studies of Ellagic Acid in Silver Colloids, Bull. Korean Chem. Soc. 36, 1637 (2015)</li> <li>• Enhanced Raman Spectrum of Juglone on Ag Surface: Is It a Simile to That of Lawson?, Bull. Korean Chem. Soc. 34, 68 (2013)</li> <li>• Quinine Assay with Home-built UV-LED Fluorometer: Quantitative Analysis, Photo-bleaching, Fluorescence Quenching, and Urine Analysis, J. Korean Chem. Soc. 56, 577 (2012)</li> <li>• Enhanced Raman Spectrum of Lawsone on Ag Surface: Vibrational analyses, Frequency Shifts, and Molecular Geometry, Spectrochim. Acta A 83, 425 (2011)</li> </ul>
Current Research	<ul style="list-style-type: none"> <li>• Molecular reaction dynamics and nanoenvironment in complex chemical systems using fluorescence techniques</li> <li>• Raman scattering and fluorescence signal enhancement on metal surfaces</li> </ul>