



NAME Cho, Han-Gook  
 Position Professor  
 Phone +82+32-835-8236  
 Office 5-448  
 E-mail hgc@inu.ac.kr  
 Homepage <http://www.inu.ac.kr/prof/main.jsp?prof=hgc>

Degree	<ul style="list-style-type: none"> <li>• 1979 BS., Dept. of Chemistry, Yonsei University</li> <li>• 1981 MS., Dept. of Chemistry, KAIST</li> <li>• 1989 Ph.D., Dept. of Chemistry, Michigan State University</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• 1994~present Professor at Incheon National University</li> <li>• 1993~1994 Senior Researcher at Korean Institute of Geology and Materials</li> <li>• 1989~1993 Research Specialist at University of California, Berkeley</li> <li>• 2008 Scientist of the Year, Metropolitan City of Incheon</li> </ul>
Major	<ul style="list-style-type: none"> <li>• Physical Chemistry, High-Resolution Spectroscopy, Matrix-Isolation Spectroscopy</li> </ul>
Teaching	<ul style="list-style-type: none"> <li>• Physical Chemistry, Spectroscopy, Structural Identification, Photochemistry</li> </ul>
Representative Research	<ul style="list-style-type: none"> <li>• "Reduced Equation of State and Thermodynamic Properties of Molten High Polymers According to the Significant Structure Theory," KAIST 1981.</li> <li>• "High Resolution Infrared Spectroscopy of CH<sub>3</sub>F, CD<sub>3</sub>I, and CD<sub>3</sub>Br and Infrared-Radiofrequency Double Resonance Spectroscopy of CD<sub>3</sub>I and CD<sub>3</sub>Br," Michigan State Univ. 1989.</li> </ul>
Researches	<ul style="list-style-type: none"> <li>• Matrix Preparation and Spectroscopic and Theoretical Investigation of Small High Oxidation-State Complexes of Group 1-12 and 14, Lanthanide and Actinide Metal Atoms, <i>Coord. Chem. Rev.</i> 2017, 335, 76-102 (Review).</li> <li>• Infrared Spectra and Density Functional Calculations for Singlet CH<sub>2</sub>=SiX<sub>2</sub> and triplet HC-SiX<sub>3</sub> and XC-SiX<sub>3</sub> Intermediates in Reactions of Laser-Ablated Silicon Atoms with Di-, Tri-, and Tetrahalomethanes, <i>Inorg. Chem.</i> 2016, 55, 2819-2829.</li> <li>• Infrared Spectra of CH<sub>3</sub>-MH, CH<sub>3</sub>-M, and CH<sub>3</sub>-MH<sup>-</sup> Prepared via Methane Activation by Laser-Ablated Au, Ag, and Cu Atoms, <i>J. Chem. Soc. Dalton Trans.</i> 2011, 40(42), 11115-11124.</li> <li>• Preparation and Characterization of Simple Dihalomethylidene Platinum Dihalide Complexes in Reactions of Laser-Ablated Pt Atoms with Tetrahalomethanes, <i>J. Am. Chem. Soc.</i> 2008, 130(47), 15836-15841.</li> <li>• Formation of HC=ReH<sub>3</sub> in Methane Activation by Rhenium Atoms: Observation of the Elusive Methylidyne C-H Stretching Absorption, <i>Organometallics</i> 2007, 26, 4098-4101. [Communication]</li> <li>• Infrared Spectra of CH<sub>3</sub>-MoH, CH<sub>2</sub>=MoH<sub>2</sub>, and CH≡MoH<sub>3</sub> Formed by Activation of CH<sub>4</sub> by Molybdenum Atoms, <i>J. Am. Chem. Soc.</i> 2005, 127, 8226-8231.</li> </ul>
Current Research	<ul style="list-style-type: none"> <li>• Infrared Spectroscopy of Transient Species Produced in Reactions of Transition-Metals and Small Organic Compounds and Photolysis Afterward</li> </ul>