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Degree	<ul style="list-style-type: none"> <li>• 1994 KAIST , Chemistry (B.S.)</li> <li>• 1998 Seoul National University, Chemistry (M.S.)</li> <li>• 2002 KAIST , Chemistry (Ph.D.)</li> </ul>
Experience	<ul style="list-style-type: none"> <li>• 2006~present Incheon National University, Professor</li> <li>• 2012~2013 Lawrence Berkeley National Lab. Visiting professor</li> <li>• 2004~2006 KRISS, Senior Researcher</li> <li>• 2002~2004 ETRI, Researcher</li> <li>• 2016~2018 Associate Editor, Journal of Electrochemical Science and Technology</li> </ul>
Major Teaching	<ul style="list-style-type: none"> <li>• Electrochemistry, Biosensor, Nanochemistry</li> <li>• Analytical Chemistry, Electrochemistry, Instrumental Analysis,</li> </ul>
Representative Research	<ul style="list-style-type: none"> <li>• M13 Virus-Incorporated Biotemplates on Electrode Surfaces to Nucleate Metal Nanostructures by Electrodeposition, (2017) ACS Appl. Mater. &amp; Interfaces, 9, 32965.</li> <li>• An Electrochemically Reduced Graphene Oxide-Based Electrochemical Immunosensing Platform for Ultrasensitive Antigen Detection, (2012) Anal. Chem. 84, 4, 1871.</li> </ul>
Researches	<p>&lt;Publications&gt;</p> <ul style="list-style-type: none"> <li>• Electrochemically Co-deposited Teeth-like Virus-Platinum Nanohybrids as an Electrocatalyst for Methanol Oxidation Reaction, (2018) Electroanalysis, 30, 220.</li> <li>• One-step Synthesis of AuAg Alloy Nanodots and its Electrochemical Studies towards Nitrobenzene Reduction and Sensing, (2018) Electroanalysis, 30, 57.</li> <li>• Gold Dendrites Co-deposited with M13 Virus as a Biosensor Platform for Nitrite Ions, (2017) Biosensors &amp; Bioelectronics, 94, 87.</li> <li>• M13 Virus-Incorporated Biotemplates on Electrode Surfaces to Nucleate Metal Nanostructures by Electrodeposition, (2017) ACS Appl. Mater. &amp; Interfaces, 9, 32965.</li> <li>• In-Situ Growth of Prussian Blue Nanostructures at Reduced Graphene Oxide as a Modified Platinum Electrode for Synergistic Methanol Oxidation, (2016) Langmuir, 1890</li> <li>• Aptamer-free electrochemical detection of thrombin based on coagulation reaction of ferrocene-labeled fibrinogen, (2015) J. Electroanal. Chem., 742, 70.</li> <li>• Electrochemical thrombin detection based on the direct interaction of target proteins and graphene oxide as an indicator Analyst (2014), 139, 1331.</li> </ul>
Current Research	<ul style="list-style-type: none"> <li>• Development of electrocatalytic materials based on metal nanoparticles and viruses</li> <li>• Development of electrochemical methods for chiral nanomaterials and chiral sensing</li> </ul>