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Degree	<ul style="list-style-type: none"> • 1995 SungKyunKwan University, Chemistry (BSc) • 1997 SungKyunKwan University, Chemistry (MSc) • 2001 Cambridge University, Chemistry (PhD)
Experience	<ul style="list-style-type: none"> • 2004~present Incheon National University, Professor • 2015~present Korean Membrane Society, Editor • 2003~2004 Eastman Chemical Company, Senior Research Associate • 2001~2003 MIT, Postdoctoral Research Associate
Major Teaching	<ul style="list-style-type: none"> • Organic Chemistry, Organic Material Synthesis, Polymer Synthesis • Organic Chemistry, Organic Material Synthesis, Advanced Organic Chemistry
Representative Research	<ul style="list-style-type: none"> • "Functional polymers based on myo- and scyllo-inositol", 2001 • "Self-amplifying wavelength responsive fluorescent polymers for fluoride detection" - Angew. Chem. Int. Ed. 2003, 42, 4803.
Researches	<p><Selected Publication></p> <ul style="list-style-type: none"> • "Stereoisomers of an azine-linked donor/acceptor conjugated polymer: the impact of molecular conformation on electrical performance" - RSC Advances, 6, 50, 44272~44278. • "PEG-imidazolium-functionalized 6FDA-durene polyimide as a novel polymeric membrane for enhanced CO₂ separation" - RSC Advances, 6, 37, 31038~31091. • "Alkyl bisimidazolium-mediated crosslinked comb-shaped polymers as highly conductive and stable anion exchange membranes" - RSC Advances, 6, 16168~16176. • "Physically Cross-linked Polymer Binder Induced by Reversible Acid/ Base Interaction for High-Performance Silicon Composite Anodes" - ACS Applied Materials & Interfaces, 7, 42, 23545~23553. • "High performance blend membranes based on sulfonated poly(arylene ether sulfone) and poly(p-benzimidazole) for PEMFC applications" - J. Ind. Eng Chem. 29, 104~111. • "Novel piperazinium-mediated crosslinked polyimide membranes for high performance CO₂ separation, - J. Membr. Sci. 487, 90~98.
Current Research	<ul style="list-style-type: none"> • Polymer Electrolyte Membranes for Fuel Cell Applications • Polymer Membranes for CO₂ Separation • Polymer Binders for Li Battery Applications