

## Academic Qualification

Doctor of Philosophy (Engineering) : Division of Molecular Chemistry, Graduate School of Engineering  
Hokkaido University, Japan  
Dissertation: Molecular Hydrogen-Originated Protonic Acid Sites on Zirconia-Based Catalysts  
Supervisor : Prof. Dr Hideshi Hattori

Masters of Engineering :  
Chemical & Environmental Engineering, Graduate School of Engineering  
Kitami Institute of Technology, Japan  
Thesis: Propylene Partial Oxidation by Using a Cs-Ag Immobilized Membrane Reactor  
Supervisor : Prof Dr Masayoshi Kobayashi

Bachelor of Engineering :  
Department of Industrial Chemistry, Faculty of Engineering  
Kitami Institute of Technology, Japan  
Final Year Project: Development of a New Type Membrane Reactor  
Supervisor : Prof Dr Masayoshi Kobayashi/Prof Dr Nobuo Takahashi

Research Fellow :  
Catalysis Research Center, Hokkaido University Japan  
Research Topic : Ti loaded MCM41 Chiral Catalysis  
Supervisor : Prof. Dr. Masakazu Iwamoto