

Curriculum Vitae

Hideki Tanaka

Associate Professor
Department of Chemical Engineering,
Kyoto University,
Katsura, Nishikyo, Kyoto 615-8510, Japan
Tel: +81-75-383-2672
E-mail: tanaka@cheme.kyoto-u.ac.jp

Diplomas

2002 Chiba University, Ph.D., Graduate School of Science and Technology
1999 Chiba University, MSc, Graduate School of Science and Technology
1997 Chiba University, BSc, Faculty of Science

Research Activities

2016-Present Associate Professor, Department of Chemical Engineering, Kyoto University
2011-2016 Lecturer, Department of Chemical Engineering, Kyoto University
2006-2011 Assistant Professor, Department of Chemical Engineering, Kyoto University
2004-2006 Assistant Professor, Graduate School of Science and Technology, Chiba University
2003-2004 Post-doctoral researcher, Japan Science and Technology Agency (JST)
2002-2003 Post-doctoral researcher, Venture Business Laboratory (VBL), Chiba University

Professional services and Award

He received the Mitsubishi Karugon Award from The Japan Society on Adsorption (2008).

Selected Publications

- “Adsorption-Induced Structural Transition of ZIF-8: A Combined Experimental and Simulation Study,” H. Tanaka, S. Ohsaki, S. Hiraide, D. Yamamoto, S. Watanabe and M. T. Miyahara, *J. Phys. Chem. C*, **2014**, 118, 8445-8454.
- “Modelling and Visualization of CO₂ Adsorption on Elastic Layer-Structured Metal-Organic Framework-11: Toward a Better Understanding of Gate Adsorption Behavior,” H. Tanaka, S. Hiraide, A. Kondo and M. T. Miyahara, *J. Phys. Chem. C*, **2015**, 119, 11533-11543.
- “Understanding gate adsorption behaviour of CO₂ on elastic layer-structured metal-organic framework-11,” S. Hiraide, H. Tanaka and M. T. Miyahara, *Dalton Trans.*, **2016**, 45, 4193-4202.
- “Mechanism of Kinetically Controlled Capillary Condensation in Nanopores: A Combined Experimental and Monte Carlo Approach”, T. Hiratsuka, H. Tanaka and M. T. Miyahara, *ACS Nano*, **2017**, 11, 269-276.
- “Intrinsic Thermal Management Capabilities of Flexible Metal-Organic Frameworks for Carbon Dioxide Separation and Capture,” S. Hiraide, H. Tanaka, N. Ishikawa and M. T. Miyahara, *ACS Appl. Mater. Interface*, **2017**, 9, 41066-41077.