

Curriculum Vitae

Name: YASUMASA TAKENAKA (竹中 康将)

2-1 Hirosawa, Wako, Saitama 351-1098, JAPAN

Tel: (+81)-48-467-4041

E-mail: yasumasa.takenaka@riken.jp

Education

Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo, Japan

Degree (Doctoral), Major: Engineering

Thesis Title: Rhodium Complex Catalyzed Alternating Copolymerization of Allene with CO

Date of Graduation: June 30, 2001

Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo, Japan

Degree (Master), Major: Engineering

Thesis Title: Preparation and Characterization of Polyurethane-Cyclodextrin Pseudopolyrotaxanes

Date of Graduation: March 31, 1998

School of Engineering, Tokyo Institute of Technology, Tokyo, Japan

Degree, Major: Engineering

Date of Graduation: March 31, 1996

Research/Employment History

2013.04 ~ present: Research Scientist, Bioplastic Research Team, Center for Sustainable Resource of Science (CSRS), RIKEN

<http://www.riken.jp/en/research/labs/csrs/bioplastic/>

2011.03 ~ 2013.03: Research Scientist, Bioplastic Research Team, Biomass Engineering Program (BMEP), RIKEN

2006.10 ~ 2011.02: Research Scientist, Molecular Catalysis Group, Research Institute for Innovation in Sustainable Chemistry (ISC), National Institute of Advanced Industrial Science and Technology (AIST)

2006.04 ~ 2006.09: Postdoctoral Researcher, Molecular Catalysis Group, ISC, AIST

2003.04 ~ 2006.03: Special Postdoctoral Researcher, RIKEN

2001.04 ~ 2003.03: Postdoctoral Researcher, PRESTO, JST

Research Area

- Development of high-performance and specific functional bioplastic materials from biomass resources (RIKEN).
- Efficient syntheses of chemicals by the immobilized molecular catalysts (AIST).
- Development of lanthanide complexes for highly efficient organic reactions (RIKEN).
- Synthesis and characterization of the organic-inorganic assemblies constructed from polyoxometalates and organic compounds (JST).
- Development of unique structural polymers catalyzed by transition metal catalysts (Tokyo Inst. of Tech.).

Selected Publication Lists

- 1) Motosuke Imada, Yasumasa Takenaka,* Hidehito Hatanaka, Takeharu Tsuge, and Hideki Abe
Unique acrylic resins with aromatic side chains by homopolymerization of cinnamic monomers.
Communications Chemistry, **2**, 109 (2019).
- 2) Yasumasa Takenaka,* Hideki Abe
Group-Transfer Polymerization of Various Crotonates Using Organic Acid Catalyst.
Macromolecules, **52**, 4042~4058 (2019).
- 3) Yasumasa Takenaka,* Norihisa Fukaya, Seong Jib Choi, Goro Mori, Takahiro Kiyosu, Hiroyuki Yasuda, and Jun-Chul Choi*
Synthesis of Cyclic Thiocarbonates from Thiiranes and CS₂ with Silica-Immobilized Catalysts.
Ind. Eng. Chem. Res., **57**, 891~896 (2018).
This paper was selected to highlighted papers.
- 4) Jun-Chul Choi,* Kouichi Shiraiishi, Yasumasa Takenaka, Hiroyuki Yasuda, and Toshiyasu Sakakura*
Synthesis and Reactivity of Five-Membered Palladalactones from Arylallenes and Carbon Dioxide: Relevance to Catalytic Lactone Synthesis.
Organometallics, **32**, 3411~3414 (2013).
- 5) Yasumasa Takenaka,* Takahiro Kiyosu, Goro Mori, Jun-Chul Choi, Norihisa Fukaya, Toshiyasu Sakakura, and Hiroyuki Yasuda*
Synthesis of Cyclic Sulfites from Epoxide and Sulfur Dioxide with Silica-Immobilized Homogeneous Catalysts.
ChemSusChem, **5**, 194~199 (2012).
- 6) Yasumasa Takenaka,* Takahiro Kiyosu, Goro Mori, Jun-Chul Choi, Toshiyasu Sakakura, and Hiroyuki Yasuda*
Selective Hydrogenation of Nitroalkane to *N*-Alkyl Hydroxylamine over Supported Palladium Catalysts.
Catalysis Today, **164**, 458~552 (2011).
- 7) Yasumasa Takenaka,* Takahiro Kiyosu, Jun-Chul Choi, Toshiyasu Sakakura, and Hiroyuki Yasuda*
Selective Synthesis of *N*-Alkyl Hydroxylamine by the Hydrogenation of Nitroalkanes using Supported Palladium Catalysts.
ChemSusChem, **3**, 1166~1168 (2010).
- 8) Yasumasa Takenaka,* Takahiro Kiyosu, Jun-Chul Choi, Toshiyasu Sakakura, and Hiroyuki Yasuda*
Selective Synthesis of *N*-Aryl Hydroxylamines by the Hydrogenation of Nitroaromatics Using Supported Platinum Catalysts.
Green Chemistry, **9**, 1385~1390 (2009).
- 9) Yasumasa Takenaka, Takanori Shima, Jens Baldamus, and Zhaomin Hou*
Reduction of Transition Metal-Coordinated Carbon Monoxide by a Rare Earth Hydride Cluster. Isolation of Well-Defined Heteromultimetallic Oxycarbene, Oxymethyl, Carbene, and Methyl Complexes.
Angew. Chem. Int. Ed., **48**, 7888~7891 (2009).
- 10) Yasumasa Takenaka, and Zhaomin Hou*
Lanthanide Terminal Hydride Complexes Bearing Two Sterically Demanding C₅Me₄SiMe₃ Ligands. Synthesis, Structure, and Reactivity.
Organometallics, **28**, 5196~5203 (2009).
- 11) Yusuke Ishii, Yasumasa Takenaka, and Katsuaki Konishi*
Porous Organic-Inorganic Assemblies Constructed from Keggin Polyoxometalate Anions and Calix[4]arene-Na⁺ Complexes: Structure and Guest-Sorption Profiles.
Angew. Chem. Int. Ed., **43**, 2702~2705 (2004).
- 12) Yasumasa Takenaka, Kohtaro Osakada,* Makoto Nakano, and Tomiki Ikeda
A Liquid Crystalline Polyketone Prepared from Allene Having an Azobenzene Substituent and Carbon Monoxide.
Macromolecules, **36**, 1414~1416 (2003).