

Curriculum Vitae

Name: Junko Aimi

Affiliation: National Institute for Materials Science,
Organic Nanomaterials Center, Macromolecules Group

Phone: +81-29-859-2031

Fax: +81-29-859-2101

E-mail: AIMI.Junko@nims.go.jp



Education:

BS: Faculty of Science, Tokyo University of Science (2005)

MS: School of Engineering, The University of Tokyo (2007)

Ph.D.: School of Engineering, The University of Tokyo (2010)

Oct 2007 – Oct 2008: Visiting scholar at Carnegie Mellon University
(Prof. Krzysztof Matyjaszewski Group)

Fellowship:

Apr 2007 – Mar 2010: JSPS (Japan Society for the Promotion of Science) Young Scientist Fellowship

Research Topics:

1. Supramolecular Chemistry

Construction of box-shaped supramolecular assemblies using π -conjugated porphyrin rotamers
Molecular recognition of hydrocarbons in supramolecular nanocavity

2. Precision Polymer Synthesis

Synthesis of block copolymers via atom transfer radical polymerization (ATRP)
Preparation of conducting materials using functional diblock copolymers

Publications:

1. J. Aimi, K. Oya, A. Tsuda, T. Aida "Chiroptical Sensing of Asymmetric Hydrocarbons Using a Homochiral Supramolecular Box from a Bismetalloporphyrin Rotamer", *Angew. Chem. Int. Ed.* **2007**, *46*, 2031.
2. J. Aimi, Y. Nagamine, A. Tsuda, A. Muranaka, M. Uchiyama, T. Aida "Conformational Solvatochromism: Spatial Discrimination of Nonpolar Solvents by Using a Supramolecular Box of a π -Conjugated Zinc Bisporphyrin Rotamer", *Angew. Chem. Int. Ed.* **2008**, *47*, 5153. (Highlighted in Inside Cover Picture)
3. J. Aimi, L. A. McCullough, K. Matyjaszewski, "Synthesis of Poly(vinylacetylene) Block Copolymers by Atom Transfer Radical Polymerization", *Macromolecules* **2008**, *41*, 9522.