

Curriculum Vitae

Personal Information

Name: Kana Tanabe (田辺 佳奈)
Date of Birth: February 13, 1985
Place of Birth: Kanagawa, Japan
Gender: Female
Nationality: Japanese
Present Address: Laboratory of Synthetic Organic Chemistry
Graduate School of Pharmaceutical Sciences
The University of Tokyo
7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan
Tel: +81-3-5841-1807
E-mail: kanatana@mol.f.u-tokyo.ac.jp



Education

2007.3 Bachelor's Degree in Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo (Prof. Takashi Kato)
2009.3 Master's Degree in Department of Chemistry and Biotechnology, School of Engineering, The University of Tokyo (Prof. Takashi Kato)
2012.3 Ph.D. in Department of Chemistry and Biotechnology School of Engineering, The University of Tokyo (Prof. Takashi Kato)

Career

2009.4-2012.3 Research Fellow of JSPS (DC1)
2012.4-present Researcher
in Graduate School of Pharmaceutical Sciences
The University of Tokyo (Prof. Motomu Kanai)

Publication List

Original Papers

1. **“Asparagine-Selective Cleavage of Peptide Bonds through Hypervalent Iodine-Mediated Hofmann Rearrangement in Neutral Aqueous Solution”** Kana Tanabe, Atsuhiko Taniguchi, Takuya Matsumoto, Kounosuke Oisaki, Youhei Sohma, and Motomu Kanai, *Chem. Sci.* **2014**, *5*, 2747.
2. **“Serine-Selective Aerobic Cleavage of Peptides and a Protein Using a Water-Soluble Copper-Organoradical Conjugate”** Yohei Seki, Kana Tanabe, Daisuke Sasaki, Youhei Sohma, Kounosuke Oisaki, and Motomu Kanai, *Angew. Chem. Int. Ed.* **2014**, Early View. DOI: 10.1002/anie.201402618
3. **“Aggregation-Induced Emission of a Liquid-Crystalline Quinolinium Salt Molecule in Aqueous Solution”** Kana Tanabe, Daisuke Kodama, Miki Hasegawa, and Takashi Kato, *Chem. Lett.* **2014**, *43*, 184.
4. **“Full-color Tunable Photoluminescent Ionic Liquid Crystals Based on Tripodal Pyridinium, Pyrimidinium, and Quinolinium Salts”** Kana Tanabe, Yuko Suzui, Miki Hasegawa, and Takashi Kato, *J. Am. Chem. Soc.* **2012**, *134*, 5652.
5. **“A Redox-Switchable [2]Rotaxane in a Liquid-Crystalline State”** Takuma Yasuda, Kana Tanabe, Toru Tsuji, Karla K. Coti, Ivan Aprahamian, J. Fraser Stoddart, and Takashi Kato, *Chem. Commun.* **2010**, *46*, 1224.
6. **“Self-assembly of Cyclobis(paraquat-*p*-phenylene)s”** Kana Tanabe and Takashi Kato, *Chem. Commun.* **2009**, 1864.
7. **“Luminescent Ionic Liquid Crystals Based on Tripodal Pyridinium Salts”** Kana Tanabe, Takuma Yasuda, and Takashi Kato, *Chem. Lett.* **2008**, *39*, 1208.
8. **“Viologen-Based Redox-Active Ionic Liquid Crystals Forming Columnar Phases”** Kana Tanabe, Takuma Yasuda, Masafumi Yoshio, and Takashi Kato, *Org. Lett.* **2007**, *9*, 4271.

Review Papers

1. **“Stimuli-Responsive Photoluminescent Liquid Crystals”** Shogo Yamane, Kana Tanabe, Yoshimitsu Sagara, and Takashi Kato *Top. Curr. Chem.* **2012**, *318*, 395.
2. **“Electro- and Photo-Active Molecular Assemblies of Liquid Crystals and Physical Gels”** Takashi Kato and Kana Tanabe, *Chem. Lett.* **2009**, *38*, 634.