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**Education**

2010 B. S. in Chemistry (Tohoku University)

2011 July - 2011 September: Scholarship from Fellowship of International Quality Network – Medicinal Chemistry (IQN-MC), University of Regensburg, Germany (Prof. O. Reiser)

2012 M. S. in Chemistry (Tohoku University)

2014 Ph. D. in Chemistry (Tohoku University)

**Academic Experience**

2012-2014: JSPS Research Fellowship for Young Scientists (DC1)

2014-2016: Assistant Professor, WPI-AIMR, Tohoku University

2014-Present: Researcher, ERATO Isobe Degenerate π-Integration Project, JST

2016-Present: Project Assistant Professor, Department of Chemistry, The University of Tokyo

**Awards and Honors**

2009: Ogino Hiroshi, Kazuko Award (Department of Chemistry, Tohoku University)

2013: Otsu Academy Award Fellow (No. 51)

**List of Publications**

1. Self-sorting of two hydrocarbon receptors with one carbonaceous ligand, Matsuno, T.; Sato, S.; Yokoyama, A.; Kamata, S.; Isobe, H. *Angew. Chem. Int. Ed.* **2016**, *55* (49), 15339-15343.
2. Synthesis and dynamic structures of a hybrid nanohoop molecule composed of anthanthrenylene and phenylene panels, Sarkar, P.; Sato, S.; Kamata, S.; Matsuno, T.; Isobe, H. *Chem. Lett.* **2015**, *44* (11), 1581-1583.

3. Modulation of energy conversion processes in carbonaceous molecular bearings, Hitosugi, S.; Ohkubo, K.; Kawashima, Y.; Matsuno, T.; Kamata, S.; Nakamura, K.; Kono, H.; Sato, S.; Fukuzumi, S.; Isobe, H. *Chem. Asian J.* **2015**, *10* (11), 2404-2410.
4. Molecular recognition in curved π-systems: Effects of π-lengthening of tubular molecules on thermodynamics and structures, Matsuno, T.; Iizuka, R.; Sato, S.; Isobe, H. *Chem. Sci.* **2015**, *6* (2), 909-916.
5. Geometric measures of finite carbon nanotube molecules: A proposal for length index and filling indexes, Matsuno, T.; Naito, H.; Hitosugi, S.; Sato, S.; Kotani, M.; Isobe, H. *Pure Appl. Chem.* **2014**, *86* (4), 489-495.
6. Bottom-up synthesis and structures of π-lengthened tubular macrocycles, Matsuno, T.; Kamata, S.; Hitosugi, S.; Isobe, H. *Chem. Sci.* **2013**, *4* (8), 3179-3183.
7. $Cu(dap)_2Cl$ as efficient visible-light-driven photoredox catalyst in carbon-carbon bond-forming reactions, Pirtsch, M.; Paria, S.; Matsuno, T.; Isobe, H.; Reiser, O. *Chem. Eur. J.* **2012**, *18* (24), 7336-7340.
8. 2,11-Dibromo-5,8-dibutyl[4]helicene, Isobe, H.; Matsuno, T.; Hitosugi, S.; Nakanishi, W. *Acta Crystallogr., Sect. E: Struct. Rep. Online* **2012**, *E68* (4), o1239.
9. Iridium-catalyzed direct borylation of phenacenes, Hitosugi, S.; Nakamura, Y.; Matsuno, T.; Nakanishi, W.; Isobe, H. *Tetrahedron Lett.* **2012**, *53* (9), 1180-1182.
10. Illusory molecular expression of "Penrose stairs" by an aromatic hydrocarbon, Nakanishi, W.; Matsuno, T.; Ichikawa, J.; Isobe, H. *Angew. Chem. Int. Ed.* **2011**, *50* (27), 6048-6051.
11. Concise synthesis of halogenated chrysenes ([4]phenacenes) that favor π-stack packing in single crystals, Isobe, H.; Hitosugi, S.; Matsuno, T.; Iwamoto, T.; Ichikawa, J. *Org. Lett.* **2009**, *11* (17), 4026-4028.