SUNG KYUN KWAN UNIVERSITY(SKKU)

YUN Jaesook

Professor
Department of Chemistry

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Key Words

Organic Chemistry, Catalysis, Asymmetric Synthesis, Transition-Metal

Research Area

My research interests include the development of efficient organic synthetic methodologies based on transition metal-catalysis, asymmetric organic synthesis, polymer, and synthesis of organometallic complexes in search of new reactivity.

Education

• 2001	PhD	MIT, USA
• 1995	MSc	Seoul National University, Korea
• 1993	BSc	Seoul National University, Korea

Experience

- 2011 Sep – 2012 Aug Visiting Professor, University of Michigan, USA
- 2005 Sep – Present Professor, Dept. of Chemistry, Sungkyunkwan University
- 2002 Sep – 2005 Aug Assistant Professor, Dept. of Chemistry, Ajou University
- 2001 Oct – 2002 Aug Postdoctoral Fellow, California Institute of Technology, USA

Position

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Selected Publication

- “Asymmetric Catalytic Borylation of α,β--Unsaturated Acceptors” *Topics in Organomet. Chem.* **2015**, *49*, 73–92.
- “Copper(I)-Taniaphos Catalyzed Enantiodivergent Hydroboration of Bicyclic Alkenes”*Org. Lett.* **2015**, *17*, 764–766.
- “Regio- and Enantioselective Copper(I)-catalyzed Hydroboration of Borylalkenes: Asymmetric Synthesis of 1,1-Diborylalkanes” *Angew. Chem. Int. Ed.* **2013**, *52*, 3989–3992.
- "Highly Regio- and Stereoselective Synthesis of Alkenylboronic Esters by Copper-catalyzed Boron Additions to Disubstituted Alkynes"*Chem. Commun.* **2011**, *47*, 2943–2945.
- "Asymmetric synthesis of 1,1-diarylalkyl units by a copper hydride catalyzed reduction: differentiation between two similar aryl substituents"*Chem. Eur. J.* **2009**, *15*, 11134–11138. (**Cover Journal**).
- "Highly Regio- and Enantioselective Copper-Catalyzed Hydroboration of Styrenes"*Angew. Chem. Int. Ed.* **2009**, *48*, 6062–6064.
- "Catalytic Asymmetric Boration of Acyclic α,β-Unsaturated Esters and Nitriles" *Angew. Chem. Int. Ed.* **2008**, *47*, 145–147. **(VIP & Inside Cover journal)**
- "Highly Enantioselective Conjugate Reduction of β,β-Disubstituted α,β-Unsaturated Nitriles" *Angew. Chem. Int. Ed.* **2006**, *45*, 2785–2787.

Others

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