

Professor Ying-Yeung YEUNG

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Ying-Yeung Yeung received his B.Sc. (2001) at The Chinese University of Hong Kong. He continued his graduate research in the same university under the supervision of Prof. Tony K. M. Shing. After four years research dedicated to natural product synthesis, Dr. Yeung moved to the USA to conduct postdoctoral research with Prof. E. J. Corey at Harvard University. In 2008, he joined National University of Singapore, Department of Chemistry. In 2015, he moved to The Chinese University of Hong Kong as an Associate Professor. He has become full Professor in 2019. His research interests include asymmetric catalysis, green oxidation, and methodology development.

Education and Employment History

2016-present **Department Chairman**

Department of Chemistry, The Chinese University of Hong Kong

2019-present **Professor**

Department of Chemistry, The Chinese University of Hong Kong

2015-2019 **Associate Professor**

Department of Chemistry, The Chinese University of Hong Kong

2014-2015 **Assistant Head**

Department of Chemistry, National University of Singapore

2014-2015 **Associate Professor**

Department of Chemistry, National University of Singapore

2008-2013 **Assistant Professor**

Department of Chemistry, National University of Singapore

2005-2008 **Post-doc (Advisor: Prof. Elias J. Corey)**

Department of Chemistry and Chemical Biology, Harvard University

2001-2005 **Ph.D. (Advisor: Prof. Tony K. M. Shing)**

Department of Chemistry, The Chinese University of Hong Kong

1998-2001 **B.Sc. (First Class Honors)**

Department of Chemistry, The Chinese University of Hong Kong

Awards

1999	Shaw College Certificate of Academic Merit
2000	Shaw College Lam Kin Chung Department Scholarships
2000	The Chinese University of Hong Kong Faculty of Science Dean's honors List
2001	Dr. James C.N. Ma Memorial Scholarship
2002	The Chinese University of Hong Kong Faculty of Science Dean's honors List
2005	CUHK Young Scholars Dissertation Awards
2010	Asian Core Program Lectureship Award (Japan)
2011	Asian Core Program Lectureship Award (Thailand)
2011	Thieme Chemistry Journal Award
2012	Asian Core Program Lectureship Award (Korea, China)
2013	Chemistry Research Promotion Center/NSC Lectureship (Taiwan)
2014	Asian Core Program Lectureship Award (Hong Kong)
2014	Young Chemist Award, Department of Chemistry, National University of Singapore
2014	Young Investigator Award, Faculty of Science, National University of Singapore
2015	MIT Technology Review Innovator Under 35 (Asia)
2017	Asian Core Program Lectureship Award (Japan, Taiwan)
2017	Exemplary Teaching Award
2019	Young Researcher Award, The Chinese University of Hong Kong
2019	Asian Rising Star Lectureship, Asian Chemical Congress 2019

Selected Publications

1. "Access to chiral bisphenol (BPOL) ligands through desymmetrizing asymmetric ortho-selective mono-halogenation"
Xiaodong Xiong, Tianyu Zheng, Xinyan Wang Ying-Lung Steve Tse, Ying-Yeung Yeung* *Chem* **2020**, DOI: 10.1016/j.chempr.2020.01.009 .
2. "Amide/Iminium Zwitterionic Catalysts for (Trans)esterification: Application in Biodiesel Synthesis"
Ying-Pong Lam, Xinyan Wang, Fei Tan, Wing-Hin Ng, Ying-Lung Steve Tse, Ying-Yeung Yeung* *ACS. Catal.* **2019**, 9, 8083-8092.
3. "Applications of Selenonium Cations as Lewis Acids in Organocatalytic Reactions"
Xinxin He, Xinyan Wang, Ying-Lung (Steve) Tse, Zhihai Ke, Ying-Yeung Yeung*

Angew. Chem. Int. Ed. **2018**, *57*, 12869-12873.

4. "Halogen Bond Catalyzed Bromocarbocyclization"
Yuk-Cheung Chan, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.* **2018**, *57*, 3483-3487.
5. "Ammonium Salt-Catalyzed Highly Practical *Ortho*-Selective Monohalogenation and Phenylselenation of Phenols: Scope and Applications"
Xiaodong Xiong, Ying-Yeung Yeung* *ACS Catal.* **2018**, *8*, 4033-4043. (Cover page)
6. "Lewis Base-Promoted Ring-Opening 1,3-Dioxygenation of Unactivated Cyclopropanes using Hypervalent Iodine Reagent"
Matthew H. Gieuw, Zhihai Ke, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.* **2018**, *57*, 3782-3786.
7. "Desymmetrizing Enantio- and Diastereoselective Selenoetherification through Supramolecular Catalysis"
Jie Yang See, Hui Yang, Yu Zhao, Ming Wah Wong, Zhihai Ke, Ying-Yeung Yeung* *ACS. Catal.* **2018**, *8*, 850-858.
8. "Accessing Axially Chiral Biaryls via Organocatalytic Enantioselective Dynamic-Kinetic Resolution-Semipinacol Rearrangement"
Yi Liu, Ying-Lung Steve Tse, Fuk Yee Kwong, Ying-Yeung Yeung* *ACS Catal.* **2017**, *7*, 4435-4440.
9. "Highly *ortho*-Selective Chlorination of Anilines Using a Secondary Ammonium Salt Organocatalyst"
Xiaodong Xiong, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.*, **2016**, *55*, 16101-16105.
10. "Indole-Catalyzed Bromolactonization in Lipophilic Solvent: A Solid-Liquid Phase Transfer Approach"
Tao Chen, Thomas Jian Yao Foo, Ying-Yeung Yeung* *ACS Catal.*, **2015**, *5*, 4751-4755. (**Highlighted in Organocatalysis-ACS Select Virtual Issue 2015**)
11. "Carbamate-Catalyzed Enantioselective Bromolactamization"
Yi An Cheng, Wesley Zongrong Yu, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.*, **2015**, *54*, 12102-12106.
12. "Amino-thiocarbamate Catalyzed Enantioselective Desymmetrizing Bromoetherification of Diolefinic Diols—Application to the Synthesis of Novel Chiral Spirocycles"
Daniel Weiliang Tay, Gulice Yiu Chung Leung, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.*, **2014**, *53*, 5161-5164. (**Highlighted in Synfact May 2014**)

13. "Catalytic Asymmetric Bromoetherification and Desymmetrization of Olefinic 1,3-Diols with C_2 -Symmetric Sulfides"
Zhihai Ke, Chong Kiat Tan, Feng Chen, Ying-Yeung Yeung* *J. Am. Chem. Soc.*, **2014**, *136*, 5627. **(Highlighted in Synfact June 2014)**
14. "Catalytic Enantioselective and Highly Chemoselective Bromocyclization of Olefinic Dicarboxyl Compounds"
Yi Zhao, Xiaojian Jiang, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.* **2013**, *52*, 8597.
15. " C_2 -Symmetric Cyclic Selenium-Catalyzed Enantioselective Bromoaminocyclization"
Feng Chen, Chong Kiat Tan, Ying-Yeung Yeung* *J. Am. Chem. Soc.* **2013**, *135*, 1232-1235.
(Highlighted in Synfact Apr 2013)
16. "Efficient Medium Ring Size Bromolactonization Using a Sulfur-Based Zwitterionic Organocatalyst"
Yi An Cheng, Tao Chen, Chong Kiat Tan, Jun Jie Heng, Ying-Yeung Yeung* *J. Am. Chem. Soc.* **2012**, *134*, 16492-16495.
17. "Enantioselective Synthesis of 2-Substituted and 3-Substituted Piperidines through a Bromoaminocyclization Process"
Ling Zhou, Daniel Weiliang Tay, Jie Chen, Gulice Yiu Chung Leung, Ying-Yeung Yeung* *Chem. Commun.* **2013**, *49*, 4412-4414.
(Emerging Investigator Issue 2013)
18. "Bromolactonization of olefinic acids using non-classical *S*-alkyl thiocarbamate catalyst"
Xiaojian Jiang, Chong Kiat Tan, Ling Zhou, Ying-Yeung Yeung* *Angew. Chem. Int. Ed.* **2012**, 7771-7775.
(Highlighted in Synfact Sep 2012)
19. "Enantioselective Bromoaminocyclization Using Amino-Thiocarbamate Catalysts"
Ling Zhou, Jie Chen, Chong Kiat Tan, and Ying-Yeung Yeung* *J. Am. Chem. Soc.* **2011**, *133*, 9164-9167. (citation: 20)
(Cover Page in J. Am. Chem. Soc. 2011, June issue)
(Highlighted in Synfact July 2011)
20. "Asymmetric Bromolactonization Using Amino-Thiocarbamate Catalyst"
Ling Zhou, Chong Kiat Tan, Xiaojian Jiang, Feng Chen and Ying-Yeung Yeung* *J. Am. Chem. Soc.* **2010**, *132*, 15474-15476. (citation: 40)
(Highlighted in Synfact Jan 2011)
(Most-access article in Oct 2010)

21. "Facile, Efficient, and Catalyst Free Electrophilic Aminoalkoxylation of Olefins: Scope and Application"

Ling Zhou, Chong Kiat Tan, Jing Zhou and Ying-Yeung Yeung* *J. Am. Chem. Soc.* **2010**, *132*, 10245-10247. (citation: 6)