Zhipeng Zhang

Department: School of Chemistry and Molecular Engineering

Professional field: Organic Chemistry

E-mail: zhipengzhang@ecust.edu.cn

Profile

- 2000/09 – 2004/07 B. S. in chemistry, Shandong University (China)
- 2004/09 – 2010/01 Ph.D. in organic chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences (China), Supervisor: Prof. Dr. Kuiling Ding
- 2010/04 – 2011/01 Project leader in process chemistry, Shanghai Desano Chemical Pharmaceutical Co., Ltd. (China)
- 2011/03 – 2014/02 Postdoctoral research associate in homogeneous catalysis, Max-Planck-Institut fuer Kohlenforschung (Germany), Supervisor: Prof. Dr. Benjamin List
- 2014/06 – 2016/10 Postdoctoral research associate in C–H activation, The Scripps Research Institute (United States), Supervisor: Prof. Dr. Jin-Quan Yu
- 2016/10 – 2017/10 Postdoctoral research associate in medicinal chemistry, Genomics Institute of the Novartis Research Foundation (United States), Supervisor: Dr. Phillip Alper
- 2017/11 – now, Professor, Group Leader, School of Chemistry and Molecular Engineering, East China University of Science and Technology (China)

Research Field

Organic Chemistry, homogeneous catalysis, asymmetric catalysis, transition metal catalysis, organocatalysis, C–H activation.

Research results and selected published papers

- Z. Zhang, M. Ratnikov, G. Spraggon, P. B. Alper*, Photoinduced Rearrangement of Dienones and Santonin Rerouted by Amines. Angew. Chem. Int. Ed. 2018, 57, 904 –908
- Z. Zhang#, K. Tanaka#, J.-Q. Yu*, Remote site-selective C–H activation directed by a catalytic bifunctional template. Nature 2017, 543, 538–542. (#:equal contribution)
- Z. Zhang, H. Y. Bae, J. Guin, C. Rabalakos, M. van Gemmeren, M. Leutzsch, M. Klussmann, B. List*, Asymmetric counteranion-directed Lewis acid organocatalysis for the scalable cyanosilylation of aldehydes. Nat. Commun. 2016, 7:12478.
- Z. Zhang, Z. Wang, R. Zhang, K. Ding*, An Efficient Titanium Catalyst for Enantioselective Cyanation of Aldehydes: Cooperative Catalysis. Angew. Chem. Int. Ed. 2010, 49, 6746–6750. (VIP)