

黄汉民，中国科学院兰州化学物理研究所羰基合成与选择氧化国家重点实验室，研究员，博士生导师



1974 年出生，湖北浠水人。2003 年于中科院大连化学物理研究所获得有机化学博士学位，2004 年至 2008 年在日本名古屋大学物质科学国际研究中心从事博士后研究，期间获得 JSPS-Fellow 基金支持。2008 年 4 月起在兰州化学物理研究所开始从事独立研究工作，建立了有机合成研究小组，并入选中科院“百人计划”。主要研究领域为导向有机合成的金属有机化学研究，在不对称催化和惰性键的选择性活化方面开展研究工作，开展新一代的新型亲核加成反应化学研究。主要包括新型高效不对称催化体系的设计和应用，过渡金属催化的、基于惰性键活化的 C-C, C-N 及 C-杂原子键的形成反应的构建。近年来，作为第一作者或通讯作者已在 *J. Am. Chem. Soc.* (4 篇); *Angew. Chem. Int. Ed.* (3 篇); *Chem. Eur. J.*; *Org. Lett.*; *Adv. Synth. Catal.*; *J. Org. Chem.* 等刊物上发表研究论文 50 多篇，授权中国专利 2 项，申请中国专利 8 项，世界专利 1 项。2012 年获得国家自然科学基金“优秀青年基金”的资助。

代表性论文

1. Yinjun Xie, Jianhua Hu, Yanyu Wang, Chungu Xia, and **Hanmin Huang***, Palladium-Catalyzed Vinylation of Aminals with Simple Alkenes: A New Strategy to Construct Allylamines. *J. Am. Chem. Soc.* **2012**, *134*, 20613-20616.
2. Pan Xie, Yinjun Xie, Bo Qian, Han Zhou, Chungu Xia, and **Hanmin Huang***, Palladium-Catalyzed Oxidative Carbonylation of Benzylic C-H Bonds via Nondirected C(sp³)-H Activation. *J. Am. Chem. Soc.* **2012**, *134*, 9902-9905.
3. Dengjian Shi, Yinjun Xie, Han Zhou, Chungu Xia, and **Hanmin Huang***, A Highly Diastereo- and Enantioselective Reaction for Constructing Functionalized Cyclohexanes: Six

Contiguous Stereocenters in one Step. *Angew. Chem. Int. Ed.* **2012**, *51*, 1248-1251. (Highlight by *Chemical & Engineering News*, *Nature Chemical Biology* 和 *Synform*).

4. Yinjun Xie, Yingwei Zhao, Bo Qian, Lei Yang, Chungu Xia, and **Hanmin Huang***, Enantioselective N-H Functionalization of Indole with α,β -Unsaturated γ -Lactams Catalyzed by Brønsted Acids. *Angew. Chem. Int. Ed.* **2011**, *50*, 5682-5686. (Highlight by Synfacts, 同时被评为 2011 年 *Angew. Chem. Int. Ed.* 下载量最多的 25 篇之一, 排在第 9 位)。
5. Shengmei Guo, Yinjun Xie, Xinquan Hu, Chungu Xia, and **Hanmin Huang***, Diastereo- and Enantioselective Catalytic Tandem Michael Addition/Mannich Reaction: Access to Chiral Isoindolinones and Azetidines with Multiple Stereocenters. *Angew. Chem. Int. Ed.* **2010**, *49*, 2728-2731. (Highlight by Synfacts).
6. Bo Qian, Shengmei Guo, Jianping Shao, Qiming Zhu, Lei Yang, Chungu Xia, and **Hanmin Huang***, Palladium-Catalyzed Benzylic Addition of 2-Methyl Azaarenes to N-Sulfonyl Aldimines via C-H Bond Activation. *J. Am. Chem. Soc.* **2010**, *132*, 3650-3651.
7. Shengmei Guo, Bo Qian, Yinjun Xie, Chungu Xia, and **Hanmin Huang***, Copper-Catalyzed Oxidative Amination of Benzoxazoles via C-H and C-N Bond Activation: A New Strategy for Using Tertiary Amines as Nitrogen Group Sources. *Org. Lett.* **2011**, *13*, 522-525.
8. Bo Qian, Pan Xie, Yinjun Xie, and **Hanmin Huang***, Iron-Catalyzed Direct Alkenylation of 2-Substituted Azaarenes with N-Sulfonyl Aldimines via C-H Bond Activation. *Org. Lett.* **2011**, *13*, 2580-2583.
9. Shengmei Guo, Yinjun Xie, Xinquan Hu, and **Hanmin Huang***, Highly Diastereo- and Enantioselective Tandem Reaction toward Functionalized Pyrrolidines with Multiple Stereocenters, *Org. Lett.* **2011**, *13*, 5596-5599. (Highlight by Synfacts).
10. Qiming Zhu, Dengjian Shi, Chungu Xia, **Hanmin Huang***, Ruthenium Catalysts Containing Rigid Chiral Diamines and Achiral Diphosphanes for Highly Enantioselective Hydrogenation of Aromatic Ketones, *Chem. Eur. J.* **2011**, *17*, 7760-7763.