Ionic interactions enable electrostatic catalysis: remote stereocontrol in Pd-catalyzed cross-coupling reactions

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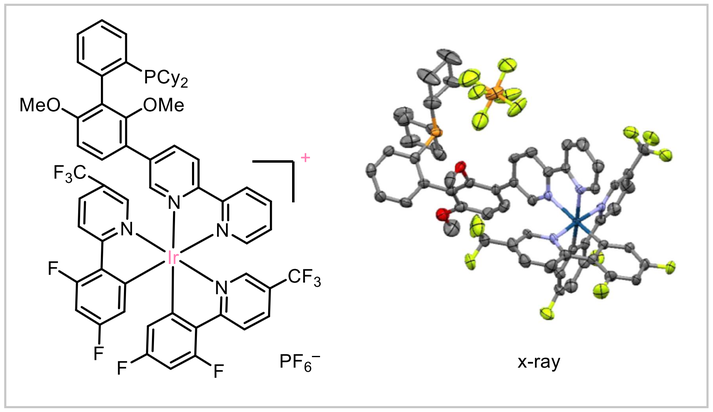
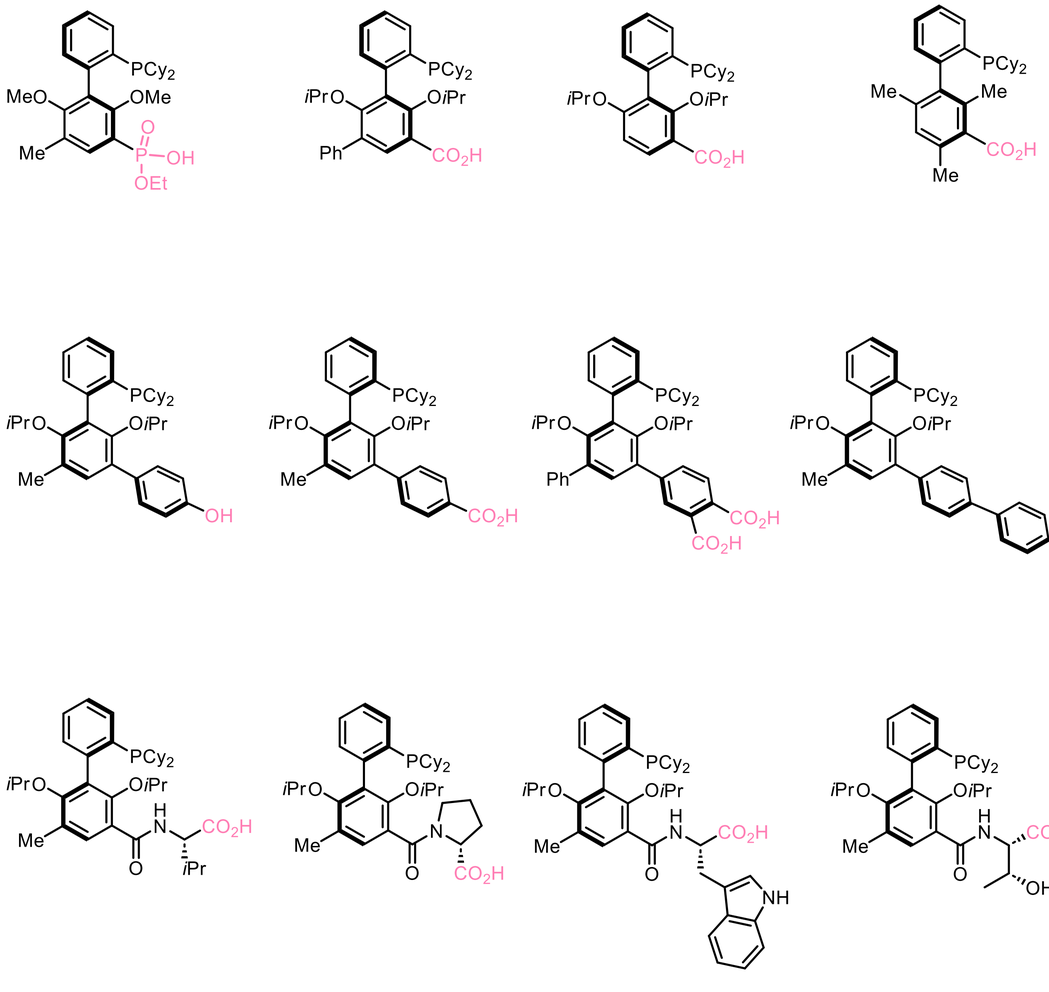
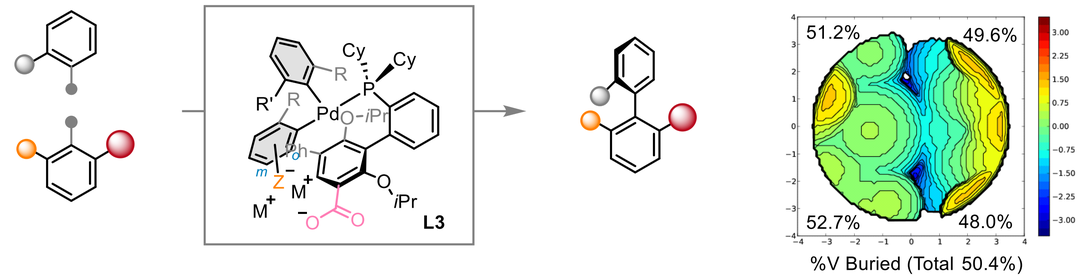
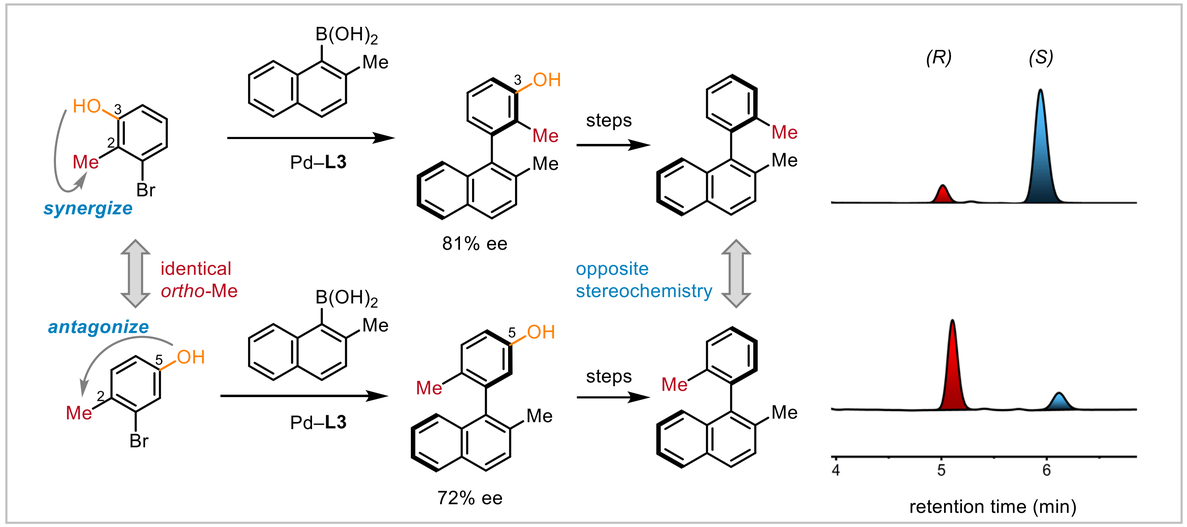
1. Chiral phosphines [1,2]

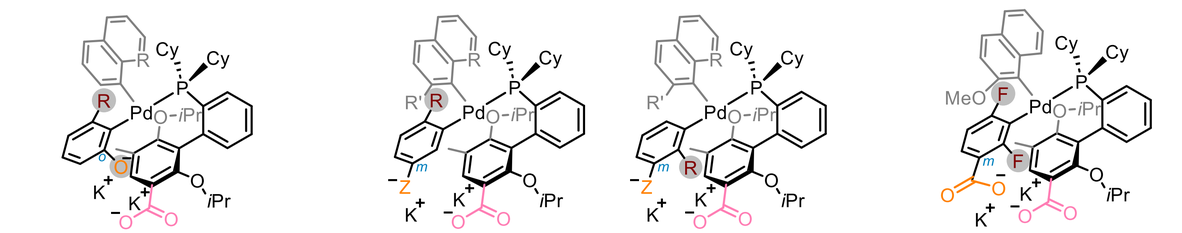


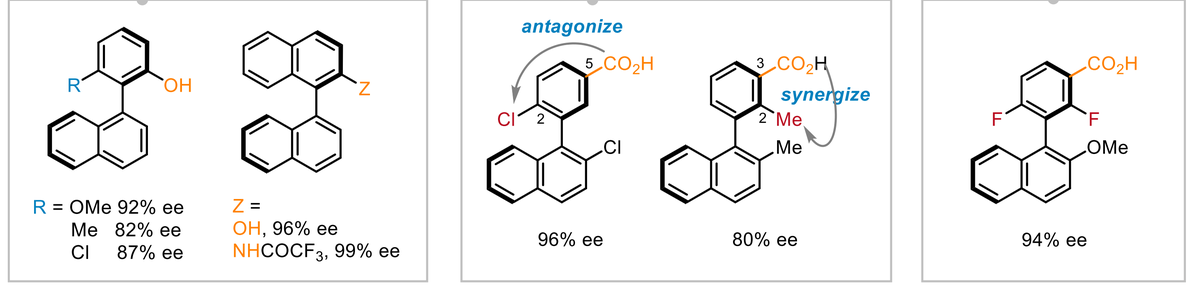


3. Axially chiral biaryls [5]

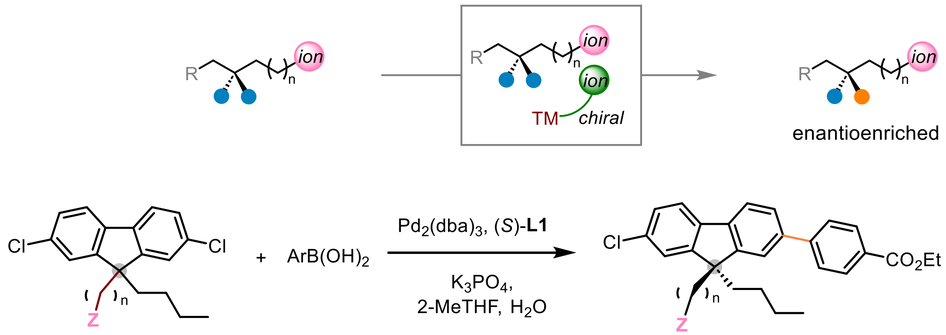


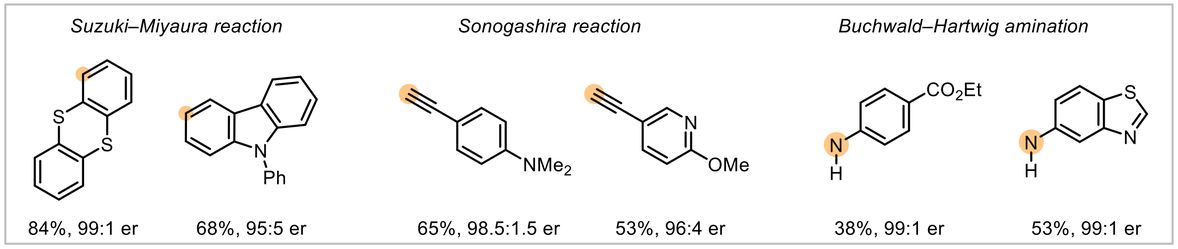


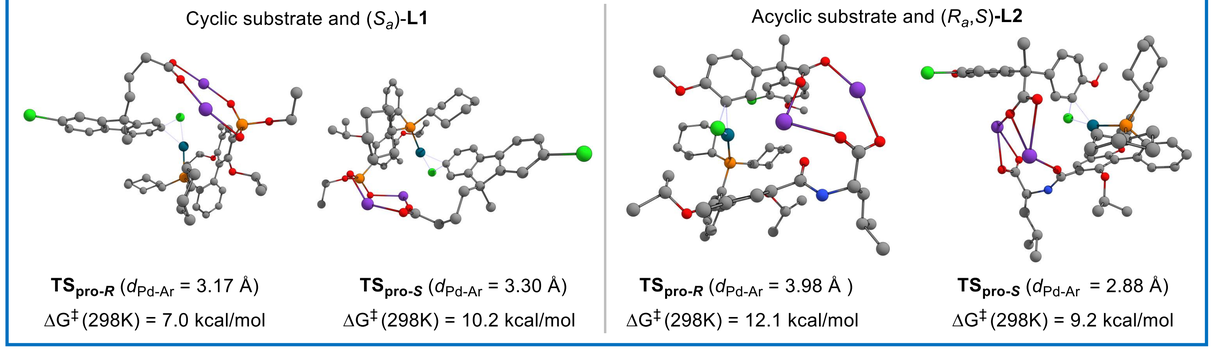




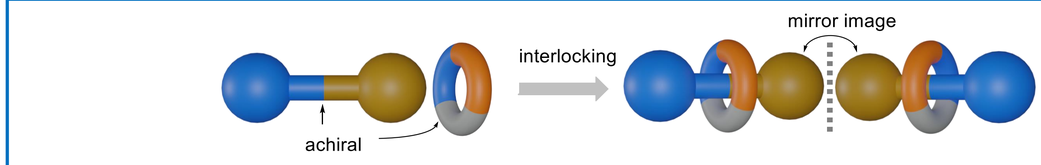
2. Carbon stereocenters [3,4]

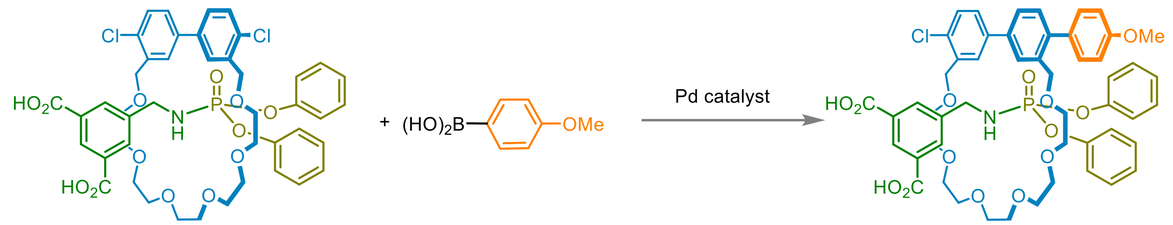


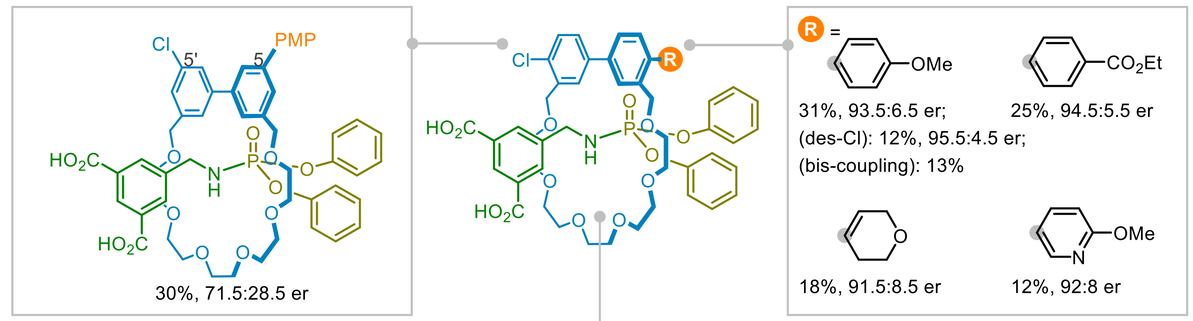


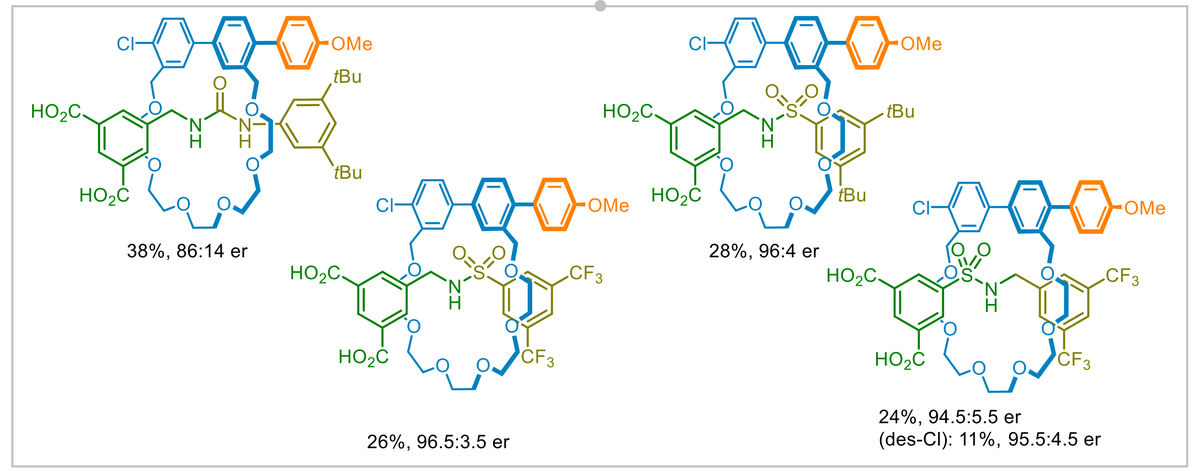


4. Mechanically planar chiral (MPC) rotaxanes [6]









Acknowledgements:

We thank Geok Kheng Tan and Irwan Iskandar Bin Roslan for solving X-ray crystal structures. We thank Professor Vincent Gandon (Université Paris-Saclay) and Professor Chong Tian (NUS Pharmacy) for collaborations. Support from National University of Singapore (NUS startup research grant A-0004522-00-00) and Singapore Ministry of Education (Academic research fund MOE2019-T2-2-139 and MOE-T2EP10222-0004) is gratefully acknowledged.

References:

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[6] Li, M., Chia, X. L., Tian, C. and Zhu, Y. (2022). Chem *8*, 2843.