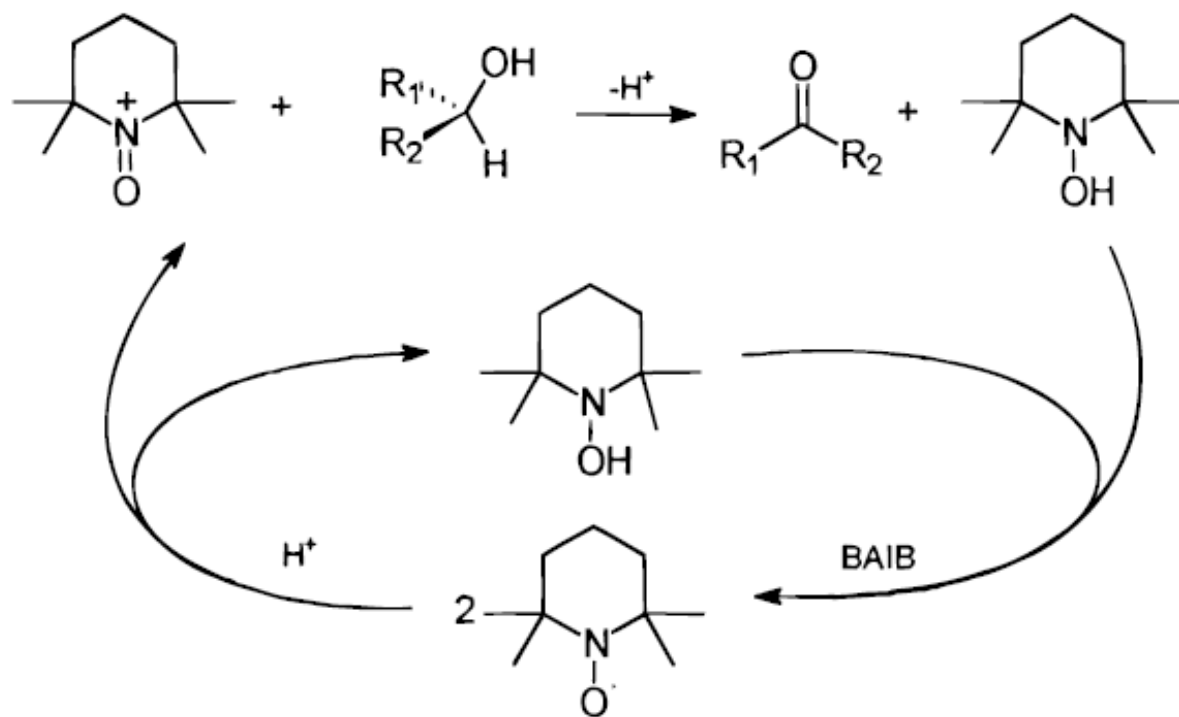
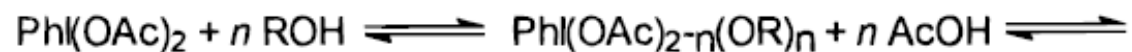


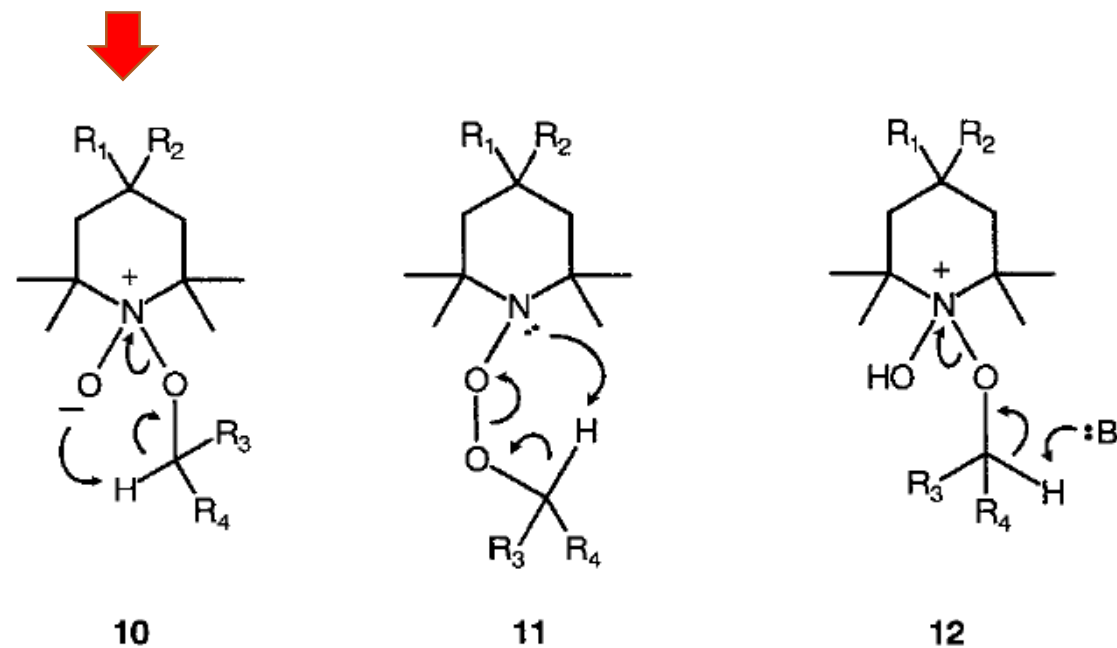
1.



Scheme 2. Proposed Reaction Pathway for the Oxidation of Alcohols with BAIB/TEMPO

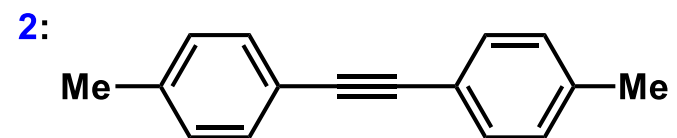
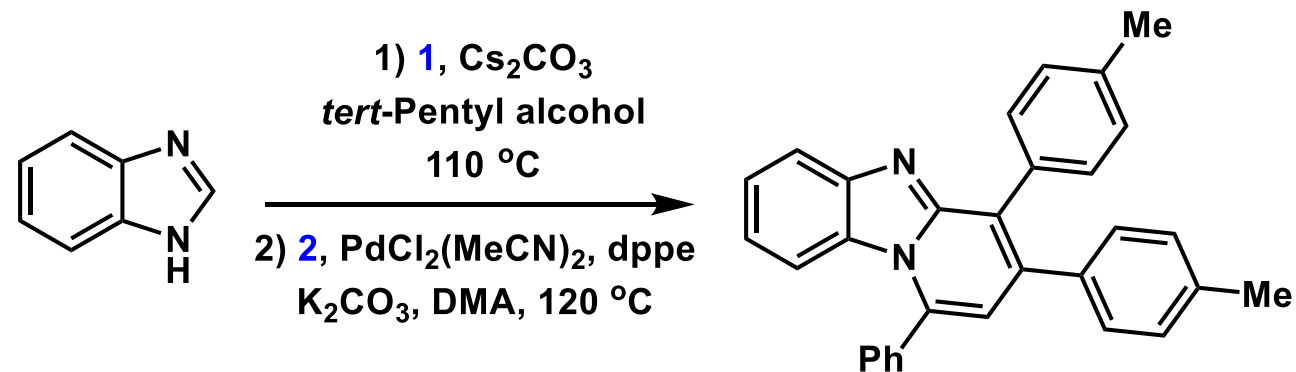


J. Org. Chem. **1997**, *62*, 6974.

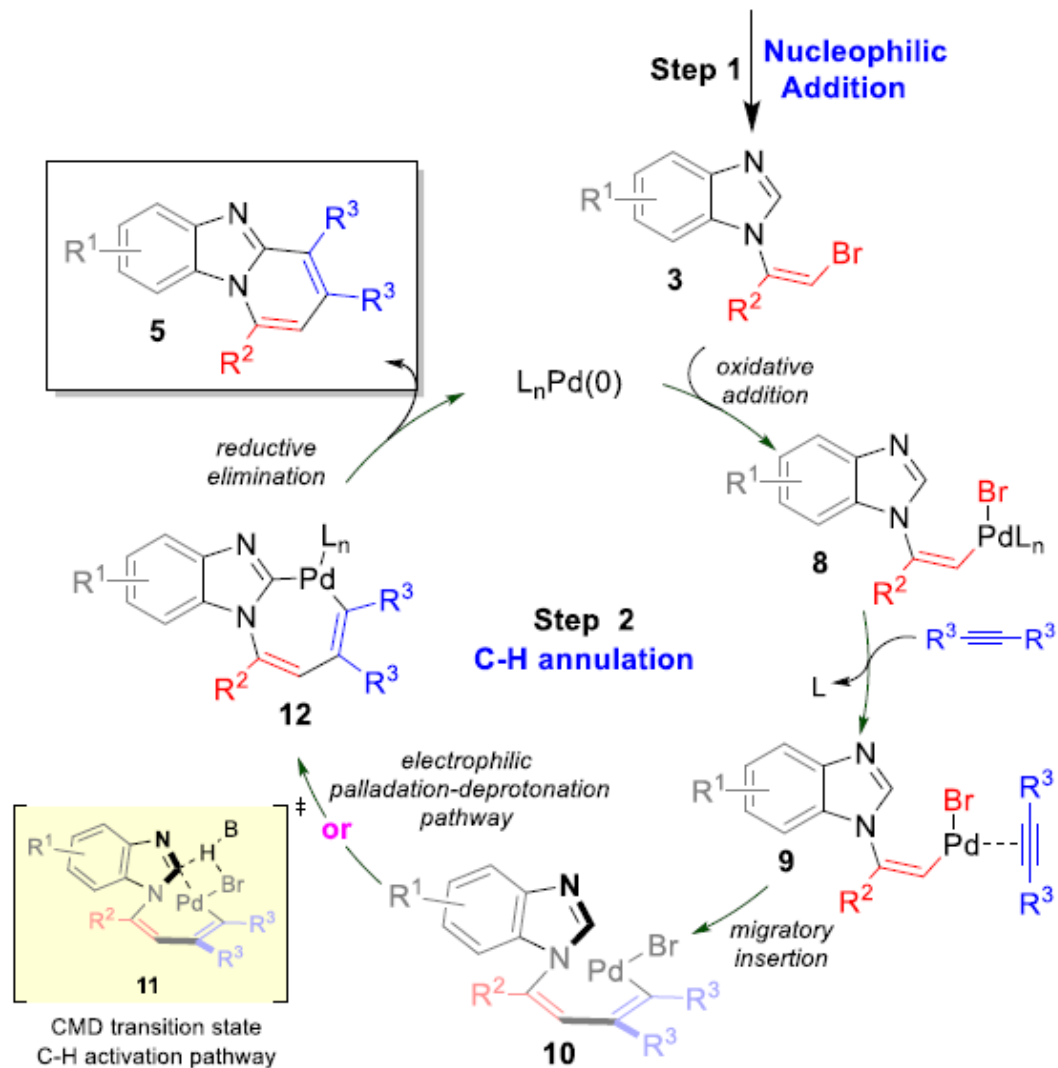
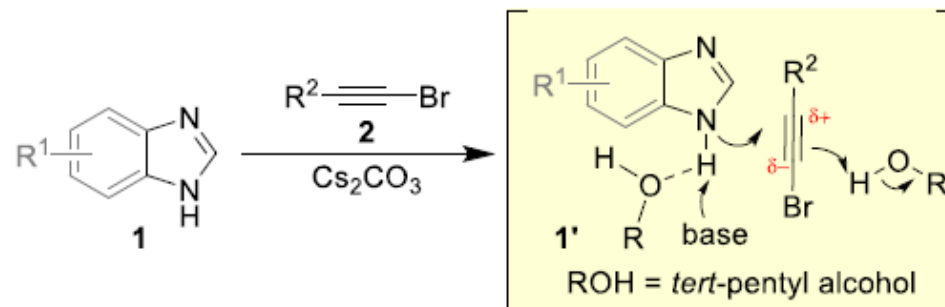


Synthesis, **1996**, *10*, 1153.

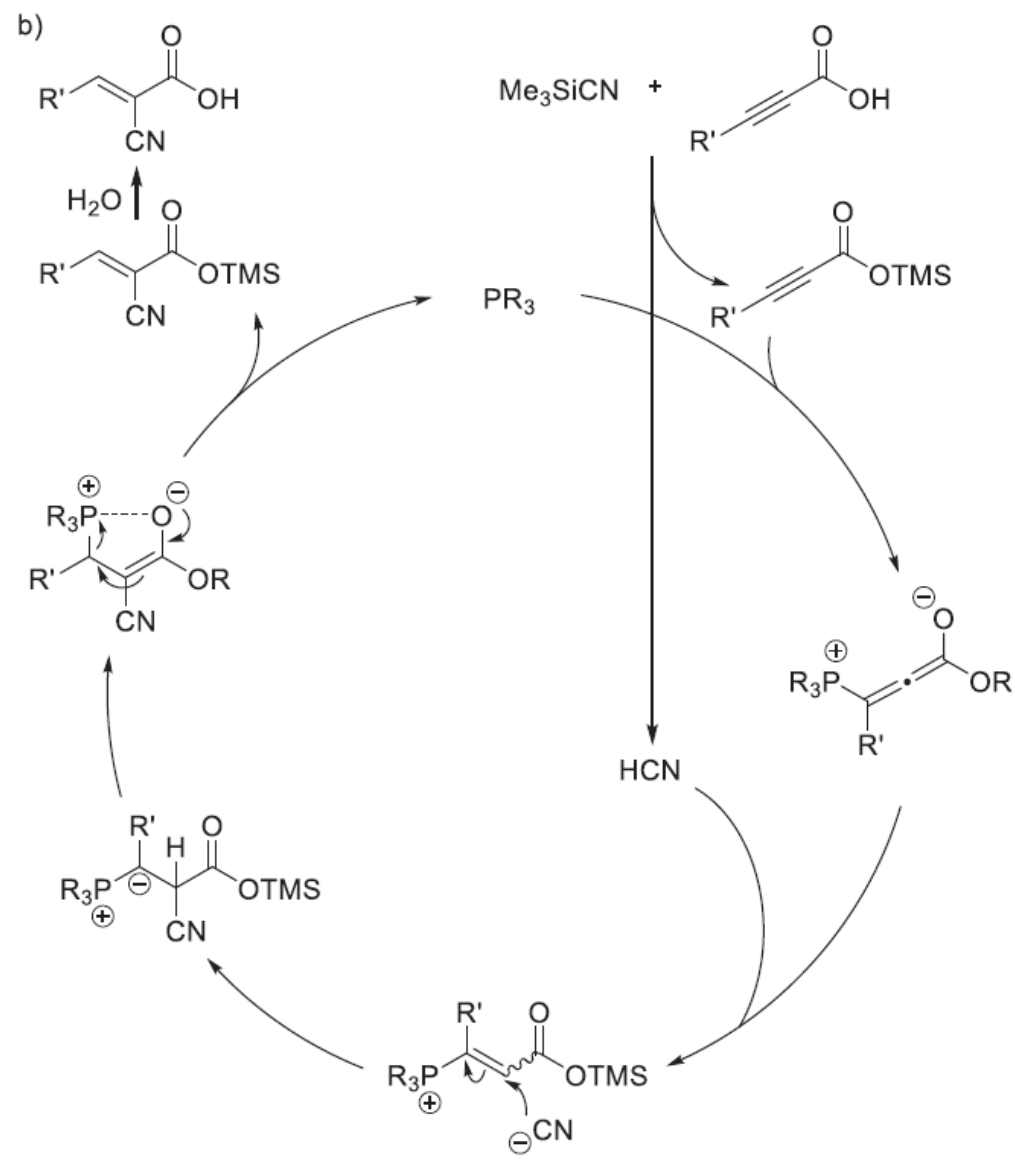
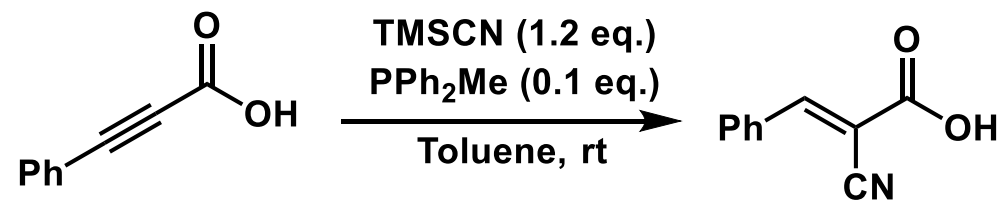
2.



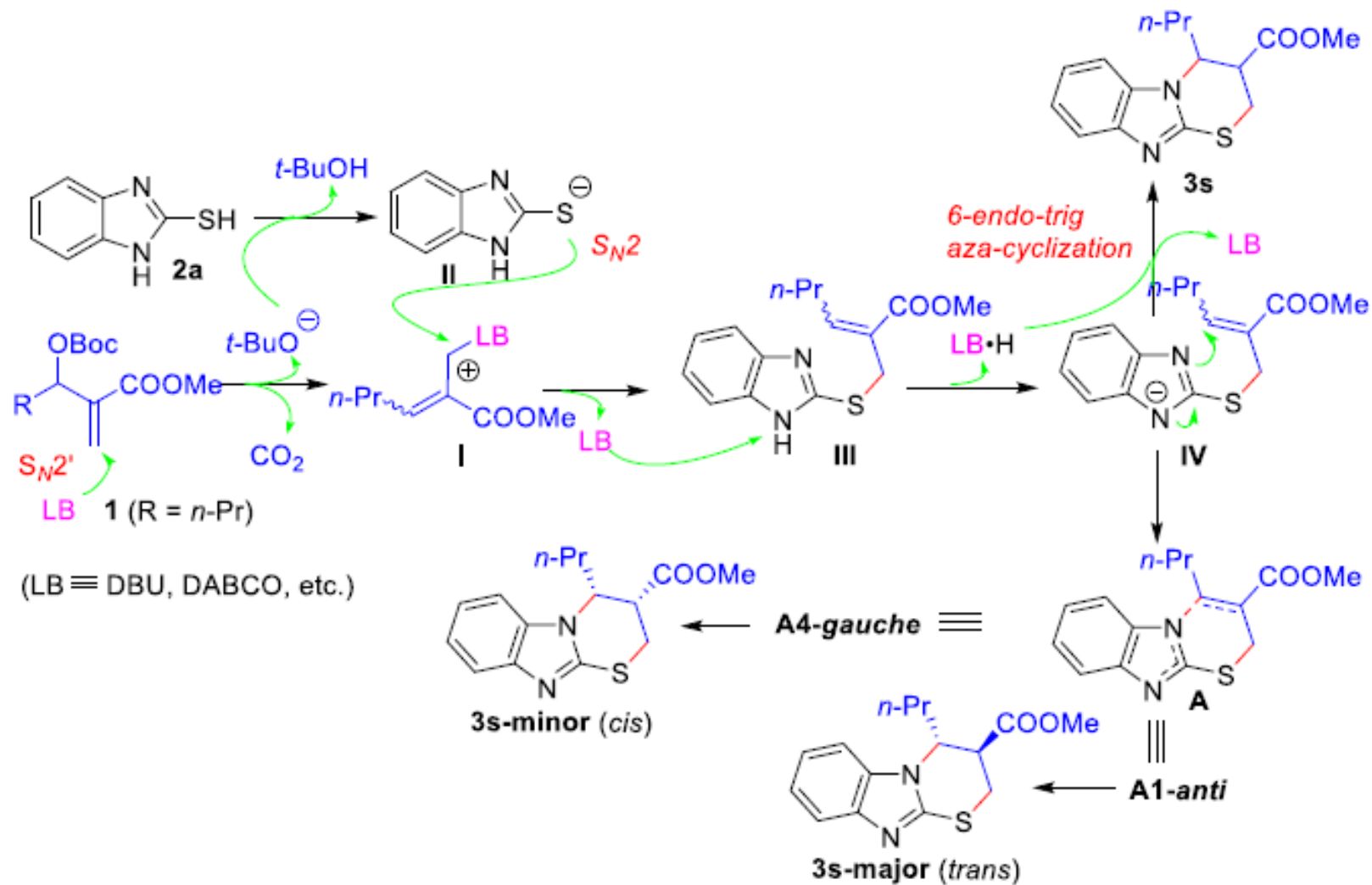
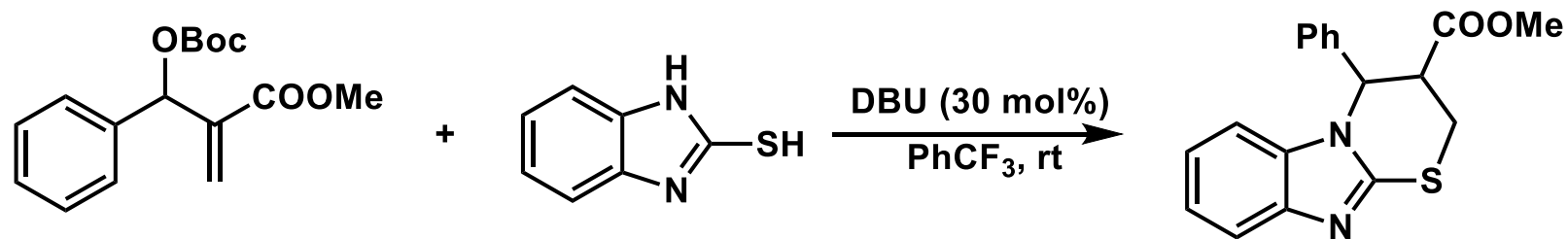
J. Org. Chem. **2021**, *86*, 352.



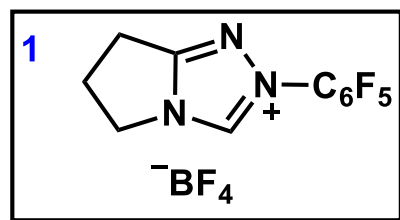
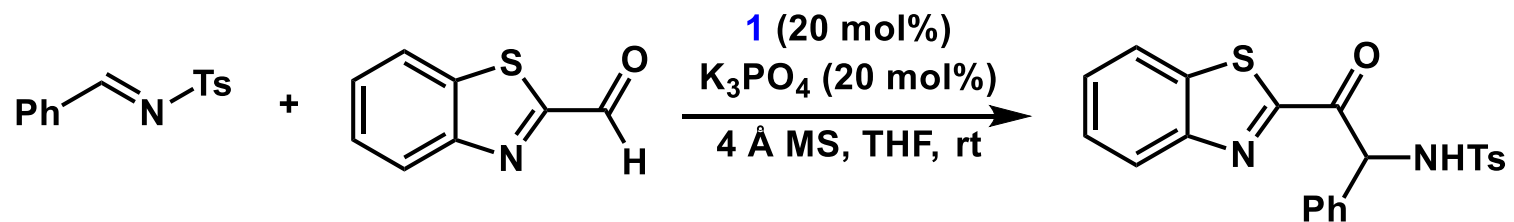
3.



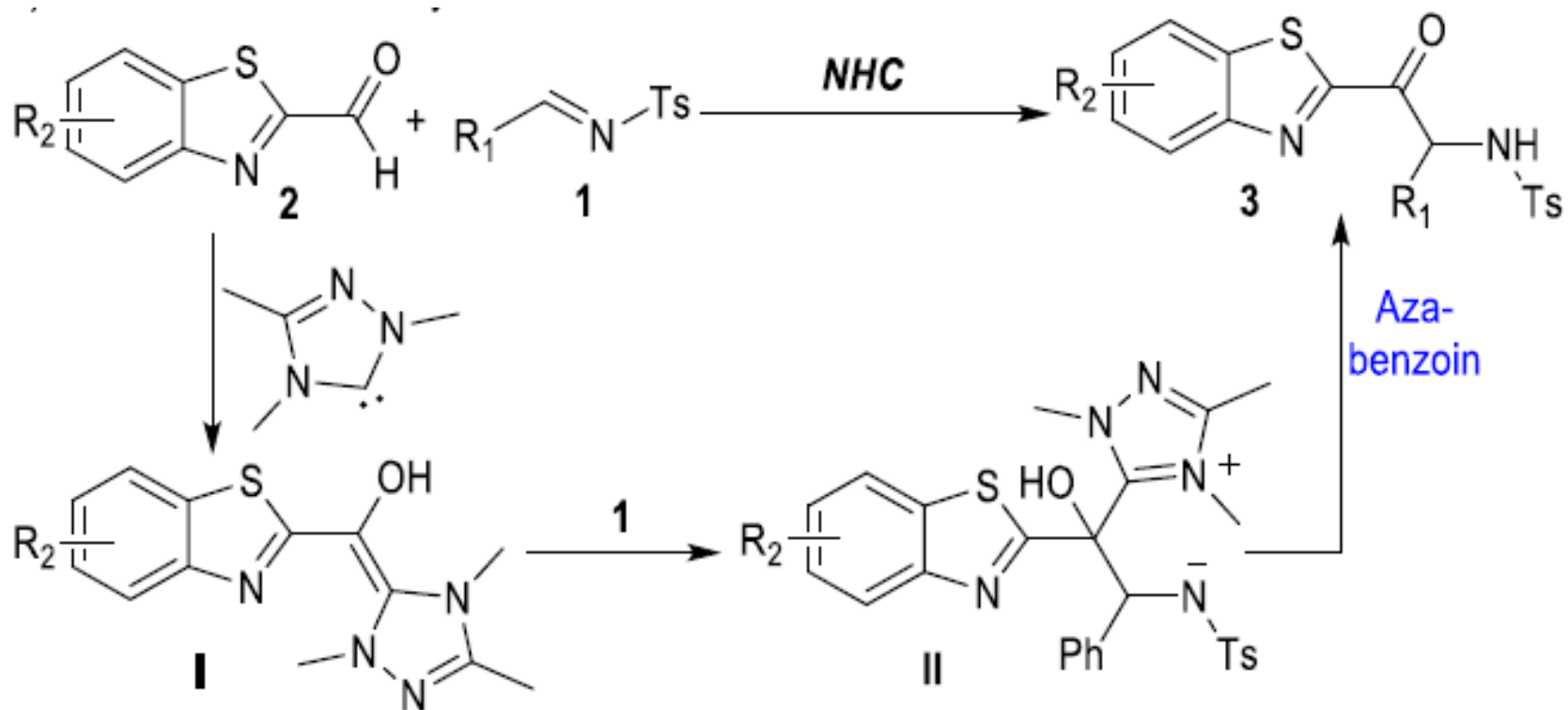
4.



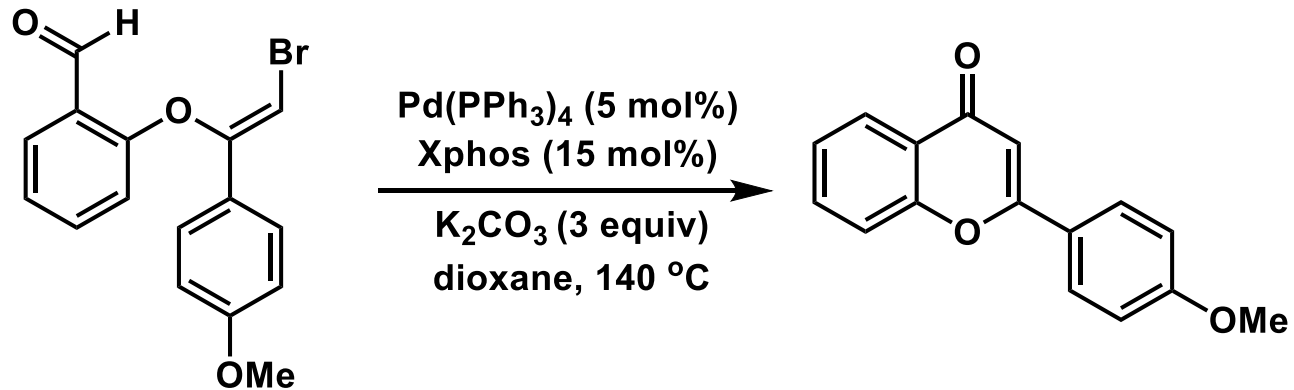
5.



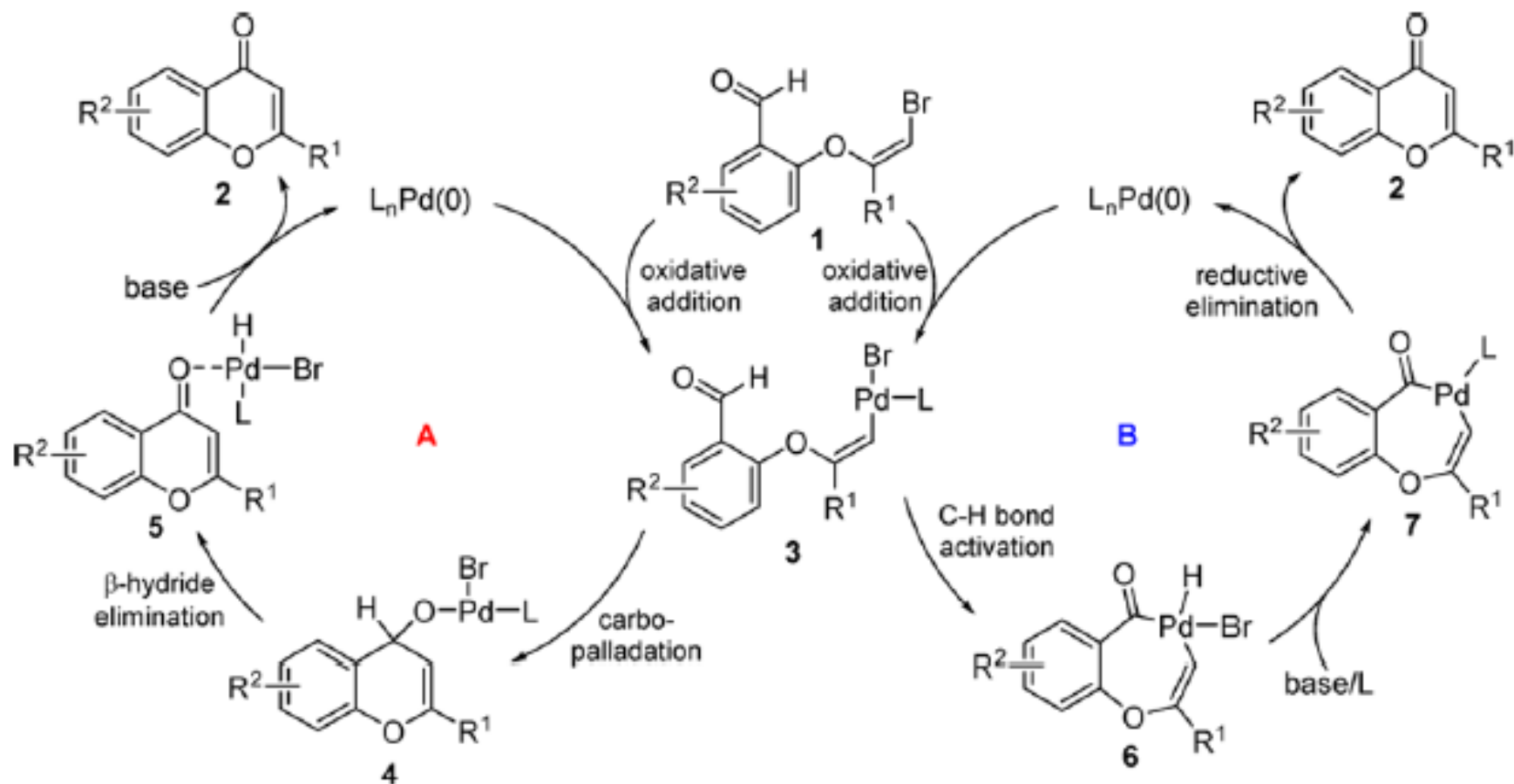
Tetrahedron, **2021**, *94*, 132311.



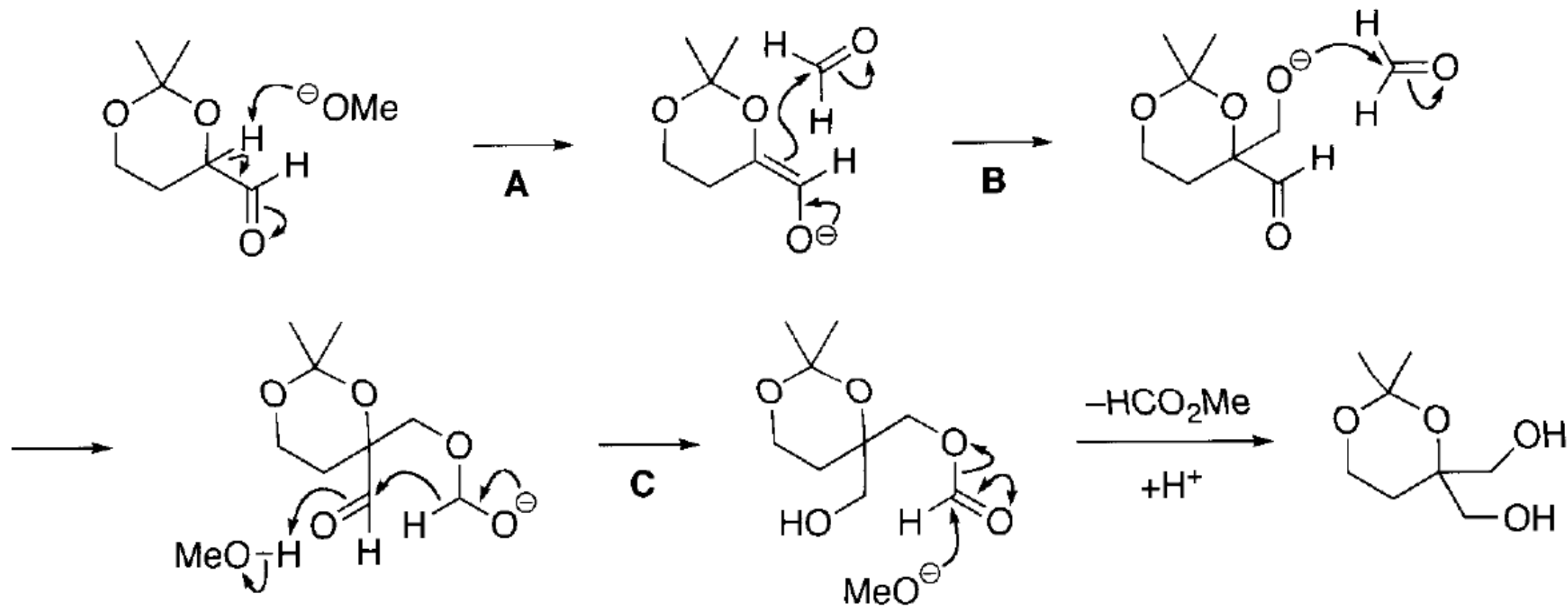
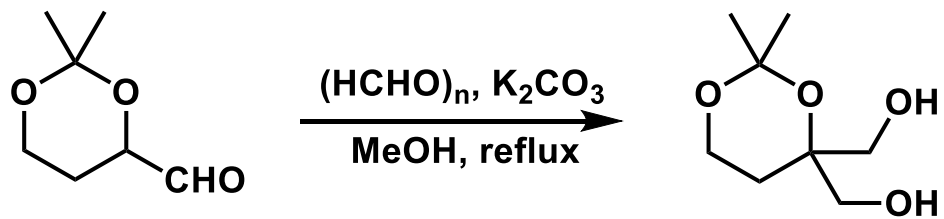
6.



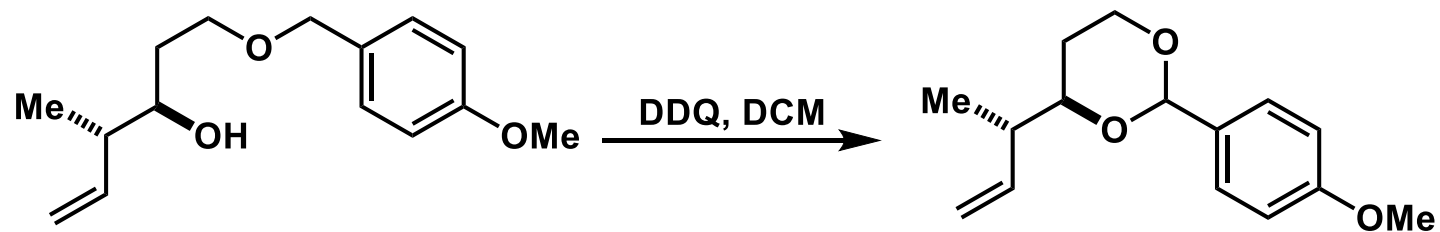
J. Org. Chem. **2017**, *82*, 5481.



7.



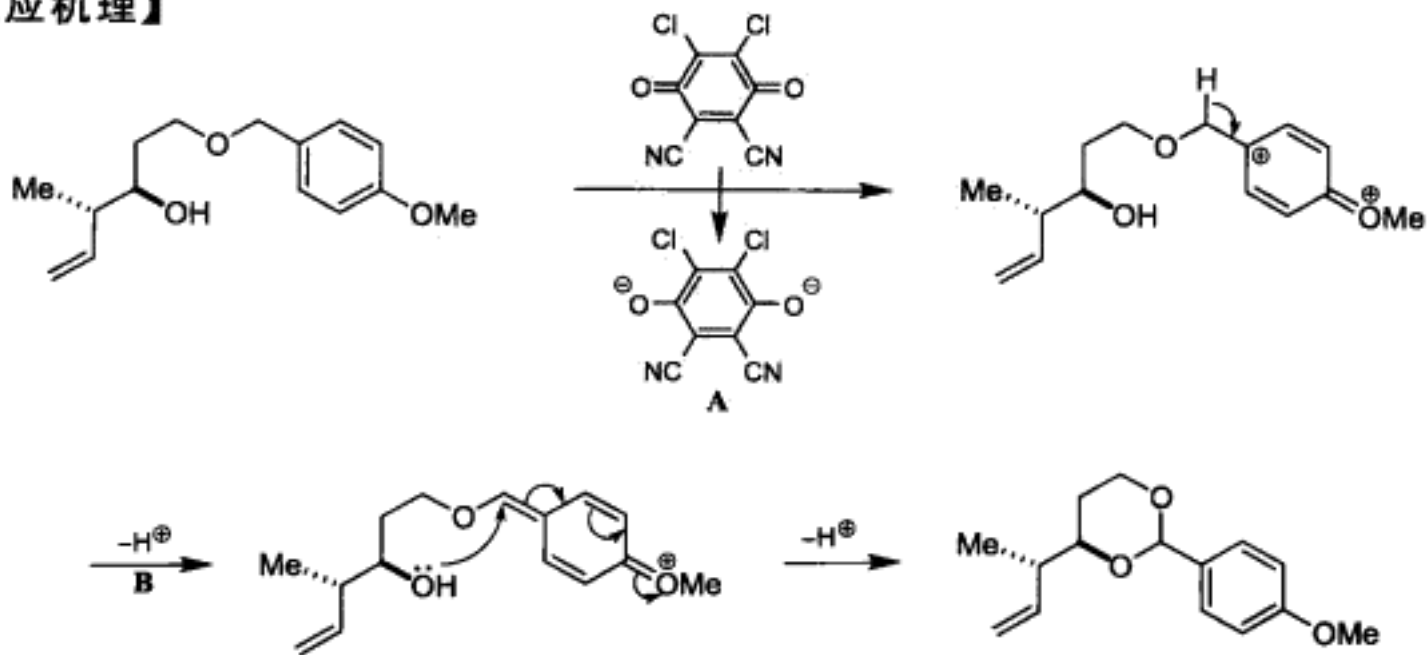
8.



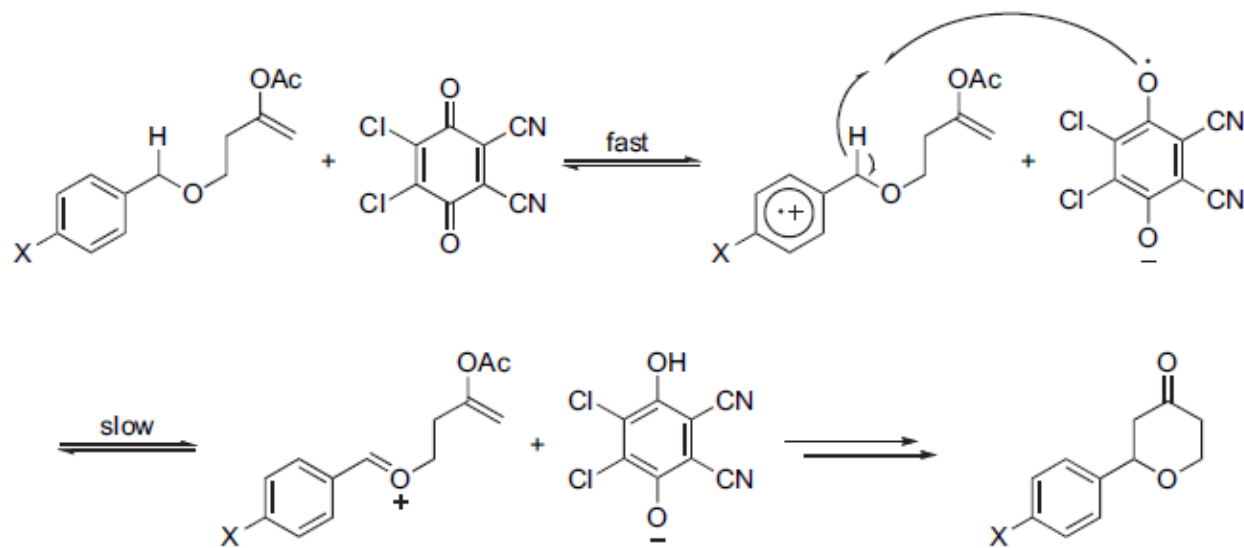
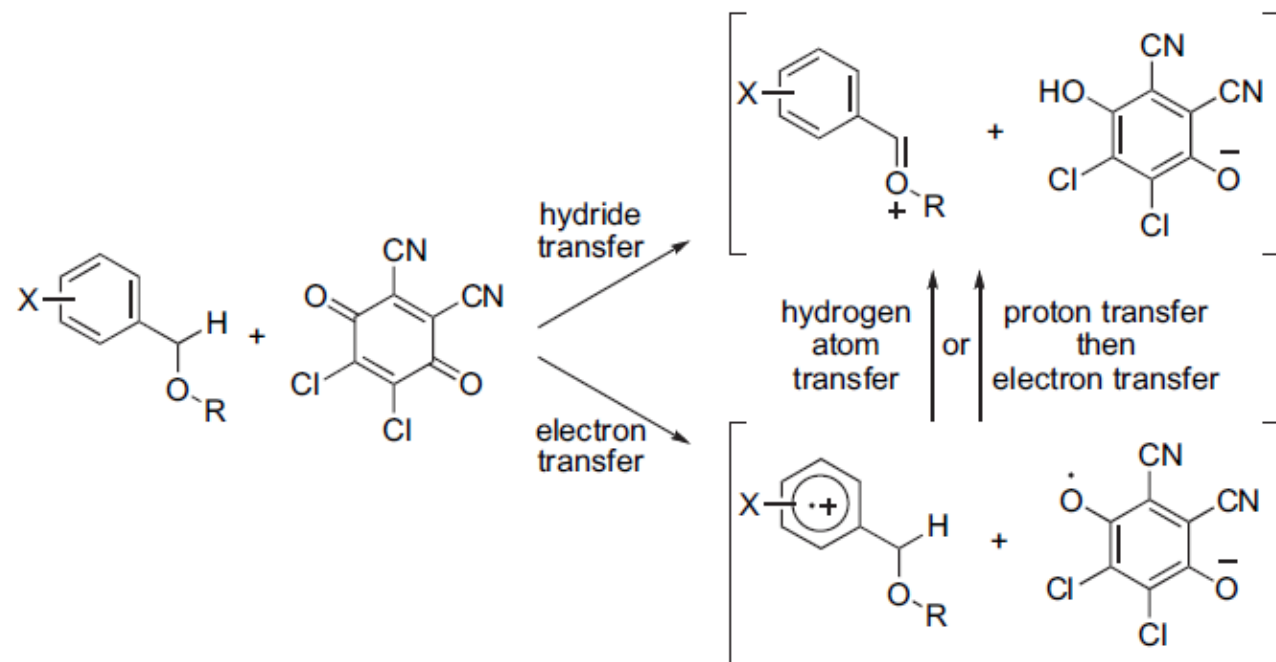
Org. Lett. 2003, 5, 4641

【反应说明】 DDQ 氧化，DDQ 是一种常备用来脱氧原子上的保护基 PMB 的试剂。该反应由于分子内含有一个羟基，所以分子内反应优先形成了缩醛。

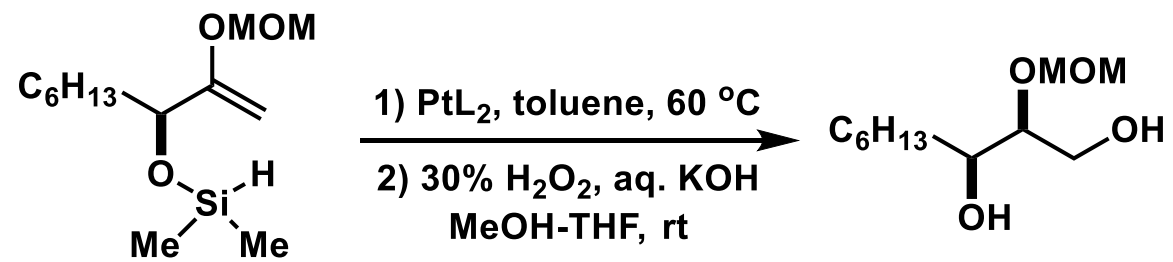
【反应机理】



A: 从反应底物向 DDQ 转移两个电子形成电荷转移混合物。**B:** 脱掉一个质子后形成醌的甲基化物，分子内加成生产物缩醛。

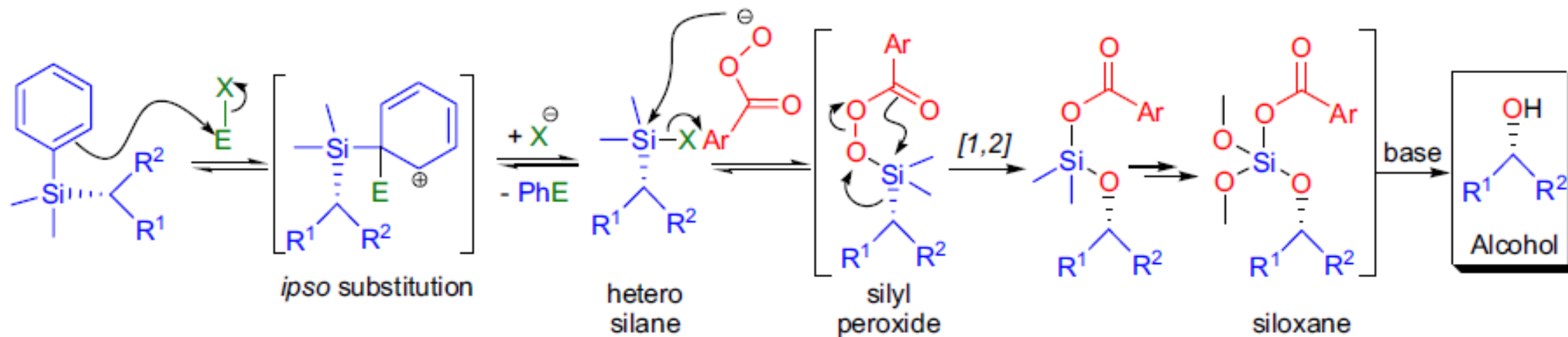
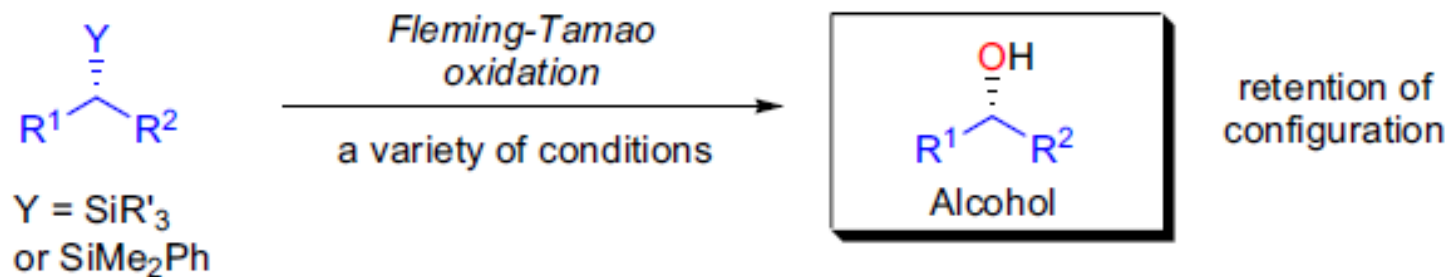
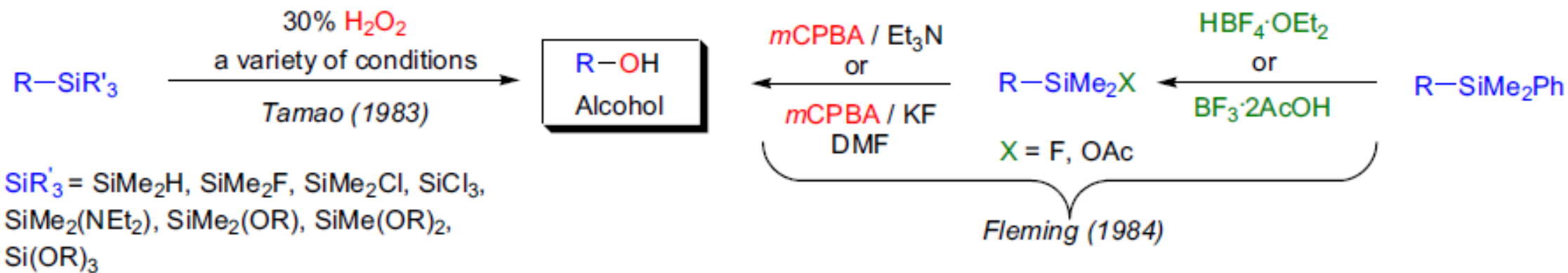


9.

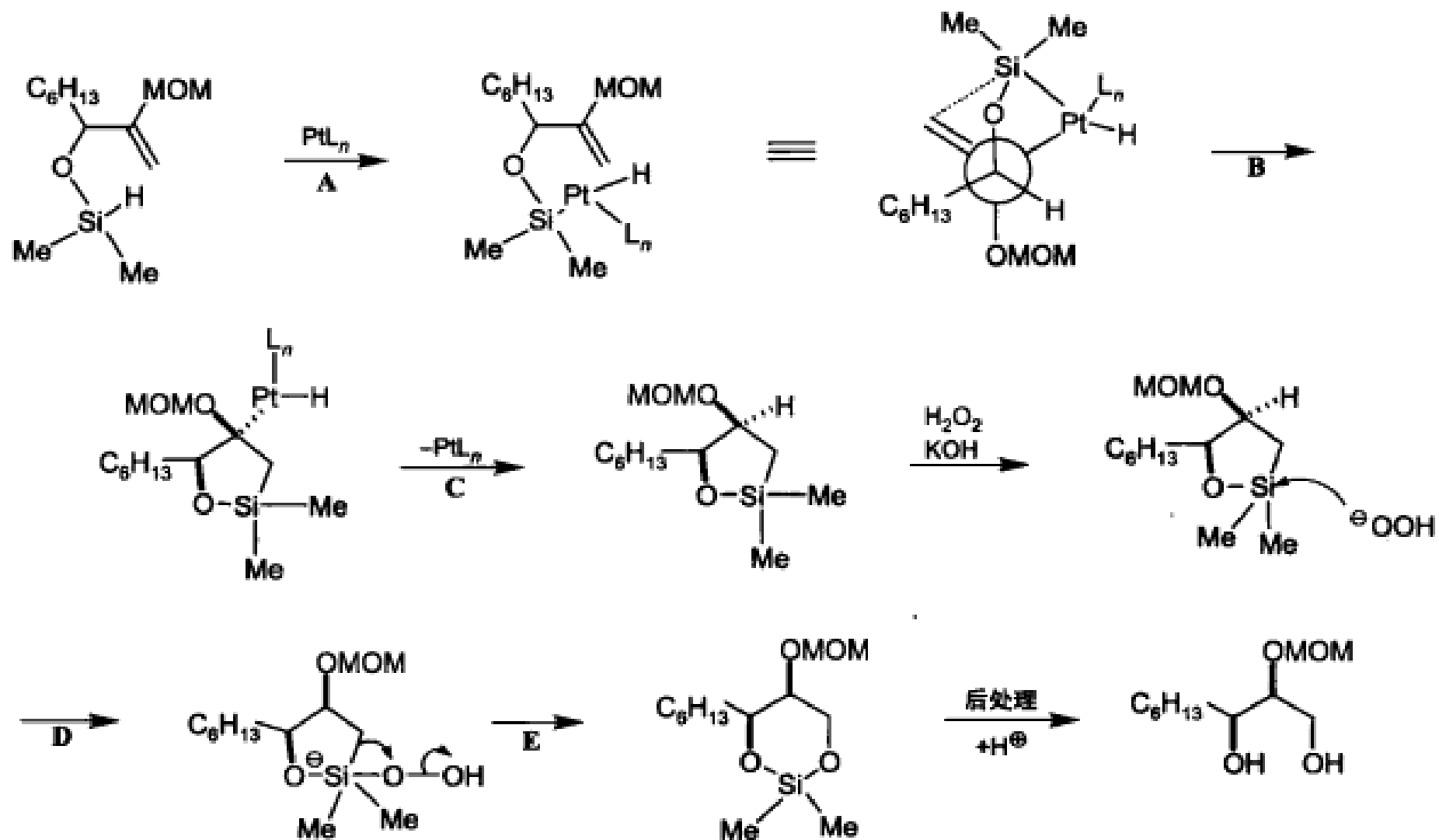


J. Am. Chem. Soc. **1988**, *110*, 3712.

Fleming-Tamao oxidation

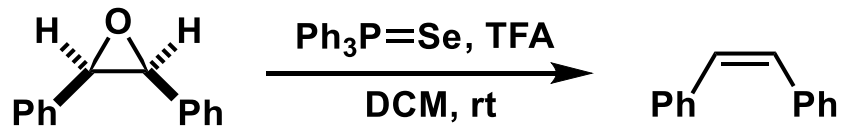


【反应机理】

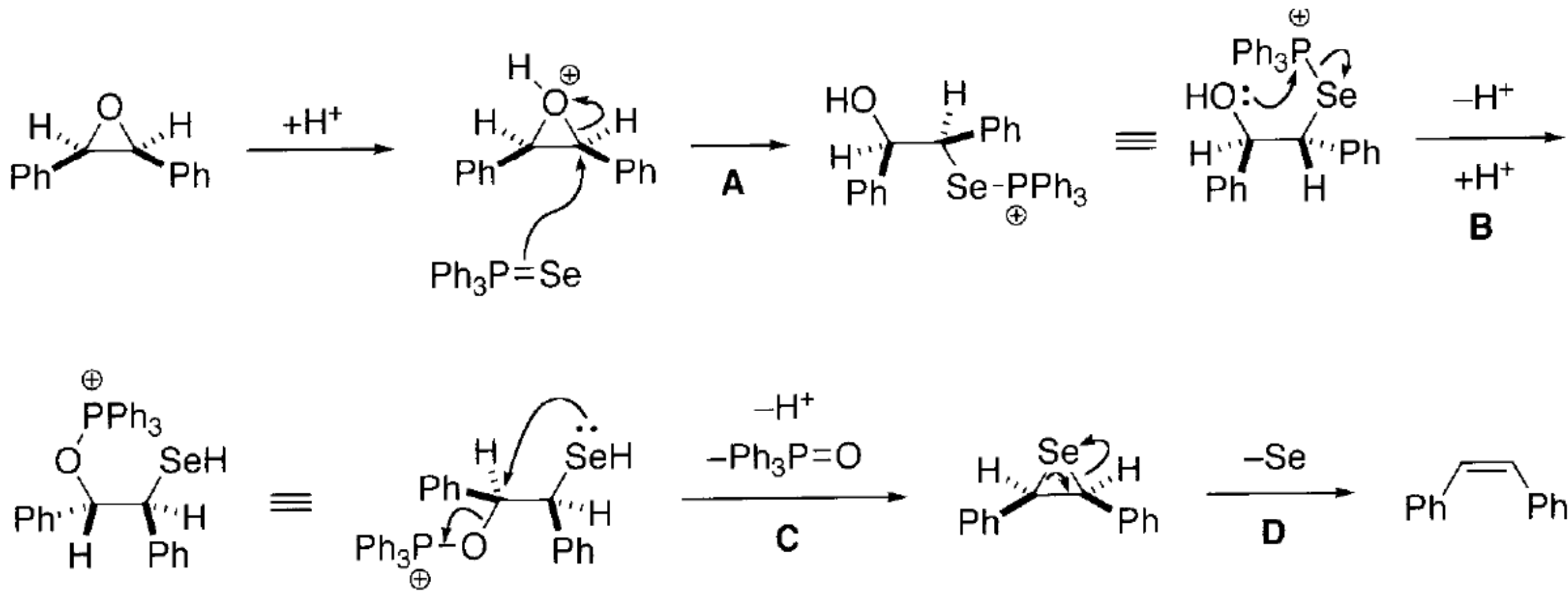


A: 催化剂铂在硅氢键上氧化加成。**B:** 分子内金属硅在烯烃上非对映选择性加成。
C: 还原消去。**D:** 形成硅负离子。**E:** 硅碳键迁移脱掉一个氢氧负离子形成硅缩酮，然后酸性后处理得到产物。

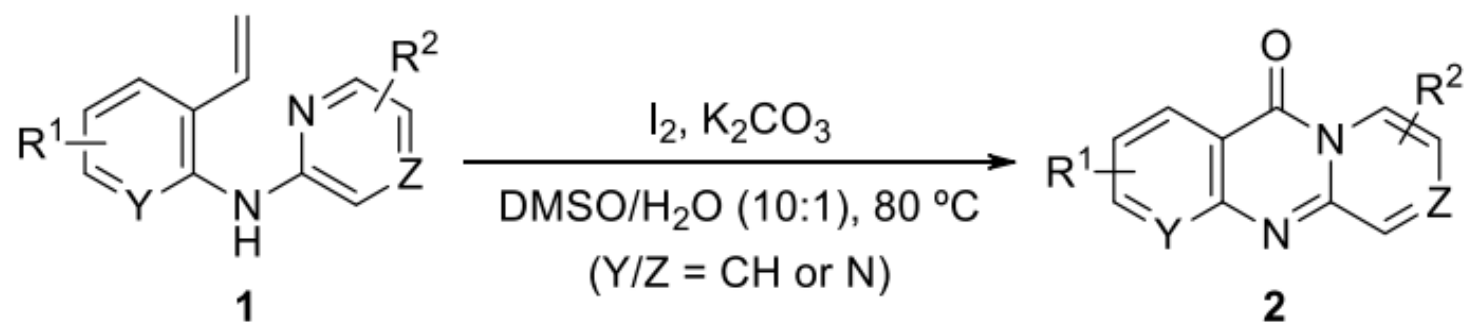
10.



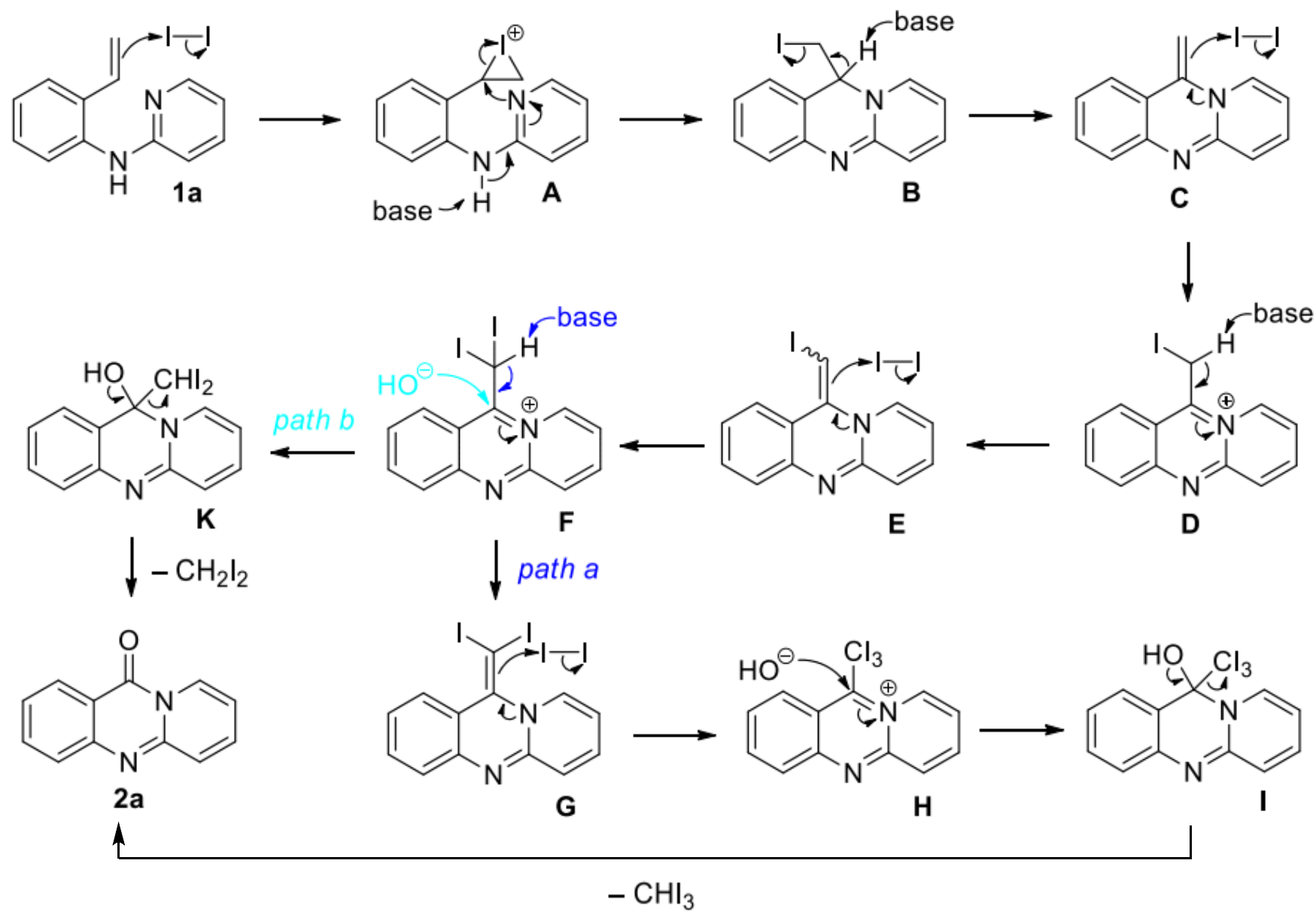
J. Chem. Soc., Chem. Comm. **1973**, 253.

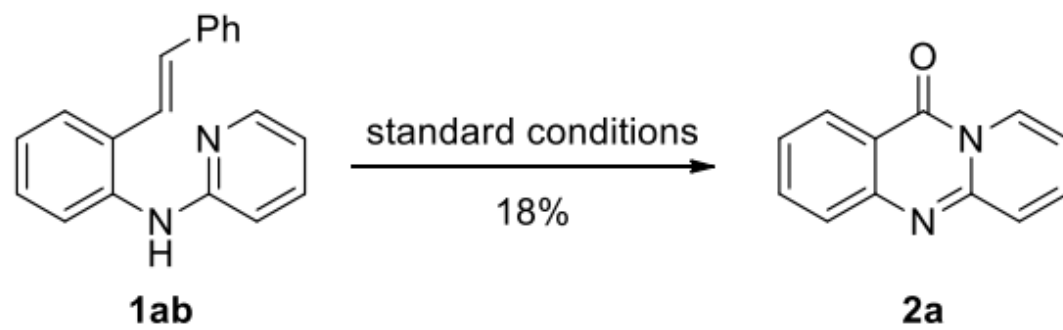
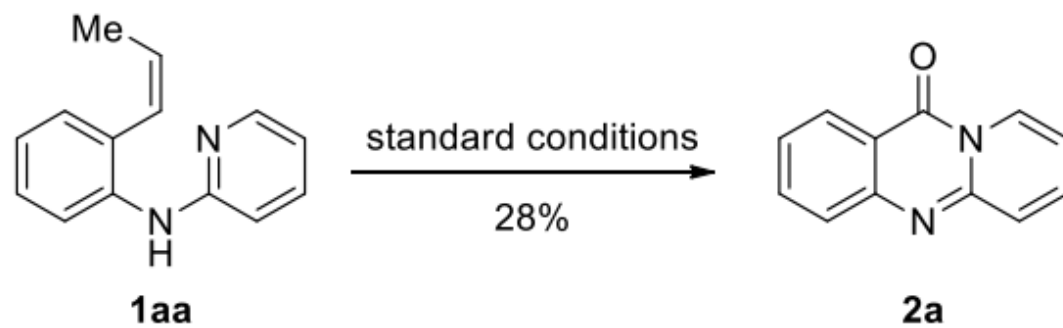
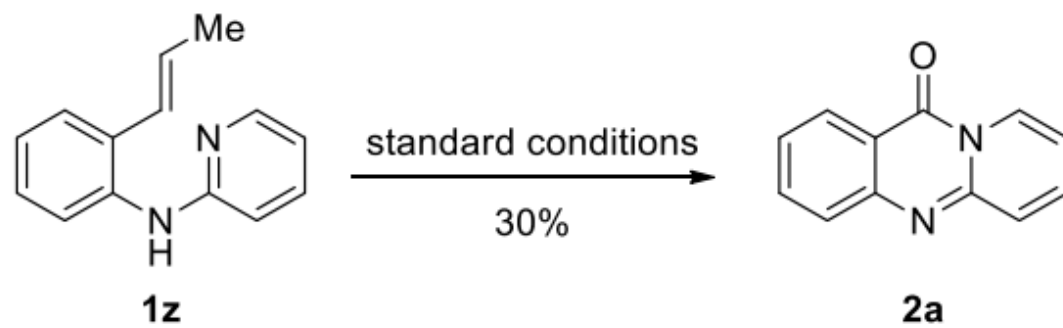


11.

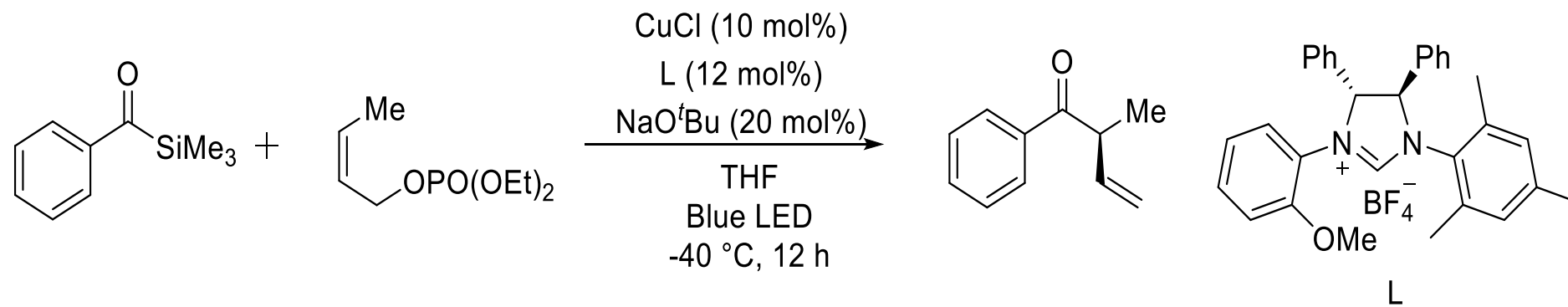


DOI:10.1021/acs.orglett.2c01183.





12.



DOI:10.1021/jacs.1c11526.

