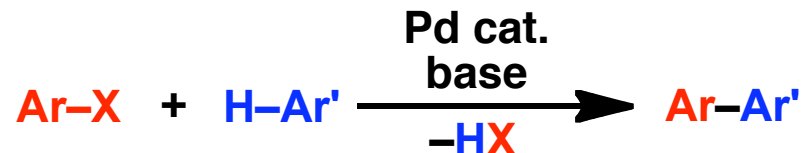
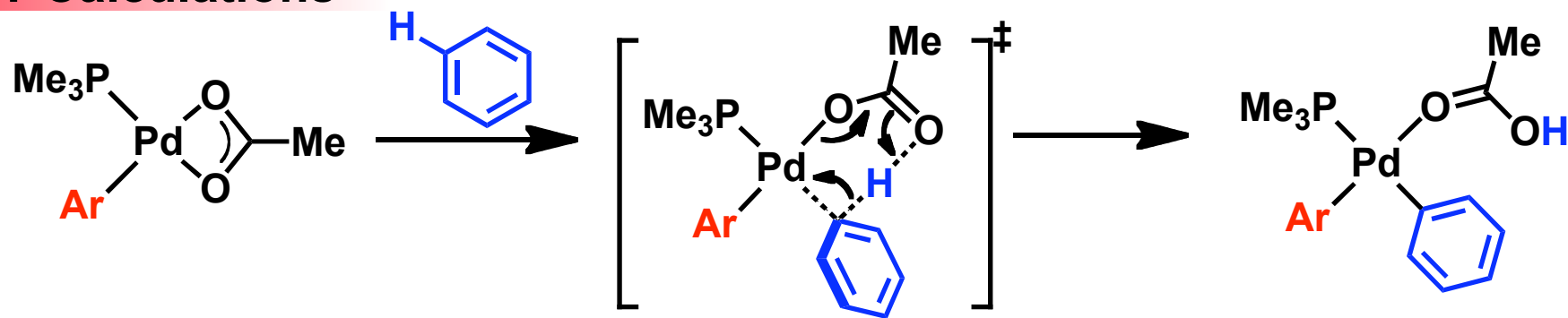


アリールパラジウム錯体によるチオフェン類の直接的アリール化反応

(京大化研) ○中村友紀・脇岡正幸・小澤文幸

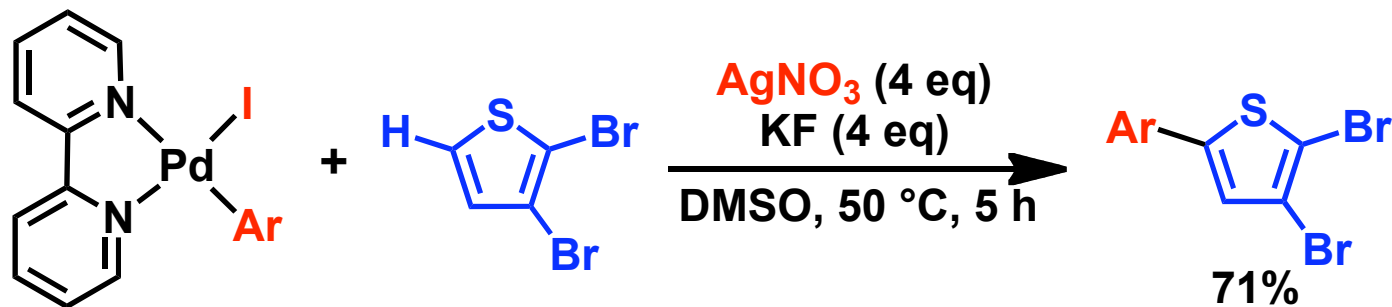


DFT Calculations



Fagnou, K. *et al. J. Am. Chem. Soc.* **2008**, *130*, 10848.

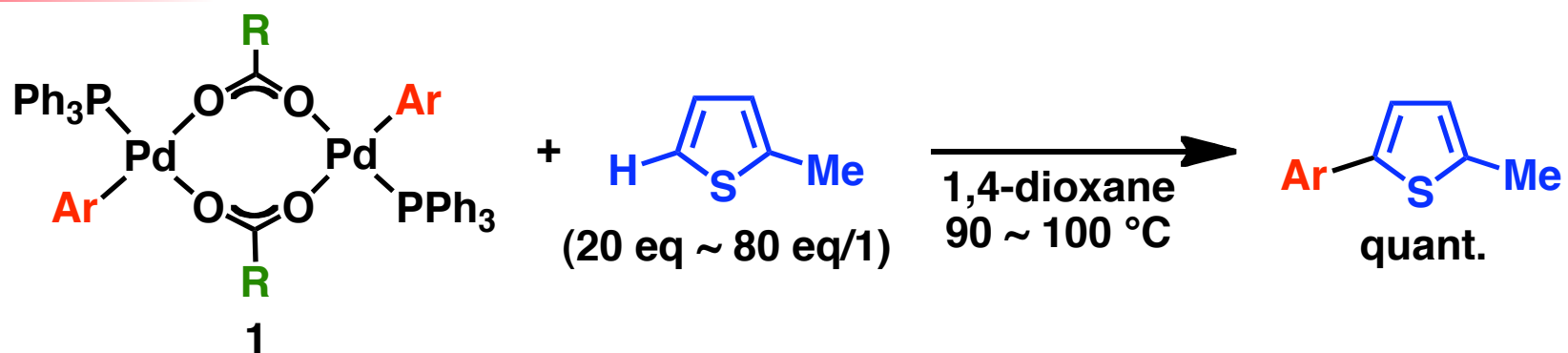
Stoichiometric Reactions



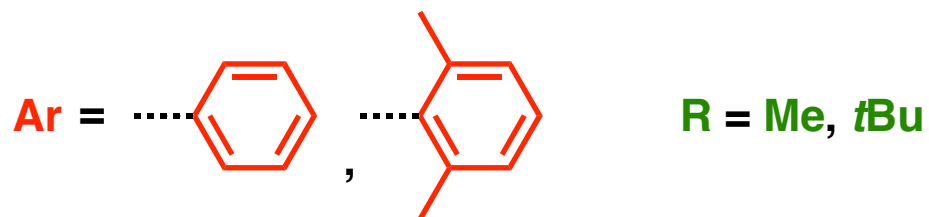
A few examples

Mori, A. *et al. Bull. Chem. Soc. Jpn.* **2009**, *82*, 555.

This Work



$$\text{rate} = k[1][\text{thiophene}]$$



solvent : 1,4-dioxane, THF, toluene

- ✓ Kinetics
- ✓ Reaction Pathway
- ✓ Substituent Effects
- ✓ Solvent Effects