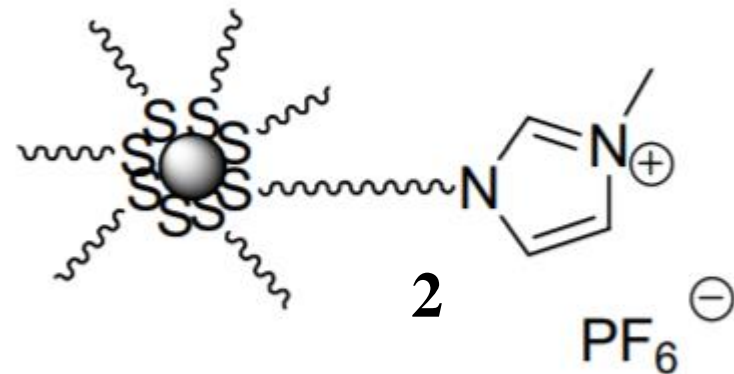
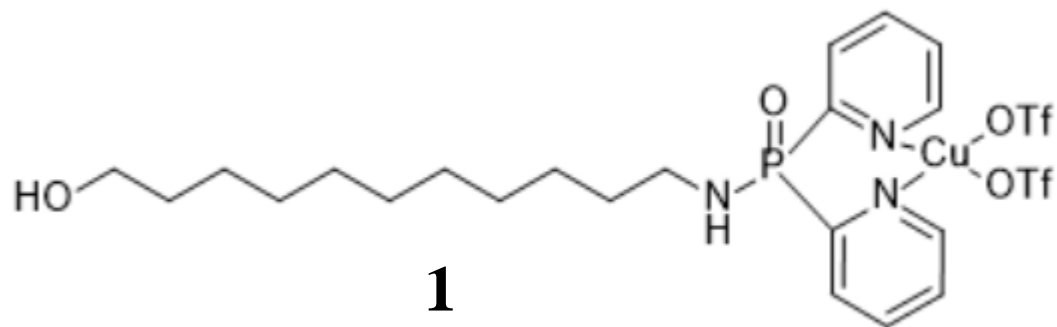
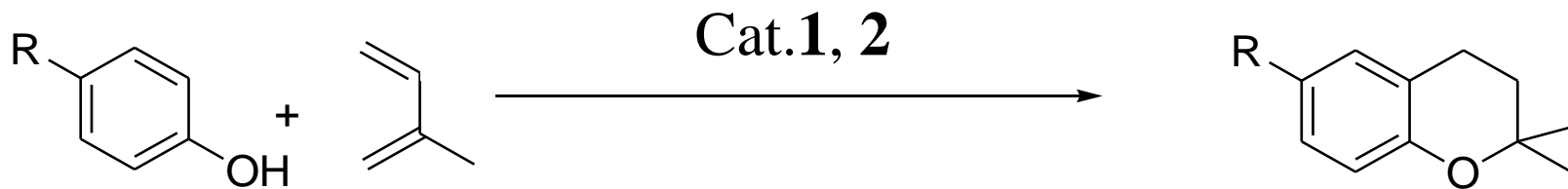


曹嘉榮(2008-2010)



Nanoparticle: Au

Phenols/Naphthols 與 1, 3-Dienes 環化反應 cat : 5 mol%



Condition:

cat **1** : 5 mol%, CH₂Cl₂, 50 °C, 18 h

cat **1** : 5 mol%, [Bmim]PF₆, Microwave, 600 W, 50 s

cat **2** : 5 mol%, CH₂Cl₂/CH₃CN(8 : 1), 50 °C, 18 h

cat **2** : 5 mol%, [Bmim]PF₆, Microwave, 600 W, 50 s