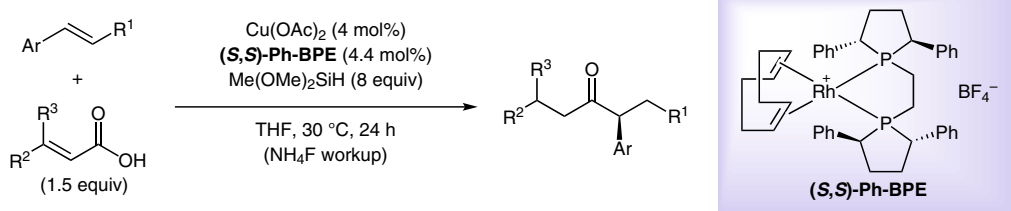
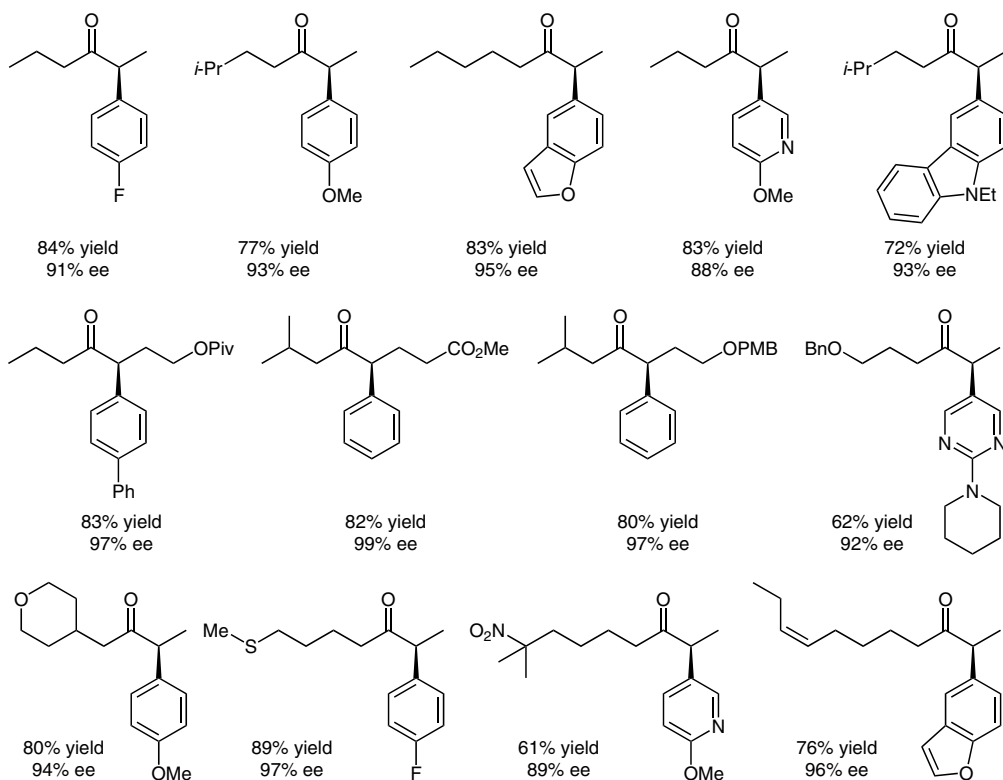


Asymmetric Copper Hydride Catalyzed Coupling Reaction to Access Chiral Ketones



Selected examples:



Significance: The preparation of chiral α -aryl dialkyl ketones is an important challenge for the synthesis community. The authors have developed a Cu-catalyzed enantioselective hydroacylation of α,β -unsaturated carboxylic acids with aryl alkenes.

Comment: This direct asymmetric copper hydride catalysis is highly effective in coupling α,β -unsaturated carboxylic acids to aryl alkenes to afford the corresponding chiral α -aryl dialkyl ketones in moderate yields and with high enantioselectivities.