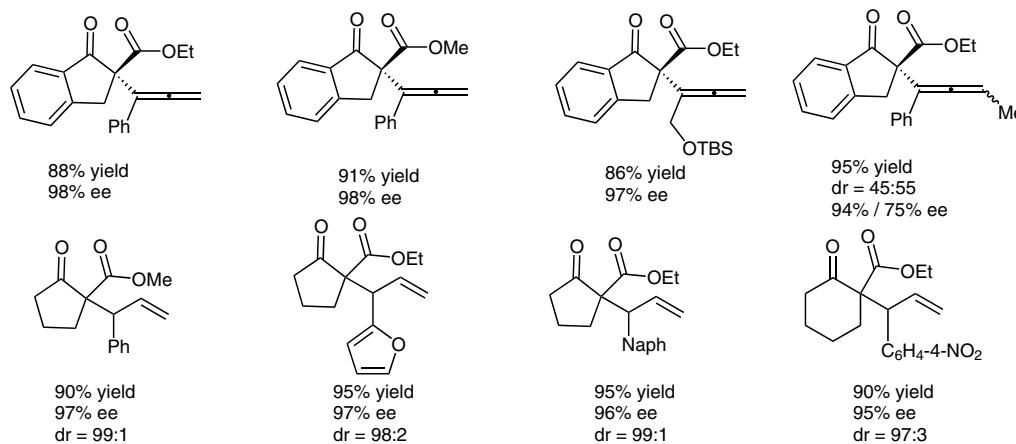
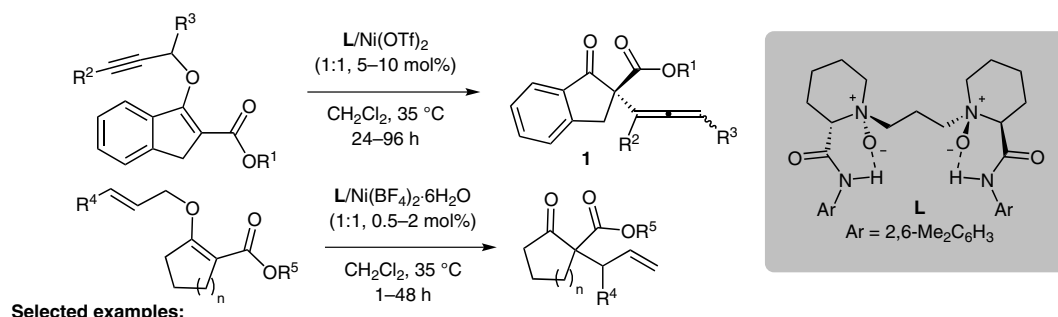
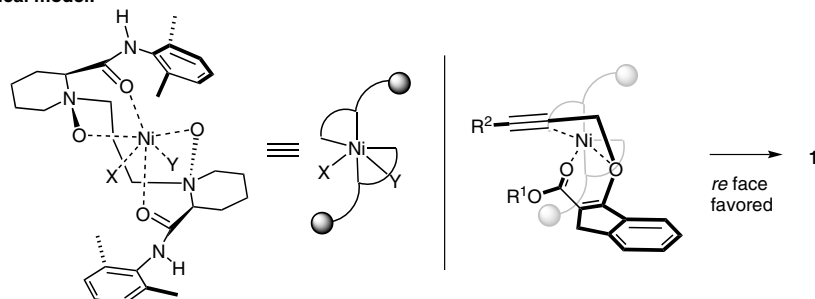


Y. LIU, H. HU, H. ZHENG, Y. XIA, X. LIU, L. LIN, X. FENG* (SICHUAN UNIVERSITY, CHENGDU AND LANZHOU UNIVERSITY, P. R. OF CHINA)
 Nickel(II)-Catalyzed Asymmetric Propargyl and Allyl Claisen Rearrangements to Allenyl- and Allyl-Substituted β -Ketoesters
Angew. Chem. Int. Ed. **2014**, *53*, 11579–11582.

Nickel-Catalyzed Asymmetric Claisen Rearrangement



Stereochemical model:



Significance: The authors present an asymmetric propargyl and allyl Claisen rearrangement using a readily available chiral N,N' -dioxide–nickel(II) complex. Product allyl and allenyl compounds were obtained with good yield and excellent enantio- and diastereoselectivities.

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Comment: This rearrangement works with relatively inexpensive metal (nickel) under mild reaction conditions. The produced β -keto esters with all-carbon quaternary stereogenic centers with allenyl and allyl substituents are highly useful chiral building blocks.