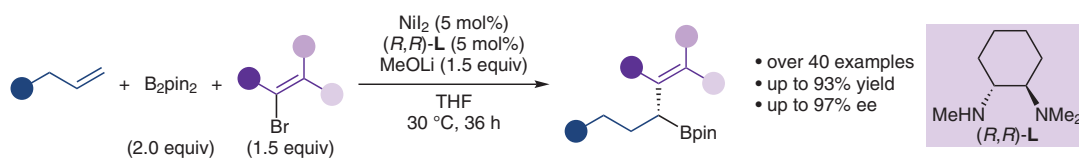
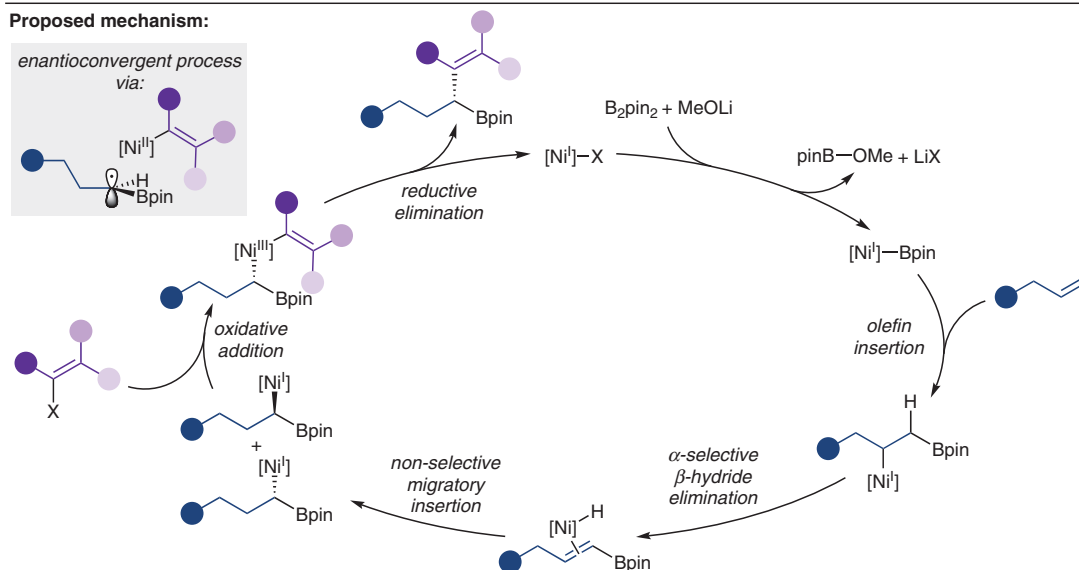


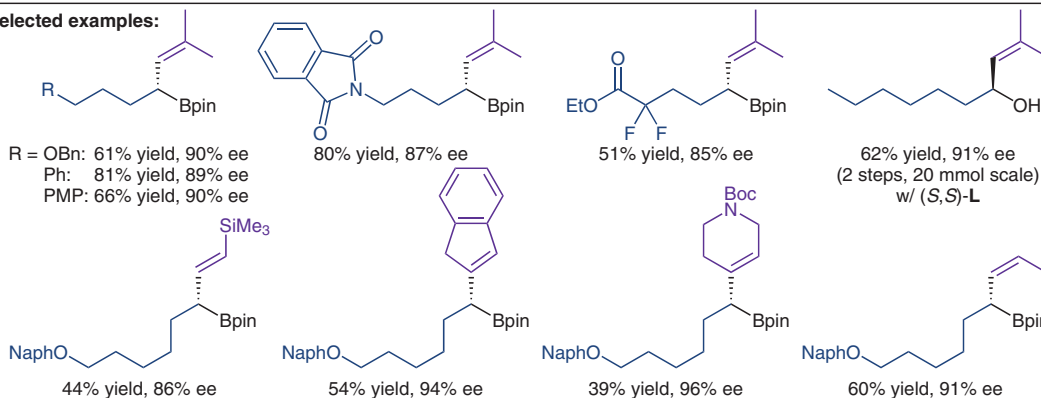
1,1-Difunctionalization of Terminal Alkenes to Chiral Allylboronates under Nickel Catalysis



Proposed mechanism:



Selected examples:



Significance: A method for the catalytic difunctionalization of terminal alkenes to form chiral allylboronates is presented. This enantiocovergent process relies on an α -selective β -hydride elimination as the key step.

Comment: The products were formed in moderate to high yields and with high enantioselectivities. The utility of this method was further demonstrated by the rapid synthesis of key intermediates of complex drug molecules.