Enantioselective Functionalization of Internal Alkenes

Significance: The authors developed an enantioselective introduction of electrophilic oxidants into internal alkenes by using a hetero-ene reaction. A Lewis-acid-assisted Bronsted-acid system enables this transformation with high selectivity.

Comment: The utility of this transformation was demonstrated by the derivatization of the products to give various valuable chiral compounds. A reaction mechanism is proposed on the basis of mechanistic experiments.