Ruthenium-Catalyzed Z-Selective Cross-Metathesis of Allylic Alcohols

**Significance:** The authors describe a ruthenium complex catalyzed Z-selective cross-metathesis to afford \((Z)\)-allylic alcohols. The reaction conditions are very mild and a wide range of functional groups (for example, aldehydes, carboxylic acids, phenols, and enol ethers) is tolerated.

**Comment:** Using a ruthenium–disulfide complex, highly valuable \((Z)\)-alkenes are obtained from easily available alkenes and \((Z)\)-allylic alcohols. Theoretical studies provide a better understanding of this catalyst design.