Chromium-Catalyzed Preparation of Skipped Dienes from Allenes

Significance: Zhao and Ge report the preparation of borylated skipped (E,Z)-1,4-dienes via a chromium(II)-catalyzed selective dimerization/hydroboration strategy from allenes in excellent regio-, chemo-, and stereoselectivity.

Comment: The authors performed mechanistic investigations allowing them to propose a catalytic cycle involving a Cr(I)-hydride species formed from CrCl₂, NaBHEt₃, and the ligand.