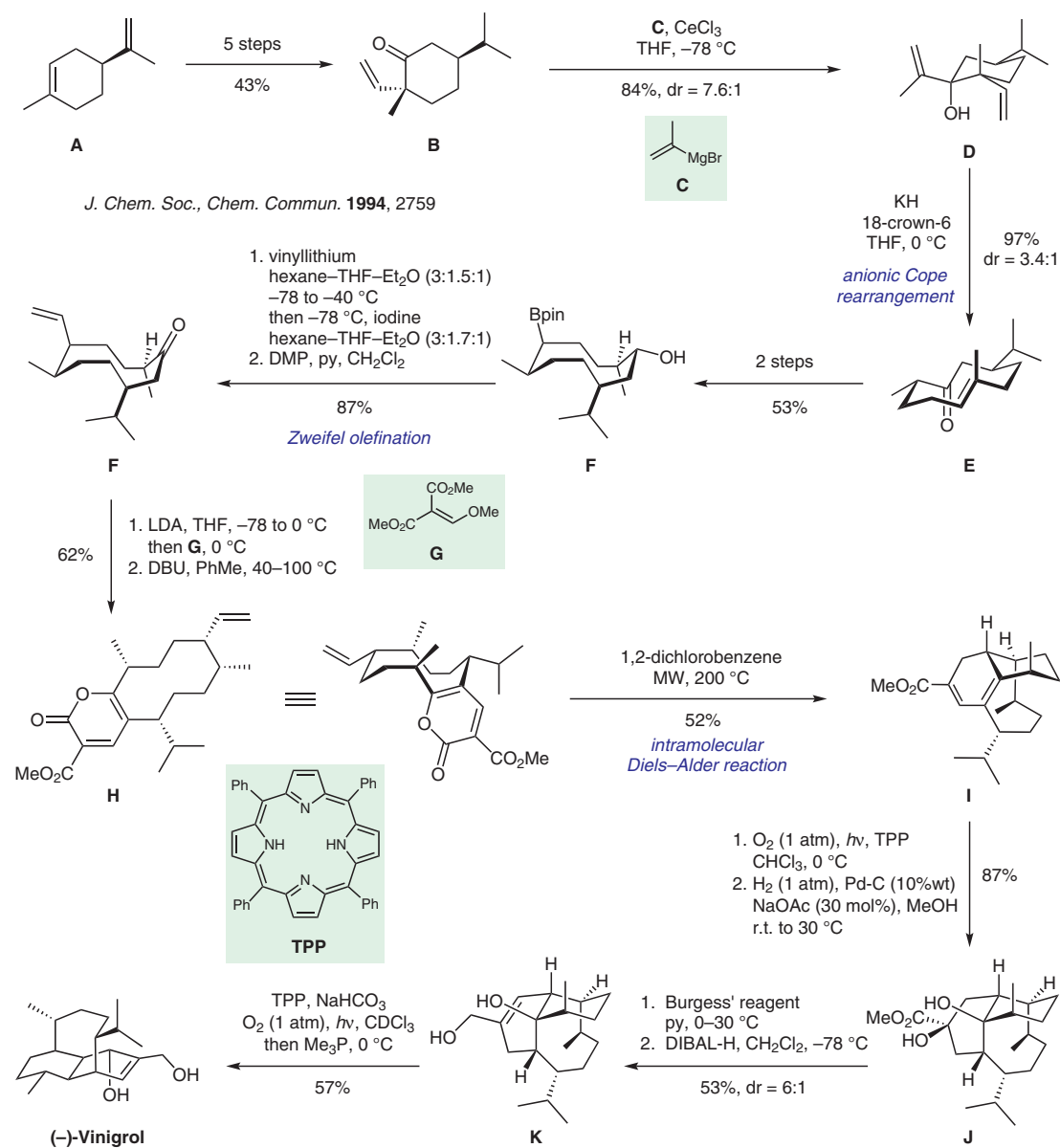


Total Synthesis of (-)-Vinigrol



Significance: The authors report the total synthesis of (-)-vinigrol, which has been an attractive target since its isolation in 1987. Key features of the synthesis include a transannular Diels-Alder reaction and an anionic Cope rearrangement.

Comment: The synthesis starts from (-)-limonene and gives ketone **B** following a known procedure. Anionic Cope rearrangement and further elaboration yield macrocycle **H**. Intramolecular Diels-Alder reaction gives access to the skeleton of vinigrol, which itself is obtained after five more steps.