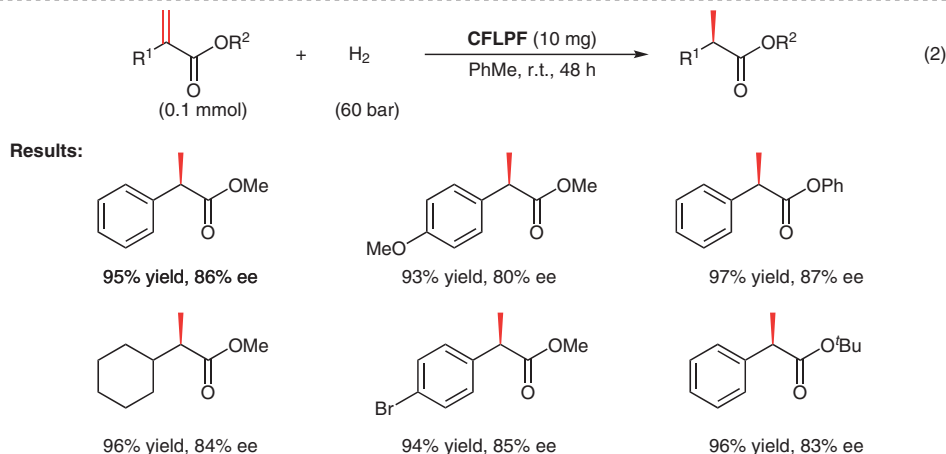
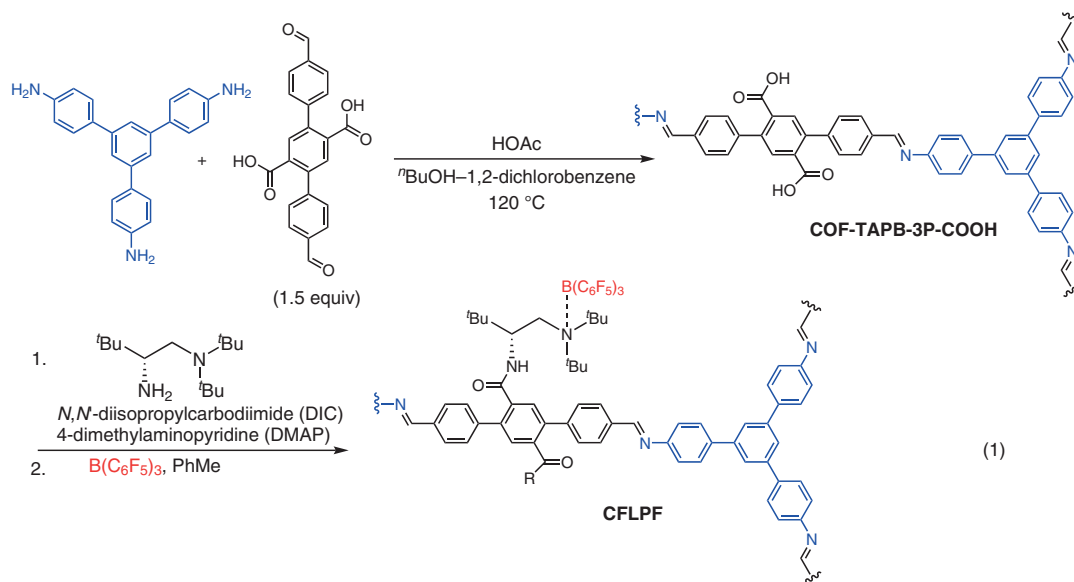


# Asymmetric Hydrogenation of Acrylates by COF with Chiral Frustrated Lewis Pairs



**Significance:** A covalent organic framework tethering a chiral frustrated Lewis pair (CFLPF) was prepared according to eq. 1. CFLPF promoted the asymmetric hydrogenation of acrylates with 60 bar hydrogen to give the corresponding  $\alpha$ -chiral propionates in up to 97% yield and 87% ee (eq. 2).

**Comment:** In the hydrogenation reaction, the catalyst was recovered and reused four times without significant loss of its catalytic activity. The robustness of the catalyst was supported by the PXRD, EDS, XPS, BET, and NMR analyses of the reused catalyst.