Asymmetric Conjugate Addition of ArB(OH)$_2$ to Enones with Chiral Rh-POF

**Significance:** A rhodium complex supported on a chiral porous organic framework (chiral POF-Rh) was prepared by the Suzuki–Miyaura coupling of chiral bistri fluoride 1 and 2, followed by the complexation with [Rh(C$_2$H$_4$)$_2$Cl]$_2$ (eq 1). Chiral POF-Rh catalyzed the asymmetric conjugate addition of arylboronic acids to enones to give the corresponding 1,4-addition products in up to 93% yield with up to 93% ee (15 examples, eq. 2).

**Comment:** Chiral POF and chiral POF-Rh were characterized by NMR, BET, TEM, SEM, TGA, PXRD, and ICP analyses. In the reaction of phenylboronic acid with 2-cyclohexenone, chiral POF was recovered by centrifugation and reused by treatment with [Rh(C$_2$H$_4$)$_2$Cl]$_2$ without significant loss of activity and enantioselectivity (5$^{th}$ recycling run: 87% yield, 84% ee).