The Mizoroki–Heck Reaction Using a Palladium–NHC Complex Supported on MNP

**Significance:** A palladium–NHC complex was immobilized on magnetic nanoparticles (Pd–NHC@MNP) according to the sequences shown above. Pd–NHC@MNP catalyzed the Mizoroki–Heck reaction of terminal alkenes with aryl halides to afford the corresponding internal alkenes in up to 96% yield (eq. 2).

**Comment:** The characterization of Pd–NHC@MNP was performed by TEM, EDX, IR, TGA, DSC, \(^1\)H NMR spectroscopy, and ETAAS analyses. In the Mizoroki–Heck reaction of butyl acrylate with iodobenzene, the catalyst was recovered magnetically and reused four times without loss of its catalytic activity (1\(^{st}\) run: 85% yield, 3\(^{rd}\) run: 87% yield, 5\(^{th}\) run: 85% yield).