Flow-Generated Diazo Compounds and Their Use in Cross-Coupling

**Significance:** Unstable diazo compounds were generated as reactive intermediates in a flow system using a MnO2-packed cartridge with Hünig's base. The resulting diazo compounds reacted with carboxylic acids and arylboronic acids under flow conditions to give the corresponding esters 2a–f in 72–100% yield and the C–C coupling products 3a–f in 67–95% yield, respectively.

**Comment:** The generated diazo compounds were detected and titrated by in-line IR spectroscopy. The MnO2-packed cartridge was regenerated by flowing tert-butyl hydroperoxide in dichloromethane and reused twice with a slight loss of activity.