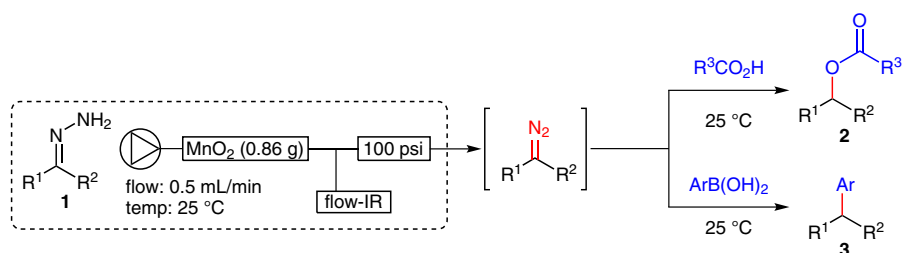
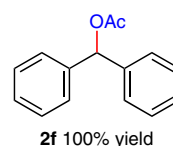
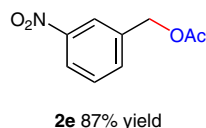
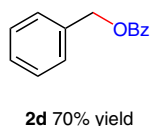
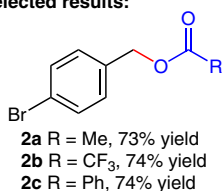


# Flow-Generated Diazo Compounds and Their Use in Cross-Coupling



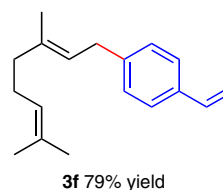
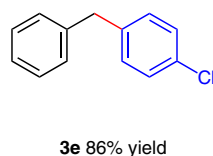
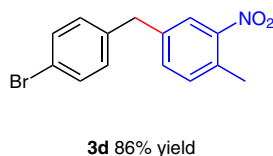
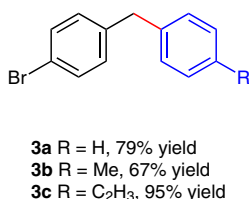
## Esterification:

### Selected results:



## Coupling reaction:

### Selected results:



**Significance:** Unstable diazo compounds were generated as reactive intermediates in a flow system using a MnO<sub>2</sub>-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 MnO<sub>2</sub>-packed cartridge was regenerated by flowing *tert*-butyl hydroperoxide in dichloromethane and reused twice with a slight loss of activity.

Synfact  
of the month