Publication 45: Substituted Allenes Prepared by Flow-Generated Diazo Compounds

A versatile and mild, room temperature copper-catalyzed coupling reaction between unstabilized diazo compounds and terminal alkynes is reported.

The method provides di- and trisubstituted allenes with high functional-group tolerance.The diazo compounds are generated from hydrazines on demand under flow-through conditions.

J.-S. Poh, D. N. Tran, C. Battilocchio, J. M. Hawkins, S. V. Ley, Angew. Chem. Int. Ed., 2015, 54, DOI: 10.1002/anie.201501538