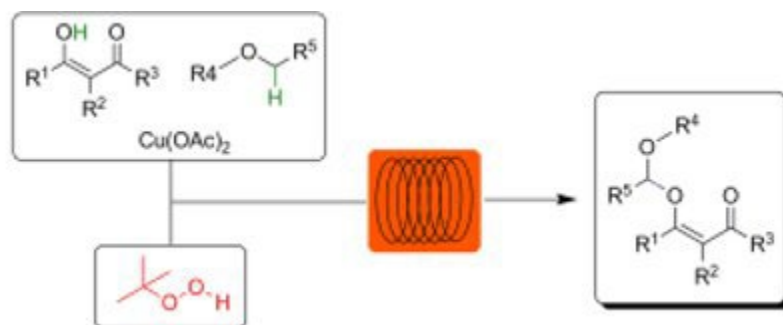


## Publication 51: Copper-Catalyzed Formation of C-O Bonds by Direct alpha-C-H Bond Activation of Ethers



Peroxides and ethers in flow: 2-Carbonyl-substituted phenols and β-ketoesters react safely with ethers in a microreactor environment using a copper catalyst and an organic peroxide (TBHP).

Closely comparable results were obtained utilising either a continuous flow or microwave reactor.

This protocol results in unsymmetrical acetal scaffolds not easily available otherwise.

[G. S. Kumar, B. Pieber, .K. R. Reddy, .C. O. Kappe, Chem. Eur. J., 2012, 18, 6124-6128.](#)