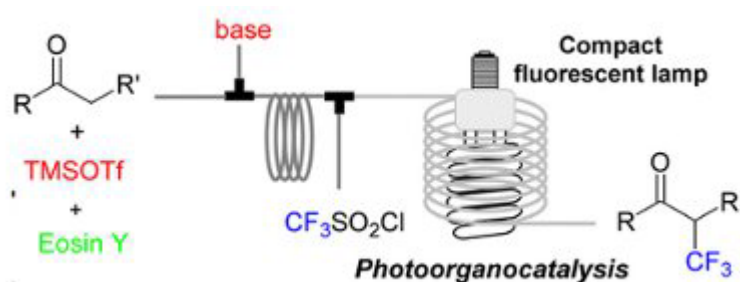


## Publication 38: Continuous Flow alpha-Trifluoromethylation of Ketones under Metal-Free Visible Light Photoredox Catalysis



A continuous-flow, two-step procedure for the preparation of  $\alpha$ - $CF_3$ -substituted carbonyl compounds has been developed using the Uniqsis Binary Pump Module in combination with a lab built photoreactor.

The carbonyl substrates were converted in situ into the corresponding silyl enol ethers, mixed with the  $CF_3$  radical source, and then irradiated with visible light using a flow reactor based on transparent tubing and a household compact fluorescent lamp.

The continuous protocol uses Eosin Y as an inexpensive photoredox catalyst and requires only 20 min to complete the two reaction steps.

[D. Cantillo, O. de Frutos, J. A. Rincón, C. Mateos, C. O. Kappe, \*Org. Lett.\*, 2014, 16 \(3\), pp 896–899](#)