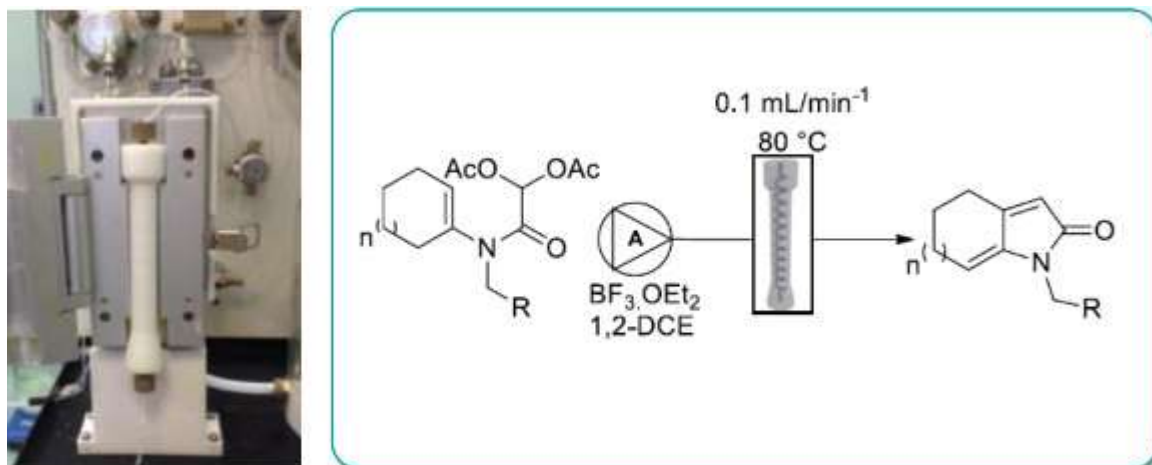


Publication 59: 3D Printed Continuous-Flow Column Reactors for Synthesis



Custom designed polypropylene reactor columns compatible with the Uniqsis FlowSyn were manufactured using low-cost 3D printing techniques.

The reactors could be used several times to perform both SNAr reactions at high temperature in DMF and intramolecular acylal (IAC) cyclisation reactions in the presence of $\text{BF}_3\cdot\text{OEt}_2$ in dichloroethane in good yields.

This work demonstrates the potential to develop and utilise customised low-cost 3D printed reactors in synthetic chemistry.

[Z. X. Rao, B. Patel, A. Monaco, Z. J. Cao, M. Barniol-Xicota, E. Pichon, M. Ladlow, S. Hilton, Eur. J. Org. Chem., 2017, 44, 6499](#)