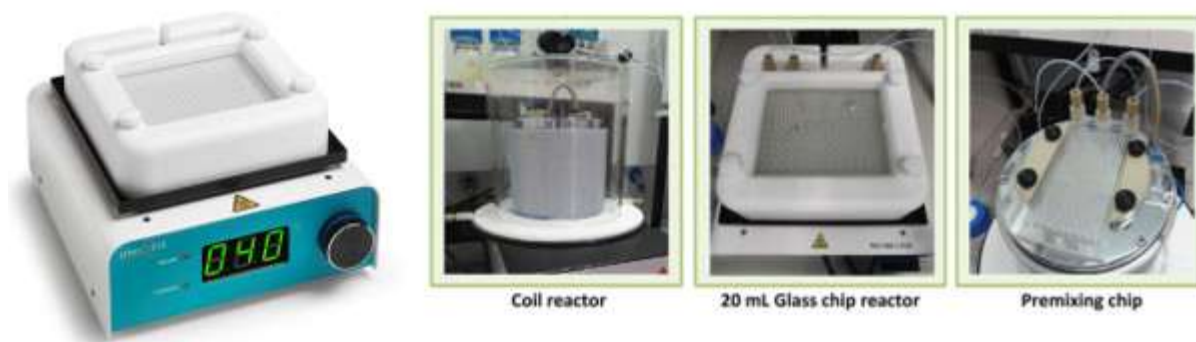


Publication 67: Fast Screening and Optimisation of a RAFT Polymerisation in Micro-Scale Reactors



Two glass chip reactors and a coil reactor are used in different combinations to investigate the RAFT polymerisation of MMA in a micro-scale continuous flow reactor system.

Optimisation was facilitated by the use of in-line NMR analysis in combination with kinetic and multiphysical modeling to find the optimal process parameters (temperature and residence time) as well as the best composition of the reaction mixture in order to optimize the conversion and molecular characteristics of the synthesized polymer.

[F. Kandelhard, K. Schuldt, J. Schymura, P. Georgopoulos, * and V. Abetz, Macromol. React. Eng., DOI: 10.1002/mren.202000058](#)