Using Flow Techniques to Assemble ‘Challenging’ Molecules

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The greater acceptance and wider adoption of flow chemistry including other continuous processing techniques by both industry and academia is having a profound effect on the way we conduct chemistry. Initially flow chemistry was mainly applied in order to address challenges in synthesis regarding safe scaling and permitting access to broader processing regimes, such as higher temperature and pressures. However, with increasing access to direct in-line monitoring/optimisation and more efficient downstream work-up and purification the ability to perform more complex multi-step synthesis in telescoped format has become increasingly popular.1 In this presentation we will describe some of the reactions classes and new chemical processes which we have developed aimed at delivering specific target molecules at moderate scales in an academic laboratory environment.2-4

References