Photograph



Title of the Abstract: Multivariate Analysis of a Nucleophilic Aromatic Substitution by Real-Time On-Line Flow Reaction Monitoring Using Miniaturised Mass Spectrometry

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Abstract:

The use of automated flow systems combined with on-line MS analysis enables rapid screening and efficient optimisation for process development and is fully scalable from laboratory, pilot plant to manufacturing plant. This produces a massive saving in the time and materials required if compared to common approaches. To demonstrate this, we have investigated the optimization of the nucleophilic aromatic substitution of 2,4-difluoro-nitrobenzene with morpholine over a wide variety of stochiometric ratios, residence times and temperatures to demonstrate all the benefits of using on-line flow reaction monitoring.

Biography:

Dr Christopher Harris is an Application Specialist at Microsaic Systems plc, developers of point-of-need mass spectrometers that serve a range of applications. Key application areas include reaction monitoring and mass directed purification.

Chris received his PhD in Chemistry from Nottingham University studying the mass spectrometry and electrostatics of molecular clusters

Research Interests:

Mass spectrometry

References:

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Suggestions of colleagues/Professors/scholars to send invitation (if any)

Suggestions of Sessions in the conference (if any)