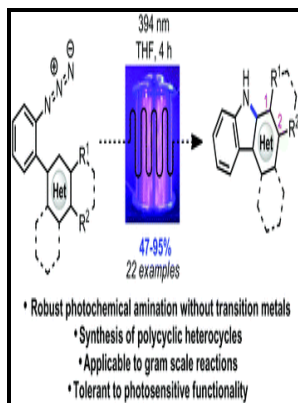


Flash chemistry - fast organic synthesis in microsystems

Wiley - Flash chemistry using electrochemical method and microsystems



Description: -

- Art and science -- Societies, etc.

Society for the Encouragement of Arts and Sciences in Canada.

Organic reaction mechanisms

Microreactors

Intermediates (Chemistry)

Organic compounds -- SynthesisFlash chemistry - fast organic synthesis in microsystems

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Notes: Includes bibliographical references and index.

This edition was published in 2008



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Tags: #Flash #Chemistry

Flash Chemistry

Microfluidic Devices and Microflow Systems. All those benefits are even more noteworthy and outstanding than what they might seem, because they widely fulfil most of the green chemistry principles. The results described above nicely show the potential, as green technology, of flow microreactor systems for synthetic processes involving highly unstable intermediates.

Flash Chemistry: Fast Organic Synthesis in Microsystems

Safety benefits, because of the high efficiency in heat exchange, and avoided accumulation of unstable intermediates. Thus the challenge for microfluidics lies in attaining the recognition from the research and industrial communities that microfluidic techniques are applicable and superior in a greater range of areas than those in which they are currently being used. Continuous-flow techniques offer increased safety, scalability, reproducibility, automation, reduced waste and costs, and accessibility to a wide range of new chemical possibilities, seldom not accessible through classic batch chemistry.

Flash Chemistry

The stereochemistry of the adduct can be simply switched to the opposite enantiomer, by using the enantiomeric supported catalyst PS—R—pybox—calcium chloride.

Flash Chemistry: Fast Organic Synthesis in Microsystems

It brings together the generation of highly reactive species and their reactions in Microsystems to enable highly controlled organic syntheses on a preparative scale in t. Another useful aspect of the flash chemistry relies on the possibility to generate highly reactive intermediates, such as halomethylithium carbenoids, that need to be used under internal-quenching technique in batch mode.

Flash Chemistry : Fast Organic Synthesis in Microsystems by Jun

The DEPBT was crucial to avoid an undesired racemization reaction.

Flash Chemistry : Fast Organic Synthesis in Microsystems by Jun

Handbook of Micro Reactors; Wiley-VCH: Weinheim, 2009. Without claiming to be exhaustive, in this review we report recently published representative synthetic applications that demonstrate the growing contribution of flow chemistry and microreactor technology in green and sustainable synthesis. It brings together the generation of highly reactive species and their reactions in Microsystems to enable highly controlled organic syntheses on a preparative scale in timescales of a few seconds or less.

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