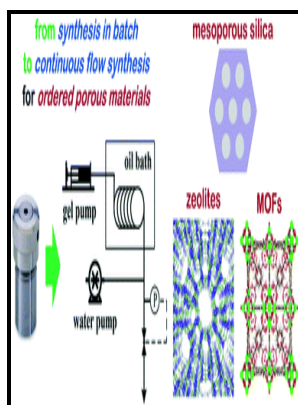


# Flash chemistry - fast organic synthesis in microsystems

Wiley - Flash Chemistry : Fast Organic Synthesis in Microsystems by Jun



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



Filesize: 55.64 MB

Tags: #Flash #Chemistry #: #Fast #Organic #Synthesis #in #Microsystems #by #Jun

## Flash chemistry using electrochemical method and microsystems

. Phenylglycine Phg, 4-hydroxyphenylglycine Hpg and 3,5-dihydroxyphenylglycine Dpg are the most important representatives of the arylglycines because they can be found in various biologically active natural products such as formadecin, ramoplanin, vancomycin and teicoplanin.

## Flash Chemistry: Fast Organic Synthesis in Microsystems

How to cite this article: Fuse, S. Received 14 Nov 2016, Accepted 20 Feb 2017, Published 14 Mar 2017 Microreactor technology and flow chemistry could play an important role in the development of green and sustainable synthetic processes. The enantiomeric excess of the products was about 96%.

## Synthesis / TavazSearch

Good yields were obtained from different 2-chlorobenzamides disclosing that either electron-donating or electron withdrawing ortho-substituents were tolerated. This industrially relevant reduction was executed by using O<sub>2</sub> at 20 bar, four residence units at 60 °C and consecutive feedings with N<sub>2</sub>H<sub>4</sub>·H<sub>2</sub>O in order to obtain full conversion in dihydroartemisinic acid 29, DHAA.

## Synthesis / TavazSearch

The disulfides were obtained with excellent yields, and the process was executed on challenging thiols as in the case of disulfide 12, used as food flavour additive.

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