

Accepted Manuscript

Reaction screening in continuous flow reactors

Dara Khairunnisa Binte Mohamed, Xingjian Yu, Jiesheng Li, Jie Wu

PII: S0040-4039(16)30929-7

DOI: <http://dx.doi.org/10.1016/j.tetlet.2016.07.072>

Reference: TETL 47934

To appear in: *Tetrahedron Letters*

Received Date: 30 June 2016

Accepted Date: 22 July 2016



Please cite this article as: Mohamed, D.K.B., Yu, X., Li, J., Wu, J., Reaction screening in continuous flow reactors, *Tetrahedron Letters* (2016), doi: <http://dx.doi.org/10.1016/j.tetlet.2016.07.072>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Tetrahedron Letters
journal homepage: www.elsevier.com

Reaction screening in continuous flow reactors

Dara Khairunnisa Binte Mohamed, Xingjian Yu, Jiesheng Li, Jie Wu*

Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543, Singapore

ARTICLE INFO

ABSTRACT

Article history:

Received
Received in revised form
Accepted
Available online

Keywords:

Continuous flow reactors
Reaction screening
Continuous variables
Discrete variables
Cross-contamination

Continuous flow systems have emerged as powerful tools for synthetic community which can enable highly automated synthesis. They hold many advantages in comparison to conventional batch methods, and have been favorably applied in reaction screening and optimization. Continuous flow reactors have shown remarkable efficiency during screening of reaction parameters such as temperature, pressure, residence time, catalysts, solvents, as well as substrates. This review describes selected recent examples on utilizing continuous flow systems in the screening of continuous and discrete variables for the synthesis of small organic molecules. Benefits and limitations will be briefly covered.

2009 Elsevier Ltd. All rights reserved.

Download English Version:

<https://daneshyari.com/en/article/5258651>

Download Persian Version:

<https://daneshyari.com/article/5258651>

[Daneshyari.com](https://daneshyari.com)