



Syrris Flow Chemistry Publications

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The following document lists all of the publications that feature the Asia Flow Chemistry System from 2006 – 2018.

Enzymatic microreactors in biocatalysis: history, features, and future perspectives

Enzo Laurenti, Ardson dos Santos Vianna Jr.

Biocatalysis, 2015, 1, 148-165**Release of Terminal Alkynes via Tandem Photodeprotection and Decarboxylation of o-Nitrobenzyl Arylpropiolates in a Flow Microchannel Reactor**

Behabitu Ergette Tebikachew, Karl Börjesson, Nina Kann, and Kasper Moth-Poulsen

Bioconjugate Chem., 2018, 29 (4), pp 1178–1185**Dehydration of an Insoluble Urea Byproduct Enables the Condensation of DCC and Malonic Acid in Flow**

Alexander G. O'Brien, Eric M. Ricci, and Michel Journet

Org. Process Res. Dev., 2018, 22 (3), pp 399–402**Continuous Endoperoxidation of Conjugated Dienes and Subsequent Rearrangements Leading to C–H Oxidized Synthons**

Juliana M. de Souza, Timothy J. Brocksom, D. Tyler McQuade, and Kleber T. de Oliveira

J. Org. Chem., Article ASAP**Gold nanoparticles coupled with graphene quantum dots in organized medium to quantify aminoglycoside anti-biotics in yellow fever vaccine after solid phase extraction using a selective imprinted polymer**

Carlos A.T. Toloza, Joseany M.S. Almeida, Sarzamin Khan, Yasmin G. dos Santos, Andrea R. da Silva, Eric C. Romani, Dunieskys G. Larrude, Fernando L. Freire Jr. and Ricardo Q. Aucélio

Journal of Pharmaceutical and Biomedical Analysis, Volume 158, 2018, Pages 480-493**Continuous-Flow Reductive Alkylation: Synthesis of Bio-based Symmetrical and Dissymmetrical Ethers**

Sophie Bruniaux, Denis Luart, Christophe Len

Synthesis 2018; 50(09): 1849-1856**Advances in electro- and sono-microreactors for chemical synthesis**

Tomas Hardwick and Nisar Ahmed

RSC Adv., 2018, 8, 22233-22249

Peptide Bond Formations through Flow Chemistry.

Nisar Ahmed

Chemical Biology & Drug Design, 92, 1, (1398-1398), (2018).

Towards chip prototyping: a model for droplet formation at both T and X-junctions in dripping regime

Vansteene, A., Jasmin, JP., Cavadias, S. et al.

Microfluid Nanofluid (2018) 22: 61.

Intensification of photocatalytic degradation of organic dyes and phenol by scale-up and numbering-up of meso- and microfluidic TiO₂ reactors for wastewater treatment

D.S.de Sá, L.E.Vasconcellos, J.R.de Souza, B.A.Marinkovic, T.Del Rosso, D.Fulvio, D.Maza, A.Massi, and O.Pandoll

Journal of Photochemistry and Photobiology A: Chemistry, Volume 364, 2018, Pages 59-75

Closing the gap for efficient immobilization of biocatalysts in continuous processes: HaloTag™ fusion enzymes for a continuous enzymatic cascade towards a vicinal chiral diol

J. Döbber, T. Gerlach, H. Offermann, D. Rother and M. Pohl
Green Chem., 2018,20, 544-552

Automated measurements of gas-liquid mass transfer in micropacked bed reactors

Jisong Zhang, Andrew R. Teixeira and Klavs F. Jensen

Reaction Engineering, Kinetics and Catalysis, 2018 (64), 2, 564-570

Design and construction of an open source-based photometer and its applications in flow chemistry

Gabriel Glotz and C. Oliver Kappe

React. Chem. Eng., 2018, Advance Article

Continuous end-to-end production of solid drug dosage forms: Coupling flow synthesis and formulation by electrospinning

Attila Balogh, András Domokos, Balázs Farkas, Attila Farkas, Zsolt Rapi, Domokos Kiss, Zoltán Nyíri, Zsuzsanna Eke, Györgyi Szarka, Róbert Örkényi, Béla Mátravölgyi, Ferenc Faigl, György Marosi, Zsombor Kristóf Nagy

Chemical Engineering Journal, Volume 350, 15 October 2018, Pages 290-299

Dehydration of an Insoluble Urea Byproduct Enables the Condensation of DCC and Malonic Acid in Flow

Alexander G. O'Brien, Eric M. Ricci, and Michel Journet

Org. Process Res. Dev., 2018, 22 (3), pp 399–402

Redesign of a Grignard-Based Active Pharmaceutical Ingredient (API) Batch Synthesis to a Flow Process for the Preparation of Melitracen HCl

Michael J. Pedersen, Tommy Skovby, Michael J. Mealy, Kim Dam-Johansen, and Søren Kiil

Org. Process Res. Dev., 2018, 22 (2), pp 228–235

Total Synthesis of Mycenaerubin A, Sanguinolentaquinone and Mycenaflavin B and their Cytotoxic Activities

Jana Backenköhler, Bernhard Reck, Markus Plaumann, Peter Spiteller

Eur. J. Org. Chem. · Volume 2018, Issue 22, 2018, Pages 2806-2816

Advancing Flow Chemistry Portability: A Simplified Approach to Scaling Up Flow Chemistry

François Lévesque, Nicholas J. Rogus, Glenn Spencer, Plamen Grigorov, Jonathan P. McMullen, David A. Thaisrivongs, Ian W. Davies, and John R. Naber

Org. Process Res. Dev., Article ASAP

Continuous Endoperoxidation of Conjugated Dienes and Subsequent Rearrangements Leading to C–H Oxidized Synthons

Juliana M. de Souza, Timothy J. Brocksom, D. Tyler McQuade, and Kleber T. de Oliveira

J. Org. Chem., Article ASAP

Studies on the dynamic resolution of Crizotinib intermediate

Alexandre da S. de França, Marcus V. M. Silva, Rebeca V. Neves, Stéfania P. de Souza, Raquel A. C. Leão, Carlos M. Monteiro, Ângelo Rocha, Carlos A. M. Afonso, Rodrigo O. M. A. de Souza

Bioorganic & Medicinal Chemistry, Volume 26, Issue 7, 1 April 2018, Pages 1333-1337

n-Butyl levulinate synthesis using lipase catalysis: comparison of batch reactor versus continuous flow packed bed tubular microreactor

Kalpesh V. Bhavsar and Ganapati D. Yadav

J Flow Chem (2018) 8: 97.

Antitumor activity of kinetochore-associated protein 2 siRNA against lung cancer patient-derived tumor xenografts

Makita Y, Teratani M, Murata S, Hoashi Y, Matsumoto S and Kawamata Y

Oncol Lett. 2018 Apr;15(4):4676-4682

Rapid, selective and stable HaloTag-LbADH immobilization directly from crude cell extract for the continuous biocatalytic production of chiral alcohols and epoxides

J. Döbber, M. Pohl, S. V. Ley and B. Musio

React. Chem. Eng., 2018, 3, 8-12

Organic electrosynthesis – A road to greater application. A mini review

Derek Pletcher

Electrochemistry Communications, Volume 88, March 2018, Pages 1-4

Sol-gel Entrapped Nitroxyl Radicals: Catalysts of Broad Scope

Dr. Rosaria Ciriminna, Dr. Valerica Pandarus, Dr. Francois Béland and Dr. Mario Pagliaro

ChemCatChem, Special Issue: Supported Molecular Catalysts, 10 (8), 2018, 1731

Automated separation of immiscible liquids using an optically monitored porous capillary

James H. Bannock, Tsz Yin (Martin) Lui, Simon T. Turner and John C. deMello
React. Chem. Eng., 2018, Advance Article

Closing the gap for efficient immobilization of biocatalysts in continuous processes: HaloTag™ fusion enzymes for a continuous enzymatic cascade towards a vicinal chiral diol

J. Döbber, a T. Gerlach, a H. Offermann, a D. Rothera and M. Pohl* a

Green Chem., 2018, 20, 544-552

Towards chip prototyping: a model for droplet formation at both T and X-junctions in dripping regime

Axel Vansteene, Jean-Philippe Jasmin, Siméon Cavadias, Clarisse Mariet and Gérard Cote

Microfluid Nanofluid (2018) 22: 61.

Microfluidic-assisted nanoprecipitation of (PEGylated) poly (d,l-lactic acid-co-caprolactone): Effect of macromolecular and microfluidic parameters on particle size and paclitaxel encapsulation

Enrique Lallana, Roberto Donno, Davide Magri, Katie Barker, Zahid Nazir, Kevin Treacher, M. Jayne Lawrence, Marianne Ashford and Nicola Tirelli

International Journal of Pharmaceutics, Volume 548, Issue 1, 2018, Pages 530-539

Continuous flow biocatalysis

Joshua Britton, Sudipta Majumdera and Gregory A. Weiss

Chem. Soc. Rev., 2018, Advance Article

On-Demand Generation and Consumption of Diazomethane in Multistep Continuous Flow Systems

Hongwei Yang, Benjamin Martin, and Berthold Schenkel

Org. Process Res. Dev., 2018, 22 (4), pp 446–456

Atom- and Mass-economical Continuous Flow Production of 3-Chloropropionyl Chloride and its Subsequent Amidation

Marine Movsisyan, Dr. Thomas S. A. Heugebaert, Dr. Bart I. Roman, Dr. Rudolf Dams, Rudy Van Campenhout, Dr. Matthias Conradi and Prof. Dr. Christian V. Stevens

Chemistry A European Journal, in press

Peptide Bond Formations through Flow Chemistry.

Nisar Ahmed,

Chemical Biology & Drug Design, 92, 1, (1398-1398), (2018).

Continuous-Flow Synthesis of (R)-Propylene Carbonate: An Important Intermediate in the Synthesis of Tenofovir

Leandro S. M. Miranda, Bruno A. C. Horta, Sérgio F. Pedraza, Otavio V. de Carvalho, Karla C. Pais, José H. C. Terra and Rodrigo O. M. A. de Souza

European Journal of Organic Chemistry, 2018, Issue 23, Pages 2931-2938

Continuous multistep synthesis of 2-(azidomethyl)oxazoles

Thaís A Rossa, Nicolás S Suveges, Marcus M Sá, David Cantillo, and C Oliver Kappe

Beilstein J Org Chem. 2018; 14: 506–514.

Recyclable alkylated Ru(bpy)₃²⁺ complex as a visible-light photoredox catalyst for perfluoroalkylation

Xiaodan Zhang, Yaming Li, Xinyu Hao, Kun Jin, Rong Zhang and Chunying Duan

Tetrahedron, Volume 74, Issue 15, 12 April 2018, Pages 1742-1748

Fluorescent Imaging Analysis for Distribution of Fluorescent Dye Labeled- or Encapsulated-Liposome in Monocrotaline-Induced Pulmonary Hypertension Model Rat

Yo Muraki, Midori Yamasaki, Hirohisa Takeuchi, Kimio Tohyama, Noriyasu Sano, and Takanori Matsuo

Chem. Pharm. Bull. 66, 270–276 (2018)

Continuous Flow Synthesis of a Key 1,4-Benzoxazinone Intermediate via a Nitration/Hydrogenation/Cyclization Sequence

David Cantillo, Bernd Wolf, Roland Goetz, and C. Oliver Kappe

Org. Process Res. Dev., 2017, 21 (1), pp 125–132

Nanomanufacturing through microfluidic-assisted nanoprecipitation: Advanced analytics and structure-activity relationships

Donno R, Gennari A, Lallana E, De La Rosa JMR, d'Arcy R, Treacher K, Hill K, Ashford M and Tirelli N.

International Journal of Pharmaceutics, Volume 534, Issues 1–2, 20 December 2017, Pages 97-107

Design and 3D printing of a stainless steel reactor for continuous difluoromethylations using fluoroform

Bernhard Gutmann, Manuel Köckinger, Gabriel Glotz, Tania Ciaglia, Eyke Slama, Matej Zadavec, Stefan Pfanner, Manuel C. Maier, Heidrun Gruber-Wölfler and C. Oliver Kappe

React. Chem. Eng., 2017, 2, 919-927

Microreactor Technology as a Tool for the Synthesis of a Glitazone Drug Intermediate

Danilo da Silva Pinheiro, Renan Rodrigues de Oliveira Silva, Paulo Victor Cuesta Calvo, Milena Fernandes da Silva, Attilio Converti, Mauri Sergio and Alves Palma

Chemical and Engineering Technology, Accepted article

The assembly and use of continuous flow systems for chemical synthesis

Joshua Britton and Timothy F Jamison

Nature Protocols volume12, pages2423–2446 (2017)

Kinetic Resolution of (R,S)- α -Tetralol by Immobilized Candida antarctica Lipase B: Comparison of Packed-Bed over Stirred-Tank Batch Bioreactor

Manoj P. Kamble and Ganapati D. Yadav

Ind. Eng. Chem. Res., 2017, 56 (7), pp 1750–1757

Evaluating Dihydroazulene/Vinylheptafulvene Photoswitches for Solar Energy Storage Applications

Zhihang Wang, Jonas Udmark, Dr. Karl Börjesson, Dr. Rita Rodrigues, Dr. Anna Roffey, Dr. Maria Abrahamsson, Prof. Dr. Mogens Brøndsted and Prof. Dr. Kasper Moth-Poulsen

Chem Sus Chem, Volume 10, Issue 15, 2017, Pages 3049–3055

Chapter One - Enabling Chemistry Technologies and Parallel Synthesis—Accelerators of Drug Discovery Programmes

A.Vasudevan, A.R.Bogdan, H.F.Koolman, Y.Wang and S.W.Djuric
Progress in Medicinal Chemistry, Volume 56, 2017, Pages 1-35

Continuous Flow Homolytic Aromatic Substitution with Electrophilic Radicals: A Fast and Scalable Protocol for Trifluoromethylation

Júlia L. Monteiro, Dr. Paula F. Carneiro, Dr. Petteri Elsner, Dr. Dominique M. Roberge, Dr. Peter G. M. Wuts, Katherine C. Kurjan, Dr. Bernhard Gutmann and Prof. Dr. C. Oliver Kappe
Chemistry – A European Journal, Volume 23, Issue 1, 2017, Pages 176–186

Flow Electrolysis Cells for the Synthetic Organic Chemistry Laboratory

Robert A. Green, and Richard C. D. Brown
Chem. Rev., Article ASAP

An Environmentally Friendly Nb–P–Si Solid Catalyst for Acid-Demanding Reactions

Antonio Aronne, Martino Di Serio, Rosa Vitiello, Nigel J. Clayden, Luciana Minieri, Claudio Imparato, Alessandro Piccolo, Pasquale Pernice, Paolo Carnit, and Antonella Gervasini
J. Phys. Chem. C, 2017, 121 (32), pp 17378–17389

Reaction Calorimetry in Microreactor Environments—Measuring Heat of Reaction by Isothermal Heat Flux Calorimetry

Gabriel Glotz, Donald J. Knoechel, Philip Podmore, Heidrun Gruber-Woelfler, and C. Oliver Kappe
Org. Process Res. Dev., 2017, 21 (5), pp 763–770

Molecularly Engineered Azobenzene Derivatives for High Energy Density Solid-State Solar Thermal Fuels

Eugene N. Cho, David Zhitomirsky, Grace G. D. Han, Yun Liu, and Jeffrey C. Grossman*
ACS Appl. Mater. Interfaces, 2017, 9 (10), pp 8679–8687

A chemoselective and continuous synthesis of m-sulfamoylbenzamide analogues

Arno Verlee, Thomas Heugebaert, Tom van der Meer, Pavel I. Kerchev, Frank Van Breusegem and Christian V. Stevens
Beilstein J. Org. Chem. 2017, 13, 303–312.

Decomposition of Methyl Formate over Supported Pd Catalysts

Satyanarayana Reddy Akuri, Chaitanya Dhoke, K. Rakesh, Shweta Hegde, Sreejit A. Nair, Raj Deshpande and P. Manikandan
Catalysis Letters, 2017, Volume 147, Issue 5, pp 1285–1293

Synthesis of Urea Derivatives in Two Sequential Continuous-Flow Reactors

Peter Bana, Ágnes Lako, Nora Zsuzsa Kiss, Zoltan Beni, Áron Szigetvari, Janos Koti, György Istvan Turós, Janos Eles, and Istvan Greiner

Org. Process Res. Dev. 2017, 21, 611–622

A Unified Continuous Flow Assembly-Line Synthesis of Highly Substituted Pyrazoles and Pyrazolines

Dr. Joshua Britton, Prof. Dr. Timothy F. Jamison

Angewandte Chemie – Int Ed. Volume 56, Issue 30, July 17, 2017, Pages 8823–8827

Continuous-flow synthesis of highly functionalized imidazo-oxadiazoles facilitated by microfluidic extraction

Ananda Herath¹ and Nicholas D P Cosford¹

Beilstein J Org Chem. 2017; 13: 239–246.

Flow chemistry—Microreaction technology comes of age

Klavs F. Jensen

AIChE Journal, Volume 63, Issue 3, 2017, Pages 858–869

Combining batch and continuous flow setups in the end-to-end synthesis of naturally occurring curcuminoids

Christian C. Carmona-Vargas^a, Leandro de C. Alves^b, Timothy J. Brocksom^a and Kleber T. de Oliveira

React. Chem. Eng., 2017, 2, 366-374

Tuning reaction products by constrained optimisation

Barnaby E. Walker, James H. Bannock, Adrian M. Nightingale and John C. deMello

React. Chem. Eng., 2017, Advance Article

Heterogeneous catalysis in continuous flow microreactors: A review of methods and applications

Abdulkadir Tanimua, Stephan Jaenicke and Khalid Alhooshania

Chemical Engineering Journal, Volume 327, 1 November 2017, Pages 792-821

H₂-Driven biocatalytic hydrogenation in continuous flow using enzyme-modified carbon nanotube columns

Ceren Zor, Holly A. Reeve, Jonathan Quinson, Lisa A. Thompson, Thomas H. Lonsdale, Frank Dillon, Nicole Grobert and Kylie A. Vincent

Chem. Commun., 2017, 53, 9839-9841

Continuous flow dynamic kinetic resolution of rac-1-phenylethanol using a single packed-bed containing immobilized CAL-B lipase and VOSO₄ as racemization catalysts

Amanda S. de Miranda, Marcus V. de M. Silva, Fernanda C. Dias, Stefania P. de Souza, Raquel A. C. Leão and Rodrigo O. M. A. de Souza

React. Chem. Eng., 2017, 2, 375-381

Environment-Friendly Synthesis of Indoline Derivatives Using Flow Chemistry Techniques

Róbert Örkényi,*[a] Gyula Beke,[b] Eszter Riethmüller,[c] Zoltán Szakács,[b] János Kóti, [b] Ferenc Faigl,[a] János Éles[b] and István Greiner[b]

Eur. J. Org. Chem. Accepted, unedited articles published online and citable. The final edited and typeset version of record will appear in future.

Towards More Efficient. Greener Syntheses through Flow Chemistry

Justin A.M. Lummiss, Peter D. Morse, Rachel L. Beingessner and Timothy F. Jamison

The Chemical Record, Volume 17, Issue 7, 2017, Pages 667–680

Synthesis of α -amino-1,3-dicarbonyl compounds via Ugi flow chemistry reaction: access to functionalized 1,2,3-triazoles

Stanley N. S. Vasconcelos¹ · Evelin Fornari¹ · Ignez Caracelli² · Hélio A. Stefani¹

Molecular Diversity, pp 1–10

Development of a Continuous-Flow Sonogashira Cross-Coupling Protocol using Propyne Gas under Process Intensified Conditions

Desiree Znidar, Christopher A. Hone, Phillip Inglesby, Alistair Boyd, and C. Oliver Kappe

Org. Process Res. Dev., 2017, 21 (6), pp 878–884

Utilization of flow chemistry in catalysis: New avenues for the selective synthesis of Bis(indolyl)methanes

Swapna S. Mohapatraab, Zoe E. Wilsona, Sujit Roy, Steven V. Ley

Tetrahedron, Volume 73, Issue 14, 6 April 2017, Pages 1812-1819

Hydrodynamics of gas-liquid flow in micropacked beds: Pressure drop, liquid holdup, and two-phase model

Jisong Zhang, Andrew R. Teixeira, Lars Thilo Kögl, Lu Yang and Klavs F. Jensen

AIChE Journal, Volume 63, Issue 10, 2017, Pages 4694–4704

Selective hydrogenation of alkynes over ppm-level Pd/Boehmite/Al₂O₃ beads in a continuous-flow reactor

Zhilin Wu, Emanuela Calcio Gaudino, Maela Manzoli, Katia Martina, Maxime Drobot, Ulrich Krtshilc and Giancarlo Cravotto

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Continuous synthesis of the metal—organic framework CPO-27-Ni from aqueous solutions

Terje Didriksen and Richard Blom

Journal of Flow Chemistry, Volume 7, Issue 1

Automated measurements of gas-liquid mass transfer in micropacked bed reactors

Jisong Zhang, Andrew R. Teixeira and Klavs F. Jensen

American Institute of Chemical Engineers (AIChE) Received: Mar 14, 2017; Revised: Jul 11, 2017; Accepted: Aug 22, 2017

Multi-step continuous-flow synthesis

Joshua Britton and Colin L. Raston

Chem. Soc. Rev., 2017, 46, 1250-1271

Mixing Performance Evaluation for Commercially Available Micromixers Using Villermaux–Dushman Reaction Scheme with the Interaction by Exchange with the Mean Model

Joseph M. Reckamp, Ashira Bindels, Sophie Duffield, Yangmu Chloe Liu, Eric Bradford, Eric Ricci, Flavien Susanne and Andrew Rutter

Org. Process Res. Dev., 2017, 21 (6), pp 816–820

Synthesis of Geraniol Esters in a Continuous-Flow Packed-Bed Reactor of Immobilized Lipase: Optimization of Process Parameters and Kinetic Modeling

Harshada M. Salvi 1 & MHarshada M. Salvi, Manoj P. Kamble and Ganapati D. Yadav

Applied Biochemistry and Biotechnology, pp 1–14

Continuous Flow Synthesis of a Key 1,4-Benzoxazinone Intermediate via a Nitration/Hydrogenation/Cyclization Sequence

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Org. Process Res. Dev., 2017, 21 (1), pp 125–132

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Eur. J. Org. Chem.. Accepted Author Manuscript

Development of a Safe Continuous Manufacturing Route to 2-(4-Isopropyl-1H-1,2,3-triazol-1-yl)acetic Acid

Staffan Karlsson, Calum Cook, Hans Emtenäs, Kenny Fan, Paul Gillespie, and Mubina Mohamed

Org. Process Res. Dev., Article ASAP

An integrated chemical biology approach reveals the mechanism of action of HIV replication inhibitors

Author links open overlay panel Nicholas Pagano¹ Peter Terietea¹ Margrith E. Mattmanna¹ Li Yanga¹ Beth A. Snyder¹ Beth Zhaohui Caib¹ Marantha L. Heilb¹ Nicholas D. P. Cosford¹

Bioorganic & Medicinal Chemistry

Available online 8 April 2017

Thiophene ring-fragmentation reactions: Principles and scale-up towards NLO materials

Daniel Lumpia, Johannes Steindla, Sebastian Steinera, Victor Carla, Paul Kautnya, Michael Schöna, Florian Glöcklhofer, Brigitte Holzera, Berthold Stögerb, Ernst Horkela, Christian Hametnera, and Georg Reiderc,

Tetrahedron, Volume 73, Issue 5, 2 February 2017, Pages 472–480

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Comparison of different microreactors for solvent-free, continuous synthesis of [EMIM][EtSO₄] ionic liquid: An experimental and CFD study

N.Sen, K.K. Singh, S.Mukhopadhyay and K.T.Shenoy

Journal of Molecular Liquids, Volume 222, October 2016, Pages 622-631

Current status and future prospects for enabling chemistry technology in the drug discovery process

Djuric SW, Hutchins CW, Talaty NN.

F1000 Research. 2016;5:2426

Green microfluidic synthesis of monodisperse silver nanoparticles via genetic algorithm optimization

Daniel L. A. Fernandes, Cristina Paun, Mariia V. Pavliuk, Arthur B. Fernandes, Erick L. Bastos and Jacinto Sá

RSC Adv., 2016,6, 95693-95697

The Photochemical Rearrangement of Chiral Oxaziridines in Continuous Flow. Application Toward the Scale-Up of a Chiral Bicyclic Lactam

John E Cochran, and Nathan D. Waal

Org. Process Res. Dev., 2016, 20 (8), pp 1533–1539

Single-stage micro-scale extraction: Studies with single microbore tubes and scale-up

K.K.Singha, S.Mukhopadhyayab and K.T.Shenoya

Separation and Purification Technology, Volume 158, 28 January 2016, Pages 160-170

Electrosynthesis in Extended Channel Length Microfluidic Electrolysis Cells

Robert A. Green, Richard C. D. Brown and Derek Pletcher

J. Flow Chem. 2016, 6(3), 191–197

Liquid phase oxidation chemistry in continuous-flow microreactors

H. P. L. Gemoets, Y. Su, M. Shang, V. Hessel, R. Luque, and T. Noël

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Laboratory-Scale membrane reactor for the generation of anhydrous diazomethane

D. Dallinger, V. D. Pinho, B. Gutmann and C. O. Kappe

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Microfluidic implementation of Ru-catalyzed methylation of amines using CO₂ as carbon source

G. Perkins, O. Khatib, M. Peterson, A. Kallinen, Tien Pham, A. Ung, I. Greguric, and G. Pascali

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Toward a Large-Scale approach to Milnacipran Analogues using Diazo prebCompounds in Flow Chemistry

S. T. R. Müller, A. Murat, P. Hellier, and T. Wirth

Org. Process Res. Dev., 2016, **20**, 495-502

Trimetaphosphate and imidazole – possible reagents in prebiotic peptide synthesis

N. Y. Serov, V. G. Shtyrlin, and K. R. Khayarov

Phosphorous, Sulfur, and Silicon and the Related elements, 2016, DOI: 10.1080/10426507.2016.1213258

Opportunities and challenges in the utilisation of microfluidic technologies to the production of radiopharmaceuticals

G Pascali, PA Salvadori

Chemistry Today, 2016, **34**, 28-32

Efficient Synthesis of Chloromethyl Methyl Ether and One-Pot Hydroxyl Protection

Dongqing Zheng, Wei Cao, Haiyan Ma, Kai Ding

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(Book) Nanomaterial Characterization: An Introduction

Ratna Tantra

Wiley, 2016, *chapter 2.7.2.3*

Flow synthesis of Heterocycles

Marine Movsisyan, Matthias M. A. Moens, Christian V. Stevens

Adv. in Heterocyclic Chem., 2016, **Volume 119**, 22-55

(Book) Continuous-Flow Chemistry in the Research Laboratory: Modern Organic Chemistry in Dedicated Reactors at the Dawn of the 21st Century

Toma Glasnov

Springer, 2016, **11**

Modular Equipment for Chemical Process Development and Small-Scale Production in Multipurpose Plants

Norbert Kockmann

ChemBioEng Reviews, 2016, **Volume 3**, Issue 1, 5-15

Synthesis of Natural and Unnatural Cyclic Peptides Enabled by Flow Chemistry

Daniel Lücke, Toryn Dalton, Steven V. Ley, and Zoe E. Wilson

Chem. European Journal, 2016, **Volume 22**, Issue 12, 4206-4217

A convenient enantioselective CBS-reduction of arylketones in flow-microreactor systems

Sonia De Angelis, Maddalena De Renzo, Claudia Carlucci, Leonardo Degennaro and Renzo Luisi

Org. Biomol. Chem., 2016, **14**, 4304-4311

Fine chemical syntheses under flow using SiliaCat catalysts

Rosaria Ciriminna,^a Valerica Pandarus,^b François Béland^{*b} and Mario Pagliaro^{*a}

Catal. Sci. Technol., 2016, *Advance Article*

CO bond formation in a microfluidic reactor: high yield SNAr substitution of heteroaryl chlorides

Mohammad Parvez Alam, Barbara Jagodzinska, Jesus Campagna, Patricia Spilman, Varghese John

Tetrahedron Letters, *Volume 57*, *Issue 19*, 2016, 2059–2062

Combining a flow reactor with spray dryer to allow the preparation of food-grade quality sodium 2-polyhydroxyalkyl-1,3-thiazolidine-4-carboxylates with a low environmental impact

Olalla Novo, Mercè Balcells, Ramon Canela-Garayoa and Jordi Eras

RSC Adv., 2016, **6**, 6651-6657

Single-stage micro-scale extraction: Studies with single microbore tubes and scale-up

Mayur Darekara, K.K. Singha, S. Mukhopadhyaya and K.T. Shenova

Separation and Purification Technology, *Volume 158*, 2016, 160–170

Intensified Eu(III) extraction using ionic liquids in small channels

Qi Li, Panagiota Angeli

Chemical Engineering Science, 2016, **143**, 276 – 286.

Iron-Catalyzed Amination of Sulfides and Sulfoxides with Azides in Photochemical Continuous Flow Synthesis

Hélène Lebel*, Henri Piras and Marie Borduy

Catalysis, 2016, **6**, 1109 – 1112.

Flow chemistry vs. flow analysis

Marek Trojanowicz

Talanta, 2016, **146**, 621 – 640.

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Enzymatic microreactors in biocatalysis: history, features, and future perspectives

Enzo Laurenti, Ardson dos Santos Vianna Jr.

Biocatalysis, 2015, **1**, 148-165

Development of a continuous flow sulfoxide imidation protocol using azide sources under superacidic conditions

B. Gutmann, P. Elsner, A. O'K. McMullan, W. Goundry, D. M. Roberge, and C. O. Kappe

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B. Pieber, D. P. Cox, and C. O. Kappe

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A sequential ugi multicomponent/Cu-catalysed azide-alkyne cycloaddition approach for the continuous flow generation of cyclic peptoids

C. E. M. Salvador, B. Pieber, P. M. Neu, A. Torvisco, C. K. Z. Andrade, and C. O. Kappe

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