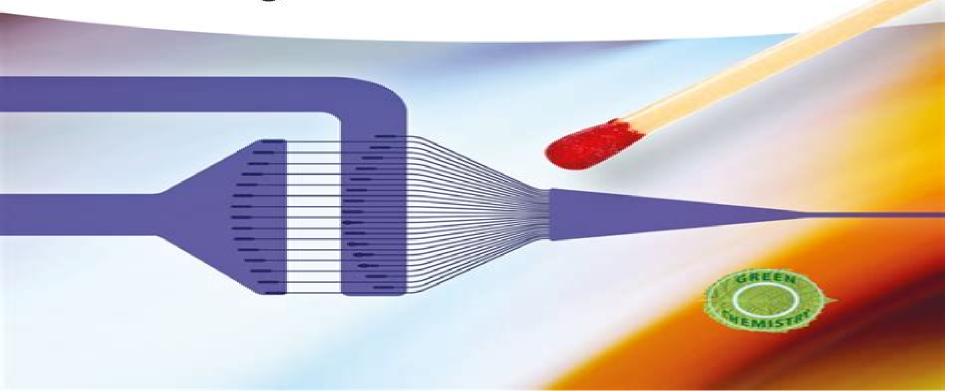


Edited by Thomas Wirth

Microreactors in Organic Chemistry and Catalysis

Second, Completely Revised and Enlarged Edition



Microreactors In Organic Chemistry And Catalysis

Wladimir Reschetilowski

Microreactors In Organic Chemistry And Catalysis:

Microreactors in Organic Chemistry and Catalysis Thomas Wirth, 2013-02-22 For the second edition of Microreactors in Organic Chemistry and Catalysis all chapters have been revised and updated to reflect the latest developments in this rapidly developing field This new edition has 60% more content and it remains a comprehensive publication covering most aspects of the topic The use of microreactors in homogeneous heterogeneous as well as biphasic reactions is covered in the main part of the book together with catalytic bioorganic and automation approaches. The initial chapters also provide a solid physical chemistry background on fluidics in microdevices Finally a chapter on industrial applications and developments covers recent progress in process chemistry An excellent reference for beginners and experts alike Microreactors in Organic Synthesis and Catalysis Thomas Wirth, 2008-05-05 This one stop reference is the first book on this emerging and rapid developing field with a focus on synthesis and catalysis As such it covers all aspects from academia and industry in a clearly structured way Leading experts provide the background information as an initial aid for newcomers to the field while chapters on different reaction types and industrial applications make this an equally vital resource for specialists From the contents Introduction and background Fabrication of microractors Properties and use of microreactors Organic chemistry in microreactors Homogeneous reactions including photochemical and electrochemical reactions Heterogeneous reactions Biphasic reactions liquid liquid gas Bioorganic reactions Industrial applications Thomas Wirth is Professor of Organic Chemistry at Cardiff University in Wales After a postdoctoral stay with Kaoru Fuji at Kyoto University as a JSPS fellow he started his independent research in the group of Bernd Giese in Basel Switzerland He was invited as a visiting professor to various places University of Toronto Canada 1999 Chuo University in Tokyo Japan 2000 Osaka University Japan 2004 He was awarded the Werner Prize from the New Swiss Chemical Society in 2000 He is the author of about 80 publications and has written or edited 4 books Flow and Microreactor Technology in Medicinal Chemistry Esther Alza, 2022-06-13 Learn to master a powerful technology to enable a faster drug discovery workflow The ultimate dream for medicinal chemists is the ability to synthesize new drug like compounds with the push of a button The key to synthesizing chemical compounds more quickly and accurately lies in computer controlled technologies that can be optimized by machine learning Recent developments in computer controlled automated syntheses that rely on miniature flow reactors with integrated analysis of the resulting products provide a workable technology for synthesizing new chemical substances very quickly and with minimal effort In Flow and Microreactor Technology in Medicinal Chemistry early adopters of this ground breaking technology describe its current and potential uses in medicinal chemistry Based on successful examples of the use of flow and microreactor synthesis for drug like compounds the book introduces current as well as emerging uses for automated synthesis in a drug discovery context Flow and Microreactor Technology in Medicinal Chemistry readers will also find Numerous case studies that address the most common applications of this technology in the day to day work of medicinal

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Design and Engineering of Microreactor and Smart-Scaled Flow Processes Volker Hessel, 2018-10-08 This book is a printed edition of the Special Issue Design and Engineering of Microreactor and Smart Scaled Flow Processes that was published in Processes Microreactors in Preparative Chemistry Wladimir Reschetilowski, 2013-09-13 This is the first book in the field to focus on these aspects providing extremely valuable information unavailable elsewhere for anyone seeking the practical application of microreactor technology in preparative chemistry. The topics covered branch out in three different directions To begin with the knowledge necessary for the preparative chemistry concerning the influence of the so called microeffects on the reaction procedure and on mass and heat transfer as well as the surface phenomena are provided in detail Next practical aspects of the synthesis of various basic chemicals and fine chemicals polymers bioproducts and nanoparticles are discussed including important advice for both the researcher and industrial chemist Finally reaction examples in microreactors whose reaction guidance are best understood are given together with universally applicable correlations as well as modeling approaches and transfer potential on related reaction systems With its specific instructions tips and experimental procedures for product syntheses as well as the inclusion of both the technical and theoretical background this is a must have for beginners and experts alike working in this emerging field Flow Chemistry -Fundamentals Ferenc Darvas, Volker Hessel, György Dorman, 2014-08-25 Flow Chemistry fills the gap in graduate education by covering chemistry and reaction principles along with current practice including examples of relevant commercial reaction separation automation and analytical equipment The Editors of Flow Chemistry are commended for having taken the initiative to bring together experts from the field to provide a comprehensive treatment of fundamental and practical considerations underlying flow chemistry. It promises to become a useful study text and as well as reference for the graduate students and practitioners of flow chemistry Professor Klavs Jensen Massachusetts Institute of Technology USA Broader

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