

Matlosz · Ehrfeld · Baselt (Eds.)

Microreaction Technology

**IMRET 5: Proceedings of the Fifth International
Conference on Microreaction Technology**



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Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology

M. Matlosz, W. Ehrfeld, J.P. Baselt



Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology:

Microreaction Technology M. Matlosz, W. Ehrfeld, J.P. Baselt, 2012-12-06 IMRET 5 featured more than 80 oral and poster communications covering the entire interdisciplinary field from design production modeling and characterization of microreactor devices to application of microstructured systems for production energy and transportation including many analytical and biological applications A particularly strong topic was the investigation of the potential of microstructuring of reactors and systems components for process intensification Perspectives of combining local in situ data acquisition with appropriate microstructuring of actuators and components within chemical and biological devices were explored in order to enhance process performance and facilitate process control

Chemical Micro Process Engineering Volker Hessel, Steffen Hardt, Holger Löwe, 2006-03-06 Micro process engineering is approaching both academia and industry With the provision of micro devices and systems by commercial suppliers one main barrier for using these units has been eliminated More and more they become familiar thereby being one facet of the upheaval in chemical industry This book focuses on processes rather than on devices what is before and behind micro device fabrication A comprehensive and detailed overview is given on A multi faceted hierarchic analysis of chemical micro process technology Modelling and simulation of micro reactors Liquid and liquid liquid phase reactions Gas liquid reactions Gas phase reactions heterogeneous catalysis

Micro Process Engineering, 3 Volume Set Volker Hessel, Albert Renken, Jaap C. Schouten, Jun-Ichi Yoshida, 2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial applications

Microreactors for Gas/Liquid Reactions Kristin Hecht, 2014-01-01 The widespread adoption of microreactors has been hindered by a lack of knowledge regarding rules and parameters needed for their design This dissertation deals with the investigation of interfacial area and liquid mass transport in microreactors for gas liquid reactions Observations of a reduction in conversion occurring when changing from a glass laboratory device to a stainless steel process device motivated investigations into the effect of material and surface properties on the gas liquid flow and reaction This work takes a look inside the machined microstructures produced at the

Institute for Micro Process Engineering of the Karlsruhe Institute of Technology and investigates the nature of the solid surfaces resulting from the machining process the surface roughness and the contact angle of the resulting surface The effect of wettability on gas liquid flow in microreactors has been investigated in capillaries of various materials The absorption of carbon dioxide into aqueous solutions of sodium hydroxide has been used to investigate gas liquid flow and reaction in capillaries and in a microstructured falling film reactor Under certain limiting assumptions depending upon the exact rates of reaction and transport values of the interfacial area and liquid mass transport coefficient can be derived from measurements of reaction This dissertation contributes a small step towards a better understanding of how measurements of the interfacial area and mass transfer coefficient can be performed demonstrates why the effect of material wettability cannot be ignored and provides a stronger basis for further work in the development of general correlations describing microstructured gas liquid reactors

Microreactor Technology and Process Intensification Yong Wang, Jamelyn D. Holladay, 2005 Microreaction technology with its unprecedented heat and mass transfer advantages as well as uniform residence time and flow pattern is one of the few technologies with potential to develop efficient environmentally benign and compact processes Novel fabrication and processing techniques equipment and operational methods are resulting in spectacular developments that go beyond traditional chemical engineering These new developments promise improvements in process plants and lead to the transformation of our concept of chemical plants into compact safe energy efficient and environmentally sustainable processes Microsystems are now available in many devices for commercial applications including micromixers and microreactors as alternative to batch production in pharmaceutical and fine chemical industry lab on chip devices microsensors advanced rapid throughput chemical and catalyst screening tools e g combi distributed or portable power and chemical production distributed heating and cooling and even out of this world applications with NASA A wide diversity of subjects are discussed in this book ranging from catalysis to fuel processing to combinatorial techniques to separations to novel reactors all of which are enabled by microtechnology principles World renowned pioneers Klavs Jensen Volker Hessel Jennifer Holmgren and Galip Akay provide accounts on both historical developments and the current state of the art as well as insights into future research and development in microreactor and process intensification Research and developments are presented by industry universities U S National Laboratories and other laboratories located in the United States and throughout the world It is composed of peer reviewed chapters from both contributing and invited authors The review and original research topics include 1 introductory and general overviews 2 microreactors including catalysts for microreactors fuel processors milli second contact time catalysis gas to liquid technology and biomass conversion and 3 process intensification such as micro mixers reactive membranes and intensification of separation operations

Chemical Reactions and Processes Under Flow Conditions Santiago V. Luis, Eduardo García-Verdugo, 2010 Pharmaceutical and fine chemical products are typically synthesised batchwise which is an anomaly since batch processes have a series of practical

and economical disadvantages On the contrary flow continuous processes present a series of advantages leading to new ways to synthesise chemical products Flow processes enable control reaction parameters more precisely temperature residence time amount of reagents and solvent etc leading to better reproducibility safer and more reliable processes can be performed more advantageously using immobilized reagents or catalysts improve the selectivity and productivity of the process and possibly even the stability of the catalyst offer opportunities for heat exchange and energy conservation as well as an easy separation and recycling of the reactants and products by adequate process design achieve multistep syntheses by assembling a line of reactors with minimum or no purification in between two reaction steps can be assured by facile automation scale up can be easily conducted by number up With all the new research activity in manufacturing chemical products this comprehensive book is very timely as it summarises the latest trends in organic synthesis It gives an insight into flow continuous processes outlining the basic concepts and explaining the terminology of and systems approach to process design dealing with both homogeneous and heterogeneous catalysis and mini or micro reactors The book contains case studies extensive bibliographies and reference lists in each chapter to enable the reader to grasp the contents and to go on to more detailed texts on specific subjects if desired The book is written by both organic chemists and engineers giving a multidisciplinary vision of the new tools and methodologies in this field It is essential reading for organic chemists in industry or academia working alongside chemical engineers or who want to undertake chemical engineering projects It will also be of interest for chemical engineers to see how basic engineering concepts are applied in modern organic chemistry

Microfabricated Power Generation Devices Alexander Mitsos, Paul I. Barton, 2009-03-02 Energiegewinnung im Mikroma stab eine Alternative zu Energiespeichern Batterien Akkumulatoren f r mobile elektrische Ger te Durchaus wie dieser Band eindrucksvoll zeigt Die einzelnen Beitr ge verfasst von international anerkannten Fachleuten befassen sich mit Grundlagen der Energiegewinnung Strategien und Designfragen bis hin zur konkreten technischen Umsetzung Erg nzend werden Themen wie die Verarbeitung und Bereitstellung von Brennstoffen die Steuerung von Stoff und W rmestr men sowie Fragen der Wirtschaftlichkeit und Qualit tssicherung besprochen

Basic Principles in Applied Catalysis Manfred Baerns, 2013-03-09 Applied catalysis is based nowadays not only on empirical knowledge but also on the many insights that have been gained from the fundamental understanding of catalysis It also comprises knowledge and expertise from catalytic reaction engineering in particular kinetics of the catalytic reaction and its interplay with heat and mass transfer as well as fluid dynamics and the specific conditions prevailing in the type of reactor used Applied catalysis comprises many areas from a reaction point of view many types of catalytic materials from which catalysts are formed are needed to achieve high selectivities and space time yields last but not least catalysts should have a long life time to which its deactivation is detrimental A catalytic material that fulfils all the demands then often requires special mechanical and thermal treatment to be used in practise Various books have been written about specific areas as mentioned above It is the intention of this

contribution to present timely reports by well recognised experts in the field to outline the state of science and technology in selected but representative areas illustrating the basic principles of applied catalysis

New Developments and Application in Chemical Reaction Engineering Hyun-Ku Rhee, In-Sik Nam, Jong Moon Park, 2006-05-10 This Proceedings of APCRE 05 contains the articles that were presented at the 4th Asia Pacific Chemical Reaction Engineering Symposium APCRE 05 held at Gyeongju Korea between June 12 and June 15 2005 with a theme of New Opportunities of Chemical Reaction Engineering in Asia Pacific Region Following the tradition of APCRE Symposia and ISCRE the scientific program encompassed a wide spectrum of topics including not only the traditional areas but also the emerging fields of chemical reaction engineering into which the chemical reaction engineers have successfully spearheaded and made significant contributions in recent years In addition to the 190 papers being accepted six plenary lectures and 11 invited lectures are placed in two separate chapters in the front Provides an overview of new developments and application in chemical reaction engineering Topics include traditional and emerging fields Papers reviewed by experts in the field

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 microreactors Properties and use of microreactors Organic chemistry in microreactors Homogeneous reactions including photochemical and electrochemical reactions Heterogeneous reactions Biphasic reactions liquid 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

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Table of Contents Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology

1. Understanding the eBook Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - The Rise of Digital Reading Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference

On Microreaction Technology

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Personalized Recommendations
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology User Reviews and Ratings
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology and Bestseller Lists
- 5. Accessing Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology Free and Paid eBooks
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology Public Domain eBooks
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology eBook Subscription Services
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology Budget-Friendly Options
- 6. Navigating Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology eBook Formats
 - ePub, PDF, MOBI, and More
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology Compatibility with Devices
 - Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Highlighting and Note-Taking Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Interactive Elements Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On

Microreaction Technology

8. Staying Engaged with Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
9. Balancing eBooks and Physical Books Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Setting Reading Goals Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Fact-Checking eBook Content of Microreaction Technology Imret 5 Proceedings Of The Fifth International Conference On Microreaction Technology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

-
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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