

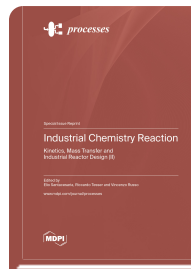
Special Issue Reprint

Industrial Chemistry Reaction: Kinetics, Mass Transfer and Industrial Reactor Design (II)

www.mdpi.com/books/reprint/7604

Edited by
Elio Santacesaria
Riccardo Tesser
Vincenzo Russo

ISBN 978-3-0365-8194-1 (Hardback)
ISBN 978-3-0365-8195-8 (PDF)



The impressive progress in commercially available computers nowadays allows the solving of complicated mathematical problems in many scientific and technical fields. This revolution has created a surge in chemical engineering science. More sophisticated approaches to catalysis, kinetics, reactor design and simulation have been developed thanks to the powerful new calculation methods available. It is well known that many chemical reactions of great interest for industrial processes and conducted on a large scale need information ranging from thermodynamics to kinetics and transport phenomena related to mass, energy and momentum. For a reliable industrial-scale reactor design, all of this information must be employed into appropriate equations and mathematical models that allow for accurate and reliable simulations for scale-up purposes. A challenge is to collect, in a measurable volume, the main advances and trends in the field of industrial chemistry thanks to the contributions of some pioneers of scientific and technological progress. We can achieve this by reviewing their past activity in the field, or providing, through original manuscripts, examples of the modern approach to the investigation of industrial chemistry reactions.

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.