

MICHELE ARESTA, ANGELA DIBENEDETTO AND FRANCK DUMEIGNIL (EDS.)

BIOREFINERIES

An Introduction

Biorefineries compiles the basic science and technologies used to convert terrestrial and aquatic biomass into essential molecular compounds and polymeric materials. The book provides in depth insights into this fairly recent concept of industrial chemistry that aims to achieve optimal economic profits while minimizing the environmental impact. Chapters written by renowned experts cover, amongst others, the application of catalysis, downstream processing, biomass sourced olefins, lignin biorefinery techniques and biogas.

Supplemented by numerous full color figures and tables, the contents impart knowledge about the involved techniques. Advanced students and experts in the field will find the summary of state-of-the-art research and current literature of valuable interest.

- Explores the enormous potential of biomass conversion as a future source for fuels and chemicals
- Focuses on both general scientific background and current innovations in the field of biorefinery
- Targets students and researchers in Chemistry, Chemical Engineering, Biotechnology, and Materials Science

The Editors



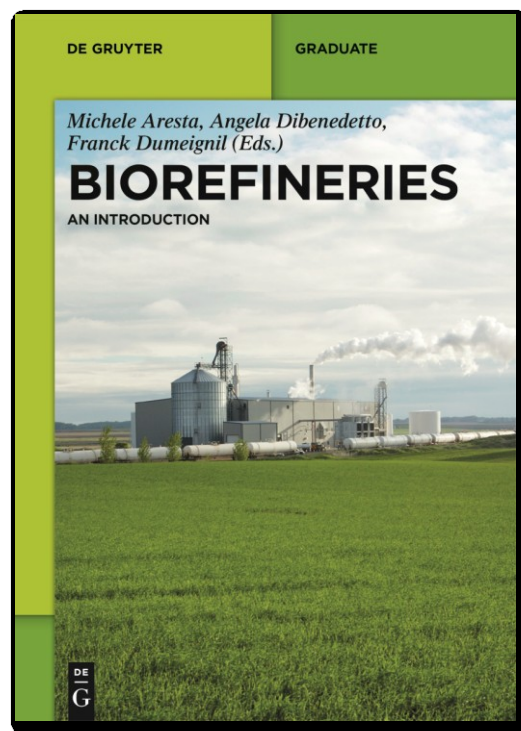
Prof. Michele Aresta, Chair of the Scientific Committee of CIRCC in Italy and holds the IMM Chair at the Department of Chemical and Biomolecular Engineering at NUS, Singapore. He is author of over 200 papers and Author or Editor of nine books.



Prof. Angela Dibenedetto, Associate Professor at the Department of Chemistry of the University of Bari (Italy) focused on carbon dioxide utilization by applying biorefinery concepts; and Director of the Interuniversity Consortium on Chemical Reactivity and Catalysis-CIRCC.



Prof. Franck Dumeignil, Deputy Director of the CNRS joint Unit of Catalysis and Chemistry of Solid (UCCS) of Lille University (France); project coordinator of several projects on chemistry, including the EuroBioRef Project for designing next generation biorefineries.



Biorefineries: An Introduction

ISBN 978-3-11-033153-0
e-ISBN 978-3-11-033158-5 (PDF)
978-3-11-038999-9 (EPUB)

Softcover price € 69,95 / *US\$ 98,-

eBook price € 69,95 / *US\$ 98,-

Date of Publication 08/2015

Language English

Readership Chemists, Chemical Engineers,
Biotechnologists, Materials Scientists,
Students.

For more information visit

<http://www.degruyter.com/books/978-3-11-033153-0>



DE GRUYTER

Genthiner Straße 13 · 10785 Berlin, Germany
T +49 (0)30.260 05-0 · F +49 (0)30.260 05-251 · info@degruyter.com · www.degruyter.com

*For orders placed in North America. Prices are subject to change. Prices do not include postage and handling. 08/15

