REVIEWS IN CHEMICAL ENGINEERING

EDITORS-IN-CHIEF

Dan Luss, Houston, TX Neima Brauner, Tel Aviv

EDITORIAL BOARD

David Agar, Dortmund Mark E. Davis, Pasadena, CA Lidietta Giorno, Rende J.B. Joshi, Mumbai Johannes Khinast, Graz Joseph Kost, Beer Sheva Jinghai Li, Beijing L. Gary Leal, Santa Barbara, CA Patrick L. Mills, Kingsville, TX Massimo Morbidelli, Zurich Ka Ming Ng, Hong Kong Michael Nikolaou, Houston, TX Avi Schroeder, Haifa John H. Seinfeld, Pasadena, CA E. Hugh Stitt, Cleveland Enrico Tronconi, Milan Constantinos G. Vayenas, Patras Peter Vekilov, Houston, TX Andrey N. Zagoruiko, Novosibirsk Edwin Zondervan, Bremen

DE GRUYTER

Please see the journal's homepage for Abstracting & Indexing Services information.

The publisher, together with the authors and editors, has taken great pains to ensure that all information presented in this work (programs, applications, amounts, dosages, etc.) reflects the standard of knowledge at the time of publication. Despite careful manuscript preparation and proof correction, errors can nevertheless occur. Authors, editors and publisher disclaim all responsibility for any errors or omissions or liability for the results obtained from use of the information, or parts thereof, contained in this work.

The citation of registered names, trade names, trademarks, etc. in this work does not imply, even in the absence of a specific statement, that such names are exempt from laws and regulations protecting trademarks etc. and therefore free for general use.

ISSN 0167-8299 · e-ISSN 2191-0235

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/revce.

RESPONSIBLE EDITOR(S)

Prof. Dan Luss, University of Houston, Department of Chemical and Biomolecular Engineering, S222 Engineering Building 1, 4800 Calhoun Ave., Houston, TX 77204-4004, USA, Tel.: +1 (713)743-4305, Email: dluss@uh.edu

Prof. Neima Brauner, Tel-Aviv University, Department of Fluid Mechanics and Heat Transfer, Faculty of Engineering, Ramat-Aviv, Tel-Aviv 69978, Israel, Tel.: +972-3-6408127, Email: brauner@tauex.tau.ac.il

PUBLISHER Walter de Gruyter GmbH, Berlin/Boston, Genthiner Straße 13, 10785 Berlin, Germany.

JOURNAL COORDINATOR Dr. Gunda Stöber, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany, Tel.: +49 (0)30 260 05-279, Email: rev.chem.eng.editorial@degruyter.com

ADVERTISEMENTS Email: anzeigen@degruyter.com

© 2025 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING TNQ Tech Private Limited, Chennai, India

PRINTING Franz X. Stückle Druck und Verlag e.K., Ettenheim

Questions about General Product Safety Regulation: productsafety@degruyterbrill.com



Contents

Reviews

Leila Samiee and Nejat Rahmanian

Solid biomass chain from production to utilization in

UK —— 101

WooSeok Lee, JaeHyeon Kim and Tai Gyu Lee

Certifications and testing methods for biodegradable
plastics —— 125

Jun Hui Law, Farihahusnah Hussin,
Muhammed Basheer Jasser and Mohamed Kheireddine Aroua
A systematic review on the application of machine
learning in carbon dioxide absorption in amine-related
solvents —— 147

Minyi Liu, Xintong You, Ying Li and Yi Yang

Critical review on development of methylene blue
degradation by wet catalytic methods —— 179