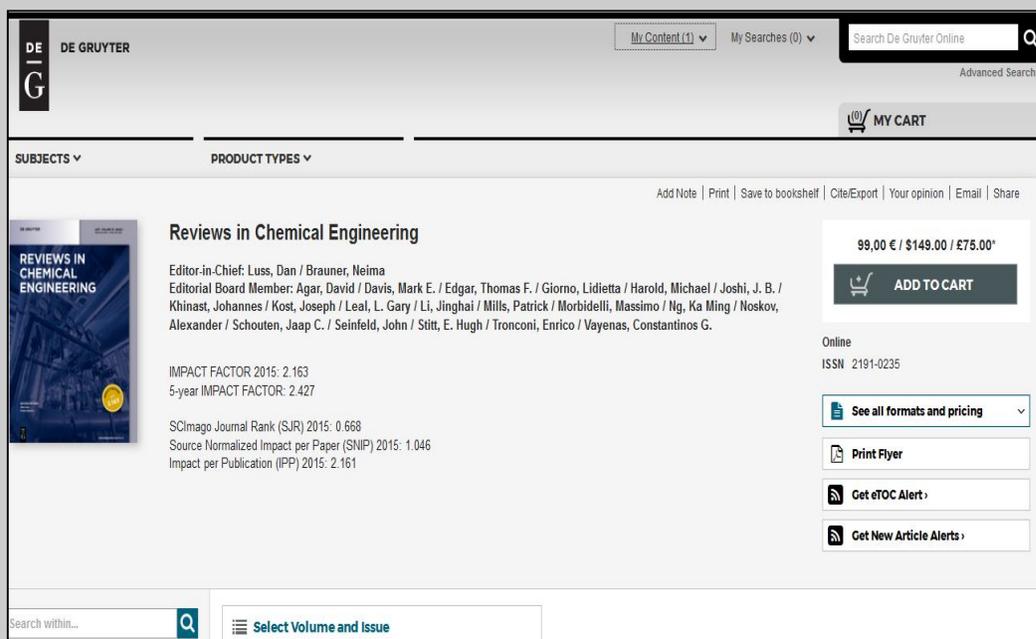
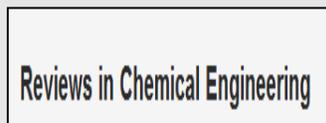


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Subject

Chemical Engineering – Reviews - Periodicals

Accessibility

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Language

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Walter de Gruyter GmbH

Brief History

Reviews in Chemical Engineering was previously published by Freund Publishing House Ltd.

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Reviews in Chemical Engineering publishes authoritative review articles on all aspects of the broad field of chemical engineering and applied chemistry. Its aim is to develop new insights and understanding and to promote interest and research activity in chemical engineering, as well as the application of new developments in these areas. The bimonthly journal publishes peer-reviewed articles by leading chemical engineers, applied scientists and mathematicians.

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Drop coalescence in technical liquid/liquid applications: a review on experimental techniques and modeling approaches

Johannes Kamp¹  / Jorn Villwock¹  / Matthias Kraume¹

¹ Chair of Chemical and Process Engineering, Technische Universität Berlin, Straße des 17. Juni 135, FH 6-1, 10623 Berlin, Germany

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Abstract

The coalescence phenomenon of drops in liquid/liquid systems is reviewed with particular focus on its technical relevance and application. Due to the complexity of coalescence, a comprehensive survey of the coalescence process and the numerous influencing factors is given. Subsequently, available experimental techniques with different levels of detail are summarized and compared. These techniques can be divided in simple settling tests for qualitative coalescence behavior investigations and gravity settler design, single-drop coalescence studies at flat interfaces as well as between droplets, and detailed film drainage analysis. To model the coalescence rate in liquid/liquid systems on a technical scale, the generic population balance framework is introduced. Additionally, different coalescence modeling approaches are reviewed with ascending

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Issue 3 (Jun 2016) , pp. 271-378
Issue 2 (Apr 2016) , pp. 149-270
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Issue 4 (Aug 2015) , pp. 303-412
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Remarks

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