



Research on Rheology in Food Processing

Guest Editors:

Prof. Dr. Antal Véha

Department of Food Engineering,
Faculty of Engineering, University
of Szeged, Moszkvai krt. 5-7., 6725
Szeged, Hungary

Prof. Dr. Diána Bánáti

Department of Food Engineering,
Faculty of Engineering, University
of Szeged, Moszkvai krt. 5-7., 6725
Szeged, Hungary

Dr. Balázs P. Szabó

Department of Food Engineering,
Faculty of Engineering, University
of Szeged, Moszkvai krt. 5-7., 6725
Szeged, Hungary

Deadline for manuscript
submissions:

closed (29 February 2024)

Message from the Guest Editors

Dear Colleagues,

An understanding of the basic elements of food rheology is essential for food production and certification. The tensions in food and their effects are important for practice and industry. Research in this field focuses on the properties of materials, including the rheological behaviour of elastic, viscous, viscoelastic, plastic, and Newtonian materials. Different models have been developed to understand them. For example, the Maxwell model, the Kelvin model, the Burgers model (creep and relaxation curves), and different viscometers (capillary and rotational viscometers) are used to measure them. Important parameters include the rate of deformation, knowledge of tensile and shear modulus, as well as the importance of temperature and time. Topics include, but are not limited to, the following:

- the rheological behaviour and testing of various food raw materials, as well as semi-finished and finished products;
- rheological modelling of foods;
- viscometric measurements;
- the application of rheology in the industrial environment.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Chemical*) / CiteScore - Q2 (*Chemical Engineering (miscellaneous)*)

Contact Us

Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/processes
processes@mdpi.com
[X@Processes_MDPI](https://twitter.com/Processes_MDPI)