

Special Issue

Cereal-Based Foods

Message from the Guest Editors

Leavening of bread and sourdough production are fermentation processes as well as the fermentation of yogurt and cheese. The benefits are seen in an improved food security by adding defined microorganisms to raw food material and the reduction of anti-nutritional factors. Food spoilage organisms are not able to grow in alcoholic or acidic environments that are created by adding desired microorganisms. Fermentation processes improve the nutritional values of the produced fermented foods regarding vitamins and digestibility. One of the most common and well-known fermented food around Europe is bread. However, every country has its own special foods, which are based on cereal fermentation. The fermented cereals vary from wheat to maize and oat to rice. During the fermentation processes structural and sensorial changes take place. Within this special issue various application of fermentation aspects for cereal based foods will be discussed, from advanced process measurements, process modelling to process optimization as well as improving the nutrition value of the final product.

Guest Editors

Dr. Viktoria Zettel

Department of Process Analytics and Cereal Science, Institute of Food Science and Biotechnology, University of Hohenheim, 70599 Stuttgart, Germany

Prof. Dr. Bernd Hitzmann

Department of Process Analytics and Cereal Science, Institute of Food Science and Biotechnology, University of Hohenheim, 70599 Stuttgart, Germany

Deadline for manuscript submissions

closed (31 March 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/77919

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)