

## Special Issue

# Micro- and Nano-Encapsulation of Volatile and Non-Volatile Bioactive Compounds, Their Controlled Release in Food Systems, and Targeted Delivery in the Digestive System

### Message from the Guest Editors

Volatile and non-volatile bioactive compounds play important roles in food safety and the sensory and nutritional properties of food. However, most bioactive compounds are unstable under harsh food processing conditions and in the human digestive system. Hence, encapsulation is mandatory to ensure their protection and effective application in various food systems. The efficient encapsulation is also crucial for control and targeted delivery, ensuring their efficient applications. There are synergistic influences from carrier agents and encapsulation techniques that impact the stability, bioavailability, and control release of bioactive compounds depends. The ultimate targeted benefit from a bioactive compound often requires careful consideration of encapsulation techniques, encapsulation conditions, and suitable carrier agents. Therefore, this Special Issue aims to feature high-quality reviews and original research articles on the micro- and nano-encapsulation of volatile and non-volatile compounds, encapsulation techniques, efficient carrier agents/systems, controlled release of micro- and nano-encapsulated bioactive compounds in foods or through food systems.

### Guest Editors

Dr. Md Saifullah

Dr. Quan V. Vuong

Dr. Mohammad Rezaul Islam Shishir

### Deadline for manuscript submissions

closed (31 July 2025)



## Foods

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## About the Journal

### Message from the Editor-in-Chief

*Foods* (ISSN 2304-8158) is an open access and peer reviewed scientific journal that publishes original articles, critical reviews, case reports, and short communications on food science. Articles are released monthly online, with unlimited free access. Currently, *Foods* has been indexed by the Science Citation Index Expanded (SCIE - Web of Science), PubMed, and Scopus. Our aim is to encourage scientists, researchers, and other food professionals to publish their experimental and theoretical results as much detail as possible. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global food science community.

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### Editor-in-Chief

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