# Special Issue

# Magnetic Resonance and Vibrational Spectroscopy and Imaging in Food Analysis

## Message from the Guest Editors

Over the past two decades, there have been remarkable changes in the way we analyze the physical, chemical, and sensory properties of fresh and processed food products with the progressive replacement of traditional wet analytical methods (destructive, laborious, time-consuming, requiring the use of hazardous chemicals) with new, fast, non-destructive physical methods where the analysis is performed in a single step, after validation, and without the use of chemical reagents. In this Special Issue, we will be accepting original papers and review articles dealing with the application of magnetic resonance and vibrational spectroscopy methods in food analysis performed in the laboratory, field, factory, warehouse and even supermarket. Applications of high and middle resolution nuclear magnetic resonance spectroscopy (NMR), low field NMR relaxometry and diffusometry, magnet resonance imaging (MRI), and electron spin or electron paramagnetic resonance (EPR), as well as applications of rotational vibrational spectroscopy, such as near (NIR) and mid infrared (MIR) and Raman spectroscopy and imaging applied to food science and technology are welcome.

## Guest Editors

Prof. Dr. Luiz Alberto Colnago
Prof. Dr. Luis E Rodriguez-Saona
Prof. Dr. Zeev Wiesman

## Deadline for manuscript submissions

closed (31 October 2022)

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# About the Journal

## Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

## Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).