

## Special Issue

# Microwave and Ultrasound Technologies in Chemical Reactions

### Message from the Guest Editor

The editorial board of *Molecules* (IF: 4.6, ISSN 1420-3049) invites you to submit an article or review to a Special Issue entitled "Microwave and Ultrasound Technologies in Chemical Reactions". The design and synthesis of novel molecules and functional materials are continually propelled by innovations in methodology. Among the most impactful advancements are microwave and ultrasound technologies, which provide unique energy-input mechanisms to drive chemical transformations. These non-conventional techniques have opened new avenues for enhancing reaction efficiency, selectivity and sustainability. The aim of this Special Issue is to collect original research papers and review articles highlighting recent advances in the application of microwave and/or ultrasound in chemical reactions. Articles should address progress on fundamental mechanisms and innovative applications across organic synthesis, materials science, polymer chemistry and process intensification. Studies focusing on the synergistic combination of these technologies or their role in promoting sustainable and green chemistry principles are particularly encouraged.

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### Guest Editor

Dr. Qinglong Xie  
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### Deadline for manuscript submissions

31 August 2026



## Molecules

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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.

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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

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