

Special Issue

Application and Molecular Mechanisms of Microwaves for Materials Processing

Message from the Guest Editor

The main aim of the Special Issue "Application and Molecular Mechanisms of Microwaves for Materials Processing" is to promote new theoretical, experimental, and computational research as well as new designs and developments of devices used to process, characterize, or develop new materials using a microwave field. The main topics of this Special Issue are: using microwaves for molecular material synthesis; microwave-induced effects on the molecular structure of materials; microwave-related physical chemistry and chemical physics; characteristics of plasmas created by microwave radiation; processing, characterization, or synthesis of materials using a microwave field. This Special Issue also focuses on employing advanced nanomaterials characterization techniques such as terahertz time-domain spectroscopy (THz-TDS) or other microwave characterization techniques, IR-VIS-UV optical emission spectroscopy (OES), photoacoustic spectroscopy (PAS), FT-IR or Raman spectroscopy, TEM, SEM, XRD, and XPS to understand the interaction between microwaves and matter.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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