

Tentative Outline

Special/Thematic Issue for the Journal Current Microwave Chemistry

Microwave Technology: Advancements and Applications in Chemistry, Environment, and Food Science

Guest Editor: Ha Manh Bui

Scope of the Thematic Issue:

Microwave technology has emerged as a transformative tool in various fields, offering unique opportunities for rapid, efficient, and clean processes. This thematic issue aims to encapsulate the latest research, innovative strategies, and progressive methodologies concerning the application of microwave technology in three main areas:

Chemistry: Highlighting the advancements in microwave-assisted synthesis, transformation reactions, extractions, and more.

Environment: Focusing on the utilization of microwave technology for environmental remediation, waste treatment, and materials recycling.

Food Science: Exploring the applications in food processing, sterilization, drying, and other related microwave-assisted procedures.

Keywords: Microwave-Assisted Synthesis, Dielectric Heating, Digestion, Soil Decontamination, Food Irradiation, Microwave Drying, Environmental Remediation, Non-thermal Effects.

Sub-topics:

- Microwave-assisted synthesis of organic and inorganic compounds
- Microwave-assisted polymerization and catalysis
- Microwave-assisted green chemistry and sustainability
- Microwave-assisted extraction and purification techniques
- Microwave-assisted nanomaterial synthesis
- Microwave-assisted degradation of environmental pollutants
- Microwave-assisted wastewater and sludge treatment
- Microwave-assisted soil remediation
- Microwave-assisted air pollution control
- Microwave-assisted food processing and preservation
- Circular Economy or life Cycle Assessment of Microwave process

Schedule:

- Thematic issue submission deadline: **31st December 2023**

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