

Special Issue

Microwave Heating and Chemistry

Message from the Guest Editors

Microwave heating enables material-selective and rapid heating and is expected as a key technology to achieve electrified and energy-efficient industrial processes.

This Special Issue on “Microwave Heating and Chemistry” aims to curate novel advances in the development and application of microwave heating to various chemical processes. Topics include, but are not limited to:

- Applications of microwaves to organic and inorganic chemical reactions, material processing, plasma processing, food processing, waste treatments, biomass conversion, etc.
- Design and engineering of microwave-assisted chemical processes including computational modeling.
- Development of new microwave devices and applicators for chemical processes (e.g. semiconductor generator, phase-controlled, modulated and pulsed microwaves).
- Evaluation of process and energy efficiency of microwave-assisted chemical processes.

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Deadline for manuscript submissions

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