Special Issue

New Advances in Microwave Technologies and Its Applications

Message from the Guest Editors

Microwave-assisted processes are currently undergoing investigation for applications in a number of fields where the advantages of microwave energy may lead to significant savings in energy consumption, process time, and environmental remediation. Design limitations dictated by the operation of magnetron microwave generators have to be taken into consideration when working with applicators/reactors based on such generators, especially in the context of continuous manufacturing, for which the industry is adopting rigorous and robust measures to minimize risks and avoid batch failures. As such, there is a necessity to explore new reactor concepts by emphasizing on dedicated designs that assure controllability and monitoring of the process conditions. The recent advent of high power microwave solid state generators as well as the opening of new opportunities for processing materials has the potential to address these issues especially at lab scale and implicitly, in resulting industrial applications.

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Editor-in-Chief

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