Special Issue

Advances in Ultrasound Chemistry

Message from the Guest Editors

Within the last few decades, ultrasound (US)-assisted reactions have become a widely used and powerful method in organic chemistry synthesis, offering some important advantages, such as significantly faster reaction times, milder conditions, increased yield and selectivity, lower costs, and simplicity in handling and processing. Moreover, in recent years, this method combined with other unconventional methods (microwave (MW)) seems to bring new advantages in terms of the synthetic approach. Taking into consideration the advantages offered by US irradiation in terms of energy consumption diminution, these reactions could be considered environmentally friendly. The aim of this Special Issue is to provide a platform to present the latest developments in US-assisted reactions in organic chemistry, focused on the synthesis of (but not only) biologically active heterocycle derivatives.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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