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Molecular Reactivity: Theoretical Study and Interpretation of Experimental Results

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Deadline for manuscript submissions: closed (30 April 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims at collecting papers investigating recent theoretical and experimental efforts exploiting new insights, methods, and techniques applied to the study of the microscopic dynamics of elementary chemical reactions. In particular, an overview of the most powerful calculation methods currently available will be given to the interested reader for the identification and characterization of the nature and strength of intermolecular interactions able to describe chemical reactivity: reactions between neutral species of interest in combustion, including ionmolecule reactions and those involving excited and radical species, from processes relevant for surface physics to the fundamentals of gas-phase stereodynamics, up to the physical chemistry of plasmas, planetary ionospheres, astrochemistry, as well as complex systems of biochemical interest.



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Message from the Editor-in-Chief

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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