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Organic-Fluorine Chemistry

Guest Editor:

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Message from the Guest Editor

Organofluorine chemistry describes the chemistry of the organofluorines, organic compounds that contain the carbon–fluorine bond. Fluorine and fluoro-functional groups are of crucial importance in the context of agrochemical, pharmaceutical, and material science, as the unique nature of fluorine strongly affects the chemical properties of the products. In the 21st century, novel technologies for organic reactions have emerged such as metal-catalyzed bond formation, bond-activation, metal- or organo-catalyzed photoredox reactions, and microflow-reactor/flow technology. These innovations have dramatically affected the situation of synthetic organofluorine chemistry. Thus, this Special Issue is dedicated to the state-of-the-art of organofluorine chemistry. The researches covered widely include, but are not limited to, fluorinations, trifluoromethylations, fluoro-functionalizations (SCF3, OCF3, SO2CF3, SF5, etc.), cross-couplings, asymmetric transformations, C-F bond activations and fundamental studies on reactivity of organofluorine compounds.

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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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