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Organofluorine Chemistry

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Message from the Guest Editors

Organofluorine chemistry, which represents an expanding field of research in drug design, has generated increasing interest in pharmaceutical research over the past decade. Although fluorinated organic molecules are virtually nonexistent in nature, the number of novel fluorine-containing substances as well as fluorinated drugs is ever increasing. It is expected that fluorinated small-molecular entities (azaheterocycles, functionalized alicycles, amino acids, nucleosides, etc.), as potential bioactive scaffolds or building blocks, will be of high importance in drug research over the coming years. Accordingly, their syntheses and the development of versatile synthetic methods for these types of derivatives have currently become a hot topic in synthetic organic and medicinal chemistry. Among the synthetic protocols towards fluorine-containing derivatives, either through nucleophilic or electrophilic late-stage fluorination or through the application of sophisticated fluorine-containing key elements, the access of various highly functionalized derivatives in view of selectivity, robustness, cost, efficiency, or applicability is still a significant challenge.



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Special Issue



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Message from the Editor-in-Chief

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