Special Issue

Radiofluorination Chemistry: New Concepts and Techniques

Message from the Guest Editors

The PET image as a biomarker is created by radiotracers labeled with positron emitters with a clear preference and dominance for fluorine-18 (t1/2=109.8 min, 18F). The synthesis of 18F-labeled radiotracers requires innovative radiochemistry for the rapid and effective incorporation of 18F under conditions compatible with the structural and functional integrity of the target compounds. This Special Issue will discuss new radiochemistry concepts and techniques for the preparation of 18F-labeled compounds with a special emphasis on radiofluorine-acceptor chemistry, umpolung, late-stage radio-fluorinations, and transition-metal-mediated cross-coupling reactions.

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As the premier open access journal dedicated to molecular chemistry, now in its 29th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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