Special Issue

Aromatic Heterocyclic Compounds: Synthesis, Reactivity and Applications

Message from the Guest Editor

Aromatic heterocyclic compounds represent a large place in organic chemistry. Considered as bioisosters of benzene, they are often used to replace the latter ring when exploring variations in biological or pharmaceutical activities. Some interesting activities can result from the presence of the heteroatom(s) and new binding sites that appear for docking on receptors. This class of compounds can be synthesized directly with different functions depending on the starting material. On the other hand, using the very special reactivity of the nucleus, functions can be introduced afterward by classical electrophilic reactions or metalation. Depending on the heterocycle used, even aromatic nucleophilic reactions are possible. This class of products finds application not only in the medicinal domain but also in polymer chemistry and in material science, among many others. Due to the number of possible aromatic heterocycles that exist, they will always remain an interesting and challenging field of organic chemistry.

Guest Editor

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As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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