Special Issue

Polycyclic Aromatic Hydrocarbons: Synthesis, Characterisation and Application

Message from the Guest Editor

Polycyclic aromatic hydrocarbons (PAHs) are organic molecules featuring a bidimensional backbone composed of *sp*2-C atoms. This particular chemical structure confers to PAHs unique properties in term of reactivity, optical/redox properties, self-assembly and (opto)-electronic device performances. Furthermore, with the rise of graphene-based materials, PAHs appear as key building-blocks for the "total synthesis" of monodispersed nanographenes. The continuous development of PAHs results in the synergy of advanced organic synthesis, spectroscopy, theoretical chemistry, supramolecular chemistry and electronic engineering. The present special issue "Polycyclic Aromatic Hydrocarbons: Synthesis, Characterizations and Applications" aims at covering all these aspects linked to these fascinating molecules.

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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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