Special Issue

Advances in Porphyrinoid-Based Functional Materials

Message from the Guest Editors

Porphyrins, corroles, phthalocyanines, and other tetrapyrrolic macrocycles are versatile molecular platforms with wide-ranging applications in fields such as environmental remediation, energy conversion, and biomedicine. Their strong absorption in the visible region, photochemical robustness, and adaptable coordination chemistry make them excellent candidates for incorporation into functional materials, including metal–organic frameworks (MOFs), covalent organic frameworks (COFs), carbon-based nanomaterials (graphene, carbon dots, carbon nanotubes), and polymeric systems. This Special Issue aims to gather original research and review articles focused on porphyrins and related macrocycles. Topics may include their synthesis, functionalization, photochemical behavior, and diverse applications in catalysis, energy, sensing, and medicine. Contributions addressing hybrid materials and sustainable technologies are welcome, but the scope is not limited to these areas. We invite authors to share both fundamental and applied studies that reflect the continued relevance and innovation of porphyrinoid-based systems in contemporary science.

Guest Editors

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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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