

Special Issue

Phthalocyanines and Their Analogues: Something Old, Something New

Message from the Guest Editor

Metal phthalocyanines were discovered in the early 20th century, but they still attract the attention of researchers due to their unique optical, electrochemical, catalytic, and semiconductor properties. Phthalocyanines and their analogues are widely used in various fields of science and technology. The development in recent decades of such new scientific directions as chemistry of nanostructured materials, supramolecular chemistry, molecular electronics, initiated the use of their hybrid materials with carbon nanomaterials and metal nanoparticles as active layers of various electronic devices. The main target of this Special Issue is to provide a broad survey of the application of metal phthalocyanines and their hybrid materials as dyes, chemical sensors, catalysts of chemical processes, materials for nonlinear optics, and sensitizers in photodynamic therapy of oncological diseases. Articles devoted to basic research of structure–property correlations in phthalocyanines and other porphyrin-type compounds are also welcome.

Guest Editor

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Message from the Editor-in-Chief

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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