Special Issue

Design, Synthesis and Applications of Photovoltaic Materials

Message from the Guest Editors

With extensive exploration and remarkable breakthroughs in developing new materials, organic photovoltaics (OPVs) have progressed toward realizing their potential as inexpensive, large-area, flexible, and lightweight solar energy conversion technologies. Several effective strategies for optimizing organic materials include using novel building blocks, tuning the energy level and gap, and side-chain engineering. To be among the frontiers contributing new methods for accelerating the exploration of optimized organic materials for photovoltaic application, we focus on the design and synthesis of organic materials in this Special Issue. Original research articles or reviews that deliver the fundamental properties of novel building blocks, structural optimization, screening of proper combination of chemical building blocks, and packing properties toward molecule engineering are included in this topic. We hope this Special Issue can provide a cutting-edge concept for pursuing next-generation organic materials for photovoltaic applications.

Guest Editors

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Message from the Editor-in-Chief

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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