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Design, Synthesis and Applications of Photovoltaic Materials

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Deadline for manuscript submissions: closed (31 January 2024)

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 nextgeneration organic materials for photovoltaic applications.



mdpi.com/si/163928







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Message from the Editor-in-Chief

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