Special Issue

Organic Solar Cells: Design, Synthesis, and Applications

Message from the Guest Editors

Organic solar cells (OSCs) are considered as a promising green energy technology with the advantages of lightweight, flexible, translucent, and easy to print and fabricate in large areas, which have attracted the interest of many research groups. In the past decades, researchers have made a lot of efforts to improve the performance of OSCs, such as designing and synthesizing of new nonfullerene materials, optimizing the device structure, and finally the power conversion efficiency (PCE) of OSCs now exceeds 19%. Furthermore, the lifetime in air, high temperature and UV environments has been gradually extended, and applications such as large area printing, indoor microelectronics, building integrated photovoltaic systems, space shuttle and color decoration have been developed, making the commercial value of OSCs prominent. This special issue aims to provide a broad survey of the latest advances in organic solar cells. Original research articles or reviews that discuss the design and synthesis of new functional materials, device structure optimization, degradation mechanism, stability improvement and various applications of organic solar cells are welcome.

Guest Editors

Dr. Lingpeng Yan

Institute of New Carbon Materials, Taiyuan University of Technology, Taiyuan 030024, China

Dr. Zhongqiang Wang

Key Laboratory of Interface Science and Engineering in Advanced Materials, Taiyuan University of Technology, Taiyuan 030024, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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