

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

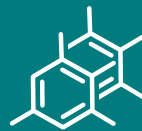
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