

Special Issue

Advances in Organic Materials for Energy, Optoelectronics, and Electronics

Message from the Guest Editors

Both organic (carbon-based) semiconductors and metal halide perovskite semiconductors (MHPs) have been the subject of worldwide research for applications in optoelectronics. Organic semiconductors can be directly designed and synthesized with optoelectronic properties in mind, including efficient and tunable light absorption, high photoluminescence quantum yield, and room-temperature excitonic effects. MHPs also have outstanding photovoltaic properties resulting from extended and balanced carrier diffusion, high defect tolerance, readily tunable band gaps, and self-assembly into quantum confined 2D structures. In both cases, the low materials cost makes such materials of direct interest in a range of optoelectronic applications, including as the active layer in solar cells, light-emitting diodes (LEDs), photodetectors, and lasers. This Special Issue will consider recent developments in the field of organic and halide perovskite semiconductors, focusing on applications in energy harvesting, light emission, and optoelectronics.

Guest Editors

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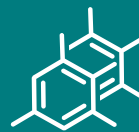
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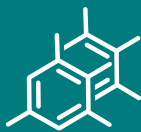


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