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Recent Advances in Organic Optoelectronics

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Message from the Guest Editors

Organic optoelectronic devices such as organic light-emitting devices (OLEDs), organic photovoltaic cells (OPVs), and organic thin-film transistors (OTFTs) have been widely used in recent decades. Owing to the flexibility and simple processing of organic materials, OLEDs have been recognized as one of the most successful full-color display technologies. For the same reason, OPVs are considered to be among the next-generation green energy technologies since the discovery of the photoelectronic properties of organic active molecules. Further, because of the unique photoselectivity and sensitivity of organic compounds, OTFTs have attracted extensive attention as photosensors and detectors.

Nonetheless, large-scale production and commercialization are still challenged by material instability, low efficiency, and size- and flexibility-induced performance uncertainty. It is thus urgent to strengthen the properties of organic optoelectronics via novel interface engineering and device engineering, together with in-depth understanding of materials selection and device physicals. Here, we would like to invite insightful perspectives on recent advances in organic optoelectronics.

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Message from the Editor-in-Chief

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