Special Issue

Organic Semiconductors: Materials, Microdevices, and Integrated Systems

Message from the Guest Editors

We are pleased to invite you to submit your recent research to this Special Issue. Organic semiconductors have emerged as a transformative class of materials in Materials Science and Electronics, enabling lightweight, flexible, and cost-effective electronic and optoelectronic. Comprising small molecules, polymers, and hybrid systems, these materials offer tunable electronic properties through molecular design, allowing precise control of charge transport, optical absorption, and emission. Over the past two decades, major advances in understanding charge transport, exciton dynamics, and interfacial effects have driven rapid progress in devices such as organic field-effect transistors, organic photovoltaics, and OLEDs. These technologies show strong potential for flexible displays, wearable electronics, bio-integrated devices, and large-area sensing. At the micro level, innovations in heterostructure design, interface engineering, and nanoscale patterning have significantly improved performance, stability, and lifetime. Moreover, integration with printed electronics, stretchable systems, and hybrid platforms is opening new pathways toward next-generation integrated devices.

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Editor-in-Chief

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