Special Issue

High-Performance Organic Solar Cells (OSCs) for a Green Future

Message from the Guest Editors

This Special Issue seeks to highlight cutting-edge research and development in the field of OSCs, encouraging contributions that focus on both material and device innovations. The scope encompasses a wide array of topics, including, but not limited to, the synthesis and design of novel organic semiconductors with enhanced optoelectronic properties, the optimization of donor–acceptor interfaces, and advances in morphology control. Submissions exploring the elaboration and fabrication techniques of organic solar devices, including solution-processing methods such as spin-coating, doctor-blading, and roll-to-roll printing, are highly encouraged. Additionally, this Special Issue seeks contributions addressing stability challenges, including encapsulation strategies and degradation mechanisms, as well as novel approaches to improving device performance through tandem structures or plasmonic enhancements. Studies on in-depth characterization of these devices, including advanced techniques for probing charge transport, recombination losses, and lifetime analysis, are equally welcomed.

Guest Editors

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