

Special Issue

Stability and Processing Strategies for Organic and Hybrid Semiconductors

Message from the Guest Editor

The Special Issue aims to gather high-quality contributions addressing the synthesis, processing, characterization, and stability enhancement of materials for optoelectronic and photovoltaic applications. This collection seeks to advance understanding of degradation mechanisms, propose mitigation strategies, and highlight scalable approaches for reliable device integration. Research areas may include (but are not limited to) the following:

- Green synthesis of organic and hybrid semiconductors
- Process optimization and advanced processing techniques and scalable fabrication methods
- Structural and compositional engineering for improved stability
- Degradation mechanisms and mitigation strategies under thermal, chemical, and photonic stress
- Interface engineering and defect passivation, including applications in Hole Transport Layers (HTL) and Self-Assembled Monolayers (SAM's)
- In situ and operando characterization of stability and performance
- Computational modeling and predictive design for reliability
- Application-driven studies in photovoltaics, LEDs, sensors, and flexible electronics
- Scale-up strategies and industrially relevant processing methodologies for organic and hybrid semiconductors

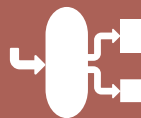
Guest Editor

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