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Functionalized Organic Thin Film Transistors for Sensing

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Message from the Guest Editors

Chemosensor-based organic thin film transistors or organic field effect transistors have the advantages of excellent processability using high-throughput printing techniques, mechanical robustness, tunable selectivity to various analytes, and compatibility to plastic or other flexible substrates. Therefore, chemosensors based on organic thin film transistors are particularly suitable for certain emerging applications, such as wearable electronics, electric skin, electric nose, and soft robotics.

This special issue aims to provide researchers with a platform to showcase the latest developments in the field of chemosensors based on organic thin film transistors. The topics can be but is not limited to:

- Functional organic (small molecules or polymers) semiconductors, gate dielectrics, and electrodes;
- New material processing and device fabrication techniques;
- New device design;
- Applications of chemosensors based on organic thin film transistors;
- Devices inducing chemical, biological sensors, phototransistors, thermal sensors, pressure sensors, water-gated sensors, electrochemical sensors, etc.

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Message from the Editorial Board

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