



Optoelectronic Applications of Semiconductor Materials

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Message from the Guest Editor

Dear Colleagues,

Semiconductor technologies that drive electronic appliances and devices, such as computers, tablets, TV displays, and cell phones, have been evolving rapidly. In this respect, organic semiconductors have been extensively studied in the last two decades due to their low processing requirements, versatility, flexibility, and environmentally friendly characteristics.

Today, OLED displays can be found everywhere, for example, in smartphones, TVs, smartwatches, monitors, cars, or digital cameras. However, as technology advances, the need for better OLED materials that help to improve the energy efficiency and resolution of OLED displays is growing. Academic research has demonstrated many improvements regarding the efficiency of blue, red, and green OLEDs using phosphorescent or thermally activated delayed (TADF) materials.

We invite colleagues whose work is primarily interdisciplinary and focused on materials and phenomena related to organic devices, such as organic light-emitting diodes, thin-film transistors, photovoltaic cells, etc., to contribute to this Special Issue. Full papers, communications, and reviews are all welcome.

Dr. Dalius Gudeika

Guest Editor





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Message from the Editor-in-Chief

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