

## Special Issue

# Optoelectronic Applications of Semiconductor Materials

### Message from the Guest Editor

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.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 June 2025)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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