



Semiconductor Devices and Sensors: From Theory to Applications

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Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on up-to-date results in semiconductor devices and sensors. The semiconductors are ubiquitous across our lives and, at the same time, sensors play an important role in advancing technology for various applications. Nanostructures enable access to new physical and chemical mechanisms, facilitating the development of new functionalities. The types of sensors that we are interested in for this Special Issue include electrochemical, photoelectrochemical, biological, and real-time sensors. The semiconductors can be elemental or any compound semiconductor applicable for electrocatalyst, (photo)electrochemical water splitting, CO₂ capturing, and green energy. Potential authors are invited to submit original research articles and review papers on the following topics:

- Novel semiconductor devices, circuits, and sensors;
- Wide bandgap materials and devices;
- Material research-oriented to semiconductor devices and sensors;
- CAD simulation models of semiconductor devices and sensors;
- Sensors: making our lives safer and more secure;
- Semiconductor devices: providing new ways to obtain clean energy.





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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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