

## Special Issue

# Molecular Opto-Electronic Sensing Devices and Techniques

### Message from the Guest Editors

With the recent developments in molecule-related electronics and photonics, the interplay among molecules, electrons and photons has attracted increasing attention in fields ranging from physics to biology to chemistry, leading to a new research direction termed “molecular opto-electronics”. Molecular opto-electronics is the study and application of molecule-integrated opto-electronic devices, or instruments that use such devices, for the detection, manipulation and application of light, electrons or chemical molecules. Efforts are underway to extend the applications of molecular opto-electronic devices to various sensing fields, offering new opportunities for biosensing, high-precision therapies, human-machine interfaces, etc. This Special Issue covers the latest research on molecular opto-electronic sensing techniques, including the design and fabrication of opto-electronic devices, instrumentation, measurement, postprocessing and various bio/chemical sensing applications. For more information, please visit [here](#).

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### Guest Editors

Dr. Longhua Tang

Dr. Shenglin Cai

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### Deadline for manuscript submissions

closed (15 April 2025)



## Sensors

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### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

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