Special Issue

Nanosensors: Sensing Principle, System and Application

Message from the Guest Editors

The recent trend in sensing technology development is to build from multidisciplinary aspects and brings a new horizon of collaborative studies from electronics, physics, chemistry, informatics, biosciences, and related fields especially in this era of nanotechnology. Topics within the Special Issue scope include:

- Sensing design – theory and simulation of sensors.
- Sensing structures and principles – micro- and nanofabrication, nanostructures, nanoparticles, nanomaterials, organic materials, nanodevices, metamaterials.
- Sensor platforms: optical, electrochemical, plasmonic, SERS, magnetoresistive, FET, HEMT sensors.
- Lab-on-a-chip: microfluidics, MEMS, micro-TAS, particle trapping, optical tweezers.
- Signal processing for sensors.
- System integration – wearable sensors, instrumentation and circuits for sensors.
- Low-cost and disposable sensors: organic sensor, lateral flow, miniaturized device, portable sensor.
- Sensing treatment.
- Sensors applications - chemical sensors, gas sensors, biosensors, environmental monitoring.

https://www.mdpi.com/journal/electronics/special_issues/Nanosensors_System_Application

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Deadline for manuscript submissions

closed (31 January 2022)

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).