



A Special Issue on

“Novel Semiconductor-Biochemical Sensors”

CALL FOR PAPERS

Since 2020, the global outbreak and continued evolution of the COVID-19 pandemic have brought the concepts of PCR, antigen-antibody, gene sequencing, and other biochemical testing into ordinary families. In this regard, the importance of novel semiconductor-biochemical sensors is becoming increasingly evident. These sensors deeply fuse the technical advantages of semiconductors and biochemistry, integrating interdisciplinary subjects such as molecular biology, nanomaterials, microfluidics, artificial intelligence, etc. With the advantages of fast speed, high sensitivity, high integration, easy mass manufacturing, the novel technologies are the "pioneer" of biomedical information acquisition and the "heart" of modern medical diagnostic equipment. Furthermore, those can achieve dynamic monitoring of animal/plant physiology and rapid detection of highly pathogenic pathogens, widely used in agriculture, aquaculture, animal agriculture, biosecurity and other fields. The effect is to comprehensively enhance the level of information and intelligence development of the industry.

With the fast development of novel semiconductor-biochemical sensors, we want to organize the special issue on the Journal of Semiconductors. Both review papers and research articles are welcome.

This special issue focuses but not limited to the following topics:

1. Rapid detection of COVID-19
2. Early and accurate detection of disease
3. Animal and plant pathogens detection
4. Wearable Biochemical Sensors

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Manuscript Submission:

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Submit your manuscripts directly to the listing guest editors via the e-mail addresses above. Or directly submit via the online submission address at <https://mc03.manuscriptcentral.com/jos-iop>.

Please notify well in advance for your intension to submit a research paper.

Key Timetable Dates:

Manuscript Submission Deadline: **Nov 25, 2022**

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