

Special Issue

Nanophotonics and Plasmonics for SARS-CoV-2 Biosensing

Message from the Guest Editors

SARS-CoV-2 is responsible for the ongoing outbreak of atypical pneumonia (COVID-2019) that has affected nearly 490 million people and killed over 6 million in more than 220 countries. The development of a highly sensitive and specific spectral method for the rapid detection of viruses, particularly SARS-CoV-2 strains, could reduce both the time and cost of detection, ensure earlier diagnosis, and save many lives. We are soliciting papers on nanomaterial-based surface-enhanced Raman scattering (SERS) spectroscopy, which has the capability for very low-level fingerprint identification of virus, antigen, and antibody via metasurfaces, plasmonic nanoparticles, and heterostructure material. Papers devoted to any other spectroscopes and photonic methods of SARS-CoV-2 sensing are most welcome.

Guest Editors

Prof. Dr. Andrey Sarychev

Prof. Dr. Grégory Barbillon

Prof. Dr. Ilya Kurochkin

Deadline for manuscript submissions

closed (25 August 2023)



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Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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