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Micro and Nano Optics for Advanced Sensing Technology

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Message from the Guest Editors

Dear Colleagues,

Detection of nanoscale objects with ultrahigh sensitivity is of critical importance in various fields including early-stage disease diagnosis, environmental monitoring, and process control of manufacturing. The state-of-the art optical sensors realize a detection limit down to single nanoparticle/molecule employing diversified schemes such as scattering interferometry, plasmonic structures, microcavity, and nanofiber sensors. In particular, microcavity sensors attract much attention for their highquality factors and small mode volumes enabling significant enhancement of light-matter interactions in confined space. Micro and nanofibers (MNFs) with subwavelength diameters offer engineerable waveguiding properties including optical confinement, fractional evanescent fields, and surface intensity, which is appealing for optical sensing on the micro and nano scales.

This Special Issue aims to attract original contributions in topics related to both experiment and theory regarding the measurement principles, detection techniques, and applications for micro and nano optical sensors and related technologies.











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Message from the Editor-in-Chief

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