



Micro/Nano Optical Sensors: Challenges and Opportunities

Guest Editors:

Dr. Yun-Lu Sun

Department of Optical Science
and Engineering, Fudan
University, Shanghai 200437,
China

Dr. Zhishan Hou

Department of Mechanical and
Electrical Engineering, Wenzhou
University, Wenzhou 325035,
China

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Message from the Guest Editors

Dear Colleagues,

Micro-/Nano-scale optical sensors and actuators have led to revolutionary changes across various applications. However, as the scope of their applications expands, a series of challenges have also emerged that necessitate thorough exploration.

On the technological front, micro-/nano-optical sensors and actuators must surmount challenges posed by size effects, photon noise, thermal noise, and other factors to achieve higher sensitivity and precision. Simultaneously, the complexity and consistency of fabrication processes require in-depth investigation to ensure the reliable manufacturing and operation of these devices.

This Special Issue aims to bring together researchers from around the world to share their latest research findings and discoveries in the field of micro-/nano-optical sensors. We welcome submissions of various types, including fundamental research, application explorations, fabrication techniques, signal processing, reviews, etc. Through this Special Issue, we hope to comprehensively understand the current challenges in the micro-/nano-optical sensor and actuator field and explore future opportunities.





Editor-in-Chief

Message from the Editor-in-Chief

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Micromachines Editorial Office
MDPI, St. Alban-Anlage 66
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