



## Microstructured Optical Sensors: Design, Fabrication and Applications

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

This Special Issue seeks to provide a comprehensive overview of the current state-of-the-art in microstructured optical sensors. We aim to cover the following key areas:

- Innovative designs of microstructured optical sensors.
- Theoretical modeling and simulation techniques.
- Optimization of sensor performance through design innovation.
- Advanced fabrication methods such as lithography, laser writing, and 3D printing.
- Integration of microstructured sensors with other technologies and platforms.
- Challenges and solutions in the fabrication process.
- Practical applications in various fields such as healthcare, environmental science, and industrial automation.
- Case studies demonstrating successful implementations of microstructured optical sensors.
- Comparative analysis of different sensor types and their performance in real-world scenarios.
- Emerging trends in the design and use of microstructured optical sensors.
- Prospective innovations that could shape the future of optical sensing technology.
- Interdisciplinary approaches and the integration of microstructured optical sensors with other technologies.

