

## Special Issue

# Theoretical Modeling and Computation for Nanophotonics

### Message from the Guest Editor

This Special Issue focuses on the theoretical computation of optical detection and imaging, technological equipment, big data processing, and their interdisciplinary applications in materials, biomedicine, the environment, and other fields. The research highlights are centered on high-throughput online analysis techniques for suspended particles and comprehensive polarization imaging characterization of scattering media. Key areas include the systematization of measurement instruments, optical modeling and simulation platforms for media and particles, and intelligent information extraction from optical big data. We kindly invite researchers worldwide to showcase their research results (in the forms of research articles, reviews, and comments) on this topic.

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### Guest Editor

Dr. Nan Zeng

Guangdong Research Center of Polarization Imaging and Measurement Engineering Technology, Shenzhen Key Laboratory for Minimal Invasive Medical Technologies, Institute of Biopharmaceutical and Health Engineering, Tsinghua Shenzhen International Graduate School, Tsinghua University, Shenzhen 518055, China

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### Deadline for manuscript submissions

20 November 2025



## Materials

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*Materials*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[materials@mdpi.com](mailto:materials@mdpi.com)

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### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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