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## **Optical Instrumentation**

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Deadline for manuscript submissions:

closed (31 March 2022)

## **Message from the Guest Editors**

This Issue is dedicated to recent advances in the field of basic optical instruments, functional devices, and the wideranging applications of optical instruments. Topics of interest include, but are not limited to, the following areas:

- Optical components and design methodology;
- New developments in light source modeling:
- Design tools for optical technologies;
- Electro-optical instruments and methods;
- Optical techniques in metrology;
- Optical characterization methods;
- Optical interferometric techniques;
- Imaging systems;
- Holography-based optical instrumentation;
- Digital holographic microscopy;
- Medical imaging techniques;
- Single-pixel imaging;
- Lensless computational imaging;
- Fourier ptychographic microscopy;
- Tomography;
- Optical coherence tomography;
- Particle image velocimetry;
- Cytometry applications;
- Biomedical applications based on optical techniques;
- Application of artificial intelligence algorithms in optical devices;
- Deep-learning-based optical instrumentation;
- Data processing and exploitation in optical instrumentation





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Phase retrieval (and generally inverse problems).