

Special Issue

3D Multi-Resolution System in Optics

Message from the Guest Editor

The fluorescence microscope, drawing on a myriad of fluorescent markers, has been widely utilized to help researchers access the inter- and intracellular information of living biological specimens. High temporal- and spatial-resolution optical platforms have been developed around the world aiming to resolve the dynamics of interested targets in various environments. To access complete information, optical platforms with multiresolution have been developed to not only acquire fast dynamics in microscale, but also to obtain the information in macroscale. This Special Issue invites manuscripts that introduce recent advances in “3D Multi-Resolution System in Optics”. All theoretical, numerical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Super-resolution microscopy and spectroscopy;
- 3D single-particle/single-molecule tracking microscopy;
- Single molecule microscopy;
- Advanced light sensitive materials;
- Progress in high-quality optics, e.g., gratings, coatings, crystals, etc;
- Artificial intelligence (AI) assisted imaging processing;
- Optical signal processing.

Guest Editor

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Deadline for manuscript submissions

closed (10 January 2024)



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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec,
CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Optics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 14.8 days after
submission; acceptance to publication is undertaken in 2.6
days (median values for papers published in this journal in
the first half of 2024).