

Special Issue

Recent Advances in Neutron Optics

Message from the Guest Editors

This Special Issue aims to present an overview of cutting-edge research, analyzing developments in neutron optics theory, results, and their applications. We welcome broad, visionary contributions in the form of short research, reports as well as a collections of reviews of recent accomplishments. We are excited to invite researchers to submit their contributions to this Special Issue. Topics include, but are not limited to, the following:

- **Neutron beam manipulation:** polarizers, monochromators, supermirrors, and neutron guides
- **Quantum neutron optics:** wave-particle duality, entanglement, and interferometry
- **Advanced instrumentation:** neutron lenses, resonators, and spin-control devices
- **Novel materials for optics:** metamaterials, nanostructured coatings, and magnetic heterostructures
- **Ultra-cold and very-cold neutron technologies**
- **Neutron imaging and tomography:** phase contrast, dark-field, and time-resolved techniques
- **Hybrid methods:** integration with X-ray, laser, or synchrotron techniques

Guest Editors

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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