Special Issue

Optomechanics: Science and Applications

Message from the Guest Editor

This Special Issue is devoted to publishing recent advancements in optomechanics, which investigates the interaction between photons and mechanical motions. There have been many remarkable developments in optomechanics recently. Quantum behaviors have been observed in different optomechanical systems, including nanofabricated resonators, optically levitated nanoparticles, and LIGO's 40-kilogram mirrors. Optomechanical systems have also found essential applications in acceleration and rotation sensing, precision measurements, quantum state transduction, and beyond. This Special Issue brings worldwide experts together to discuss the latest research in all fields of optomechanics. Topics include but are not limited to the following:

- Cavity optomechanics;
- Levitated optomechanics;
- Superfluid optomechanics;
- Optomechanical crystals;
- Optomechanics with 1D and 2D materials;
- Optomechanical transduction;
- Optomechanical sensing;
- Spin optomechanics;
- Hybrid optomechanical devices.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

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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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