Special Issue

Quantum Optoelectronics

Message from the Guest Editor

Quantum optoelectronics is an emerging field that aims to harness the power of quantum mechanics to develop new technologies for information processing, sensing, and communication. It employs the principles of quantum optics and solid-state physics to control and manipulate light and matter at the quantum level. This field has attracted a significant amount of attention in recent years due to its potential for improving the performance of classical devices and enabling new applications that were not possible before. This Special Issue on quantum optoelectronics aims to showcase the latest advances in this field, including theoretical and experimental research on quantum communication, quantum sensing, quantum computing, and quantum optics. The papers in this Special Issue cover a broad range of topics, from the fundamentals of quantum mechanics to the practical aspects of implementing quantum-optical devices.

Guest Editor

Dr. Xixiang Zhu

School of Electronic and Information Engineering, Beijing Jiaotong University, Beijing 100044, China

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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