

Special Issue

Nonlinear Optics in Perovskite Materials

Message from the Guest Editor

Perovskite materials exhibit excellent optical properties. The emergence of these materials has sparked widespread interest in the photonics community. Besides featuring an unprecedented performance for linear light-matter interactions, these materials have been widely recognized as promising nonlinear optical (NLO) materials. The scope of this Special Issue is to present the advances in the NLO properties of these materials, from both theoretical and experimental aspects. In addition, this topic also intends to address the practical applications based on the NLO characteristic of perovskite materials. Particular attention should be paid to the ultrafast dynamics, nonlinear refraction, nonlinear absorption, harmonic generation, stimulated emission, and lasers of the perovskite materials.

Guest Editor

Prof. Dr. Tingchao He

School of Physics and Electronics Engineering, Shenzhen University,
Shenzhen 518060, China

Deadline for manuscript submissions

closed (30 June 2023)



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/117231

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

[mdpi.com/journal/
photonics](https://mdpi.com/journal/photonics)





Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



[mdpi.com/journal/
photonics](https://mdpi.com/journal/photonics)



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.

Editor-in-Chief

Prof. Dr. Nelson Tansu

School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

Author Benefits

High Visibility:

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

Journal Rank:

CiteScore - Q2 (Instrumentation)

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 1.9 days (median values for papers published in this journal in the first half of 2025).