

# Special Issue

## Group IV Photonics: Advances and Applications

### Message from the Guest Editors

The aim of this Special Issue is to provide a comprehensive overview of the recent advances and applications of Group IV photonics. The scope of this issue will encompass the following topics: the development of Group IV photonic devices and materials; optoelectronic properties of Group IV devices and systems; the integration of Group IV materials in photonic devices; light sources on silicon; applications of Group IV photonics in various fields such as telecommunications, sensing, data storage, renewable energy, and biomedicine; programmable photonics; silicon photonics; foundry and manufacturing; integrated quantum photonics; and artificial intelligence chip.

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### Guest Editors

Prof. Dr. Alex Yasha Yi

Prof. Dr. Linjie Zhou

Prof. Dr. Daoxin Dai

Dr. Barry James Koch

Dr. Yan Cai

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### Deadline for manuscript submissions

closed (28 February 2025)



## Photonics

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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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### Editor-in-Chief

Prof. Dr. Nelson Tansu

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