

# 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

28 February 2025



## Photonics

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## About the Journal

### Message from the Editor-in-Chief

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#### Editor-in-Chief

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