

Special Issue

Electromagnetic Solutions for Thermal Management and Sustainability

Message from the Guest Editor

We are pleased to invite submissions to the Special Issue “Electromagnetic Solutions for Thermal Management and Sustainability.” This Special Issue aims to showcase cutting-edge research that leverages electromagnetic principles and materials for thermal control and sustainable energy applications. We seek to highlight interdisciplinary advances that connect fundamental physics with real-world solutions in energy, communications, and manufacturing, aligning with the broader mission of *Photonics*. Original research articles and reviews are welcome. Contributions may address, but are not limited to, the following themes:

- Passive radiative cooling and advanced metasurface coatings;
- Dynamic materials for thermal emission engineering;
- Near-field radiative heat transfer and thermal metasurfaces;
- Electromagnetic heating for sustainable industrial chemical processing;
- Electromagnetic energy harvesting and wireless power transfer.

Together, these topics illustrate how electromagnetic solutions can transform thermal management and energy utilization, paving the way toward a sustainable future. We look forward to receiving your contributions!

Guest Editor

Guest Editor

Dr. Chenghao Wan

Department of Electrical Engineering, Stanford University, Stanford, CA 94305, USA

Deadline for manuscript submissions

1 June 2026



Photonics

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 3.5



mdpi.com/si/255641

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).