Special Issue

Artificial Photonic Structures for Energy Harvesting and Management

Message from the Guest Editors

"Affordable and clean energy" has been set up as one of the 17 Sustainable Development Goals in the Envision 2030 agenda by the United Nations, urgently calling for efficient utilisation of energy in different forms. Articial photonic structures, including plasmonic structures, photonic crystals and metamaterials, offer an unparalleled platform for both energy harvesting and management. By virtue of the recent advancement in physics and nanotechnology, photonic structures with feature sizes comparable to or small than wavelengths have been achieved, endowing systems with unprecedented optical properties for a repertoire of energy-related applications, ranging from photovoltaics, thermophotovoltaics, photocatalysis, solar steam generation to light extraction from LEDs, radiative cooling, wireless powering and beyond. This Special Issue aims to provide an interdisciplinary platform for researchers from both Photonics and Energy Harvesting and Management, offering a platform to showcase your works, providing an overview of the recent developments and strategies covering topics including (but not limited to) those stated above.

Guest Editors

Prof. Dr. Kok Wai Cheah

Dr. Changxu Liu

Prof. Dr. Che Ting Chan

Prof. Dr. Shuang Zhang

Dr. Laura Pilozzi

Deadline for manuscript submissions

closed (15 November 2022)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/118903

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

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

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).