

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. Artificial 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

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Deadline for manuscript submissions

closed (15 November 2022)



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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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