Special Issue

Next-Generation Solar Energy Harvesting, Lighting, and Photovoltaic Innovations

Message from the Guest Editor

This Special Issue aims at gathering high-quality research and review articles that explore novel materials, device architectures, and system integration strategies for advanced solar energy applications. The topic aligns closely with the journal's scope covering renewable energy materials, photonics, and sustainable engineering, with an emphasis on innovative approaches that improve performance and scalability. We welcome contributions that address both fundamental and applied challenges in the field, with the goal of compiling a collection of articles that reflect the current state and future directions of solar technology. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Perovskite and organic solar cells;
- Tandem and multi-junction photovoltaic configurations;
- Luminescent solar concentrators (LSCs);
- Photovoltaic windows and building-integrated systems;
- Agrivoltaics;
- Novel light-management materials and interfaces.

Guest Editor

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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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