Special Issue

Latest Papers Related to OWPT 2024–2025 on the Topics of Devices, Components and Systems

Message from the Guest Editors

Effective power transmission is essential for equipment operation, yet traditional approaches like wiring and batteries present challenges. Light-based methods, like Optical Wireless Power Transmission (OWPT) and Power over Fiber (PoF), show promise. OWPT excels in long-range coverage and minimal interference, while PoF utilizes optical fibers for reliable communication and surge protection. These technologies find applications in various sectors, from IoT devices to industrial tools, electric vehicles, drones, and infrastructure in challenging environments. While the core technology is established, practical implementations are currently limited, necessitating ongoing research to enable diverse applications. Emphasizing benefits, identifying obstacles, and exploring innovative aspects in materials, devices, systems, and safety standards is crucial for driving societal transformation. To highlight the latest research findings, we are launching a Special Issue seeking contributions on light sources, light-receiving devices, integration, systems, and applications in optical power transmission, encompassing a broad spectrum of disciplines.

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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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