PhotoniX Life

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Editorial

Welcome to *PhotoniX Life*: A new home for high-impact biophotonics research

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We are very pleased to introduce the inaugural issue of *PhotoniX Life*, an international, open-access journal proudly sponsored by the Chinese Society for Optical Engineering (CSOE). This journal is conceived as a platform for the rapid dissemination of groundbreaking research and insightful reviews at the intersection of photonics and the life sciences. We aim to illuminate how light-based technologies—drawing upon advances in materials science, physics, chemistry, and nanotechnology—serve as a transformative bridge to address fundamental and applied challenges in biology and medicine.

Photonics has evolved into a universal language of innovation. Whether advancing our understanding of neural circuits via optogenetics or pioneering bioinspired quantum dots for precision medicine, the interplay between light and life is generating unprecedented opportunities. At *PhotoniX Life*, we embrace this rich diversity. Our editorial scope encompasses the full spectrum of photonic-based research, from fundamental studies of light-matter interactions to the development of novel optical technologies and extends to the application of photonic tools in addressing critical challenges in healthcare, environmental sustainability, and beyond.

A key pillar of our vision is geographical inclusivity. With an editorial team and advisory board representing researchers from Asia, Europe, the Americas, and other parts of the world, we are committed to amplifying voices from every corner of the scientific community. By ensuring that our content is accessible to all through an open-access format, we empower educators, policy-makers, and industry leaders alike to engage with and benefit from the latest scientific insights.

The content of this first issue exemplifies our dedication to interdisciplinary excellence. It features pioneering studies on novel optical sensors for real-time health monitoring, innovative approaches in photonic therapeutics, and advanced nanophotonic platforms for single-molecule detection. In addition, readers will find compelling commentaries on bridging laboratory breakthroughs with scalable technologies, complemented by industry perspectives on emerging trends in biophotonics.

As the founding Editors-in-Chief, we are deeply grateful for the enthusiastic support from the volunteers, the staff of CSOE, and the broader optics community. Launching a journal with such ambitious goals is undoubtedly a challenge. Nevertheless, we are greatly encouraged by the outstanding articles already submitted and the insightful reviews obtained by our Associate Editors from dedicated referees.

Looking ahead, *PhotoniX Life* will continue to explore high-impact themes through special issues and "Spotlight" supplements, focusing on areas such as photonic therapeutics, smart optical materials, and the convergence of photonics with artificial intelligence. We warmly invite researchers, readers, and industry partners to join us on this journey. Submit your most transformative work, participate in robust scientific dialogue, and help us harness the power of light to push the boundaries of discovery.

Turn the page to explore our first issue and witness firsthand how photons are redefining the landscape of life science. The future is bright; let us discover it together.

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