



## Advanced LED Solid-State Lighting Optics

Guest Editors:

**Prof. Dr. Ching-Cherng Sun**

Department of Optics and  
Photonics, National Central  
University Taiwan, Chung-Li,  
Taiwan

**Dr. Shih-Hsin Ma**

Department of Photonics, Feng  
Chia University, Taichung 407,  
Taiwan

Deadline for manuscript  
submissions:

**closed (20 December 2019)**

### Message from the Guest Editors

We invite investigators to submit papers, which discuss the novel optical design in enhancing lighting efficiency, in more uniform illumination pattern, in higher sharpness for special lighting, in higher signal-to-noise ratio for communication, in more functions for new applications, etc.

The potential topics include, but not limited to:

1. Novel optical structure in enhancing light extraction;
2. Novel design in LED packaging for better performance;
3. Phosphor technology for higher color rendering or stability;
4. New approach on LED light source modeling;
5. Novel design in secondary optics;
6. Optical design for anti-glare;
7. Outdoor lighting, indoor lighting, or auto forward lighting;
8. White light pumped by laser diodes;
9. Optical design for special lighting;
10. Optical scheme in enhancing free space communication with LED lighting.





*crystals*



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Alessandra Toncelli**

Department of Physics, University  
of Pisa, 56126 Pisa, PI, Italy

## Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [Inspec](#), [CAPus](#) / [SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

---

*Crystals* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/crystals](http://mdpi.com/journal/crystals)  
[crystals@mdpi.com](mailto:crystals@mdpi.com)  
[X@Crystals\\_MDPI](https://twitter.com/Crystals_MDPI)