

## Special Issue

# Optical Materials for White Light Emitting Diodes (WLEDs)

### Message from the Guest Editors

The efficiency of blue and near-UV LED chips are ever increasing and it is only a matter of time until solid state light sources replace the conventional incandescent, halogen and even fluorescent light bulbs. Thus the demand for high-efficiency phosphors that can be excited in the blue or near-UV spectral region is very high. The topics of this Special Issue include, but are not limited to, the following:

- Novel synthesis techniques
- Efficiency improvement
- Methods of quantum efficiency measurements
- Particle shape optimization
- Thermal quenching improvement
- Phosphor ceramics
- Garnet phosphors
- Silicate phosphors
- Oxide-based phosphors
- Sulfides
- Oxynitrides and nitrides
- Phosphors for near-UV LEDs
- Single-phase, white-light-emitting phosphors
- Blue/cyan-emitting phosphors
- Green/yellow-emitting phosphors
- Orange/red-emitting phosphors

We would like to take this opportunity to invite you to submit your manuscripts to the Special Issue “Optical Materials for White-Light-Emitting Diodes (WLEDs)” of *Materials* in the form of full research article, short communication or a review.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 December 2021)



## Materials

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## About the Journal

### Message from the Editorial Board

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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