

Optical Properties of Sol-Gel Derived Materials and Thin Film Structures

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Deadline for manuscript submissions:

closed (30 November 2023)

Message from the Guest Editors

Low-cost sol-gel technology receives significant attention for photonics applications. This special issue invites manuscripts that introduce the recent advances in sol-gel-derived optical materials and microstructures. Topics include, but are not limited to the following:

- Luminescence of lanthanides and transition metals from sol-gel-derived powders and thin films
- Materials and coatings with upconversion luminescence for solar cells
- Enhanced luminescence of lanthanides from microcavities: Stokes and anti-Stokes (upconversion luminescence)
- X-ray convertors and scintillators
- Photonic band gap materials and sol-gel derived materials in porous matrices.
- Optical filters
- Optical properties of conductive transparent coatings
- Sol-gel-derived planar waveguides
- Optical properties of sol-gel-derived glasses
- Porous materials for photocatalysis
- Optical sensors

