

Special Issue

Structural and Physical Properties of Liquid Crystals

Message from the Guest Editors

Liquid crystals (LCs) are a fascinating class of soft matter that exhibit features of fluidity and long-range order. Considering the outstanding importance of the development of new state-of-the-art liquid crystals, this Special Issue welcomes the submission of original research manuscripts, reviews embracing aspects of LC science and technology, and theoretical and experimental investigations ranging from mesogen design and synthesis to applications. Potential topics include, but are not restricted to:

- Design, synthesis and characterization of rod-like (calamitic), bent-core and discotic LCs
- Functional liquid-crystalline polymers and supramolecular LCs
- LC display science and technologies, optical alignment, switching materials, optical information processing and devices
- Liquid crystalline properties beyond the biological applications
- Liquid-crystalline sensitizers for singlet oxygen formation and solar cells applications
- Investigation of triplet–triplet annihilation (TTA) in liquid crystals
- Liquid-crystalline thermally activated delayed fluorescence (TADF) emitters
- Environmental issues related to disposal of materials used in organic devices

Guest Editors

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Deadline for manuscript submissions

closed (20 September 2025)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 7.0
Indexed in PubMed



mdpi.com/si/192166

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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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