Special Issue

Advances in Liquid Crystals

Message from the Guest Editor

In the 21st century, the interest in liquid crystalline materials and their applications has shown no signs of abatement, and much progress has been achieved in the development of novel materials, new applications of liquid crystalline materials, and new theoretical insights. Of particular interest is the recent discovery of polar nematic phases which display a giant ferroelectric response. This Special Issue aims to highlight some of the recent advances in liquid crystals which have taken place in the early part of this century, such as the discovery of new mesophases, new materials classes, functional liquid crystalline materials, modulated liquid crystalline phases, mesophases in biological systems, LC polymers and elastomers, nanoparticle dispersions, guest–host liquid crystal systems and devices, active nematics and collective motion, chromonic and lyotropic systems, liquid crystalline actuators, liquid crystalline photonic materials, and liquid crystalline organic electronics.

Guest Editor

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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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