

Special Issue

Physical Properties of Liquid Crystalline Materials

Message from the Guest Editor

Liquid crystals (LCs) are well known to practically anybody in relation to LC Displays, while there are involved in many other applications on a much smaller scale. “Liquid crystals” is the general term for a large variety of anisotropic phases in the temperature range between fluids and crystals. These phases have a very rich range of physical properties, which have been actively studied for the last half century and published in vast number of original papers as well as in books/reviews. Nevertheless, liquid crystals never cease to amaze the Physical Society with their new phases and physical properties. This is especially true for the last couple of decades, based on the progress in LC colloids and biosystems. One of the most impressive findings was discovery of different polar/ferroelectric phases in nonchiral systems such as bent-core molecules, twist-bend nematic dimers and, finally, the long-awaited polar nematics. These recent developments have given rise to the need for a Special Issue that will cover the physical properties of new LC systems.

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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