

Special Issue

Liquid Crystals and Other Partially Disordered Molecular Systems

Message from the Guest Editor

Liquid crystals are materials that possess both the characteristics of liquids and solids due to their partially ordered molecular structure. The molecules in liquid crystals exhibit some degree of alignment while maintaining a certain level of disorder. This unique arrangement gives rise to intriguing physical properties that differ from ordinary liquids or solids. Liquid crystals have diverse physical properties that make them suitable for various applications. One of their most well-known applications is liquid crystal displays (LCDs), which utilize the optical properties of liquid crystals to produce visual representations. The alignment of liquid crystal molecules can be controlled by applying electric fields, allowing for the manipulation of light transmission through the display.

In addition to liquid crystals, there are other molecular systems that exhibit partial disorder, such as liquid crystal polymers, block copolymers, and colloidal suspensions. These partially disordered materials have attracted attention due to their potential for achieving desired properties through manipulation of molecular arrangement.

Guest Editor

Dr. Dorota Dardas

Institute of Molecular Physics, Polish Academy of Sciences, 60-179 Poznań, Poland

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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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1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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