



an Open Access Journal by MDPI

Advances in Liquid Crystal Nanomaterials

Guest Editors:

Dr. Natália Tomašovičová

Institute of Experimental Physics,
Slovak Academy of Sciences,
Watsonova 47, 040 01 Košice,
Slovakia

Dr. Sergii Burylov

Institute of Transport Systems
and Technologies, Ukrainian
National Academy of Sciences,
Pisargevskogo St. 5, 49005
Dnipro, Ukraine

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

Self-assembling organic materials showing liquid crystalline behaviour represent soft matter with unique properties. They are extremely promising anisotropic media for the design of nanocomposite systems. The main motivation for introducing nanoparticles in liquid crystalline matrices is usually to improve their optical and electro-optical or magneto-optical properties as well as to create new materials. The dispersion of guest particles in a liquid crystalline medium has been an active area of research for four decades. There has been a continuously growing interest in this area of research over the last 10 years, and a number of interesting phenomena have been demonstrated.

This Special Issue is a timely approach to survey the recent progress in the field of liquid crystal-based nanomaterials and their applications. As such, this Special Issue offers a unique insight into what has been achieved and what remains to be explored in liquid crystal nanomaterials.

Dr. Natália Tomašovičová

Dr. Sergii Burylov

Guest Editors



mdpi.com/si/24060



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Maryam Tabrizian

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)