Special Issue

Materials with Liquid–Crystalline Properties—Structure, Stimuli Responsiveness and Functionality

Message from the Guest Editor

Liquid crystals combine their fluid nature with either orientational and/or positional long-range order. This unique combination allows for stimuli-responsive properties; thus, the materials that can reply to external forces, including electric, magnetic or mechanical fields or light. The materials emerge from inorganic, organic or hybrid structures, and they may consist of small, low-molar-mass structures, colloidal particles, supra- or supermolecular assemblies and polymers. Liquid crystal properties and liquid-crystal-derived structures are omnipresent in nature, and play an important part in soft matter science. This Special Issue presents new directions in the field of liquid-crystal-derived materials, comprising advances in liquid crystal design, photonic materials, semiconductors, polar structures and their applications, soft robotics and liquid crystal chromophores and fluorophores with potential usage in sensing applications.

Guest Editor

Prof. Dr. Matthias Lehmann

Institute for Organic Chemistry, University of Würzburg, Am Hubland, 97074 Würzburg, Germany

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

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Message from the Editor-in-Chief

Chemistry is a broad science and in *Chemistry* we hope to showcase the excellence of this fundamental discipline. Open Access publishing allows scientists to publish their research in a way that reaches the widest possible audience. In *Chemistry* we aspire to build a genuinely transdisciplinary culture in which communication of results between scientists active in different areas and between scientists and the broader public highlights the benefits that chemistry can bring to society. We encourage papers on all aspects of chemistry ranging from astrochemistry to zoochemistry, with everything in between. We also very strongly welcome inter- and multidisciplinary papers which expand the subject beyond its present horizons. We also welcome themed issues collecting reviews and state-of-the-art papers in topical areas of chemical science.

Editor-in-Chief

Prof. Dr. Igor Alabugin
Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL 32306, USA

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