Special Issue

Polymer-Dispersed Liquid Crystals and Their Applications

Message from the Guest Editor

Polymer-dispersed liquid crystals (PDLCs) are the result of the optimization of photopolymer fabrication techniques. These materials exhibit an outstanding versatility, and new possibilities can be exploited by including dispersed liquid crystal (LC) molecules into the classic formulations. The orientation of the liquid crystal molecules can be arranged by the application of an external electric field, thus changing the optical properties of the whole device, mainly by modulating the refractive index of the LC to match or mismatch that of the surrounding medium. This switchable feature of the PDLCs makes them very attractive for a great number of applications. This Special Issue of *Crystals*, entitled "Polymer-Dispersed Liquid Crystals and Their Applications" welcomes articles addressing, among others, the deployment of new techniques the fabrication of PDLCs and the report of new applications or improvements in applications of PDLCs. **Keywords:** polymers; liquid crystals; switchable devices; diffractive elements; optical elements **Discount:** 200 CHF (If you need more, please contact aries. gan@mdpi.com)

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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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