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Nanoparticles and Liquid Crystals Dispersed Nanoparticles

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Message from the Guest Editors

Recently, liquid crystals are more and more applications in other electro-optic or magneto-optic devices, in environmental and other sciences such as biology, food science or the last but not the least, material science. Here we can notice that nanomaterials are gathering more interest each day due to their potential use in various fields from engineering to medicine and environmental sciences. Since their discovery, it has been well proven that their properties are significantly different from those of bulk material from the same substance. The biggest problems occurring when trying to determine nanoparticle parameters are dispersion and orientation. If the dispersion can be easily achieved by chemical methods such as coatings and functionalization, the orientation problem remains, and it is crucial for physical properties. Liquid crystals may be a good host for well-dispersed and organized nanoparticles suitable for any life science application. The present Special Issue on “Liquid Crystal, Nanoparticles and Liquid crystal Based Nanomaterials” may become a complex source of information for young and experienced scientists in the field.

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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.

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