Special Issue

Structure and Properties of Organic Dyes in Solid State

Message from the Guest Editor

According to the literature, organic dyes and pigments show color because they (i) have at least one chromophore, (ii) possess a conjugated system with resonance of electrons, and (iii) absorb radiation in the visible spectrum; when these characteristics are lacking from the molecular structure, the color is lost.

Most of the physical and chemical properties of dyes, the physical aspects of their preparation, their photochemical or biological properties, and the relationship between color and chemical constitution cannot be fully understood if their crystal structure is not elucidated.

Recently ,organic dyes have been discovered as promising semiconducting materials, thanks to the formation of interactions between dyes and appropriate different semiconducting substrates.

This Special Issue of Crystals is designed as a collection of papers covering the broad field of investigation of the structure and properties of organic dyes in the solid state that appear as such or crystallized or co-crystallized with any types of substrates.

Guest Editor

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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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