Special Issue

Conductive Polymers: from Dye Sensitized Solar Cells to Neural Recording

Message from the Guest Editors

Conductive polymers (CPs) have recently drawn widespread research attention owing to their intrinsic properties and stability compared to extrinsically conductive polymers, which are blends of electrically conductive additives (metallic materials or carbon materials) with thermoplastic polymers. CPs can be prepared either through electrochemical deposition or by chemical synthesis. The enhancement of electrical conductivity in ICPs following an increase in their crystallinity has been widely documented. However, due to the rapid development of the ICP sector, a more detailed and continuous investigation is imperative. For instance, thermoelectric and mechanical properties of ICPs can be improved by tuning the degree of crystallinity. Further, electrochemical and other key properties of ICPs are known to be dependent on the phase micro-structure. The aim of this Special Issue of Crystals is to collect and publish papers that emphasize the important role of conductive polymers.

Guest Editors

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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.

Editor-in-Chief

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