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Eutectic Solvents

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Message from the Guest Editors

Eutectic molecular liquids (EMLs) as functional liquid media have attracted great attention for their extreme broad range of applications granted from their special and tunable properties. Thousands of research projects have been successively launched, revolutionizing, among others such areas, green chemistry formulations, organic synthesis and catalysis, alternative media for metal processing, recovery of natural products, effective dissolution media, cosmetic and pharmaceutical formulations, biorenewable polymers processing, energy storage and energy transportation, nanofluids, nanomaterials preparation, supercapacitors, and luminescent materials or electrochromic devices.

This variety of applications originated from a diversity of possible formulations encompassing simple molecular eutectic systems, eutectic metal and organic alloys, ionic liquids (ILs), deep eutectic solvents (DES) and also natural deep eutectic solvents (NADES). Apart from experimental studies, new theoretical issues have emerged around in silico modeling, including quantum chemistry approaches, molecular dynamic studies, and linear and nonlinear modeling, including QSPR and neural networks.

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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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