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Eutectic Solvents

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Deadline for manuscript submissions: closed (30 September 2020)

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 transportation. nanofluids. energy 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.



Specialsue





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Message from the Editor-in-Chief

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