

Ionic Liquids in Lipid Processing and Analysis

Opportunities and Challenges

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Ionic Liquids in Lipid Processing and Analysis: Opportunities and Challenges serves as a reference for those interested in state-of-the-art research on the science and technology of ionic liquids (ILs), particularly in relation to lipids processing and analysis. Topics include a review of the chemistry and physics of ILs as well as a quantitative understanding of structure-activity relationships at the molecular level. Further, chapter authors examine the molecular basis of the toxicity of ILs, the prediction of the properties of ILs, and the rationale and steps toward a priori design of ionic liquids for task-defined applications.

Ionic Liquids in Lipid Processing and Analysis: Opportunities and Challenges describes emerging research in developing lipid-inspired ILs and their prospective use in drug formulation. Among the highlights are the latest advances in IL-mediated biocatalysis and biotransformation, along with lipase production, purification, and activation.

Key Features

- Reviews the state-of-the-art progress applications of ionic liquids in lipid processing and relevant areas from a variety of perspectives
- Summarizes the latest advances in the measurement of the physical/chemical properties of ionic liquids and available database of thermodynamic properties
- Presents the tremendous opportunity and challenges of ionic liquids as a newly emerging technology for lipids processing area



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