

# Ionic Liquids in Chemical Analysis (Analytical Chemistry)

Mihkel Koel



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An Overview of a Rapidly Expanding Area in Chemistry

Exploring the future in chemical analysis research, **Ionic Liquids in Chemical Analysis** focuses on materials that promise entirely new ways to perform solution chemistry. It provides a broad overview of the applications of ionic liquids in various areas of analytical chemistry, including separation science, spectroscopy, mass spectrometry, and sensors.

#### With Contributions from a Team of Internationally Recognized Experts

After reviewing the properties and structure of ionic liquids, leading specialists explore the role of these materials in optical, electrochemical, and biochemical sensor technology. The book then examines ionic liquids in gas, liquid, and countercurrent chromatography, along with their use as electrolyte additives in capillary electrophoresis. It also discusses gas solubilities and measurement techniques, liquid-liquid extraction, and the separation of metal ions. The final chapters cover molecular, Raman, nuclear magnetic resonance, and mass spectroscopies.

#### Encourages Readers to Discover New Ideas and Breakthroughs in the Field

By showing how ionic liquids can improve measurement and reduce the amount of environmental waste, this volume confirms the staying power of these materials in the years to come.

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