Ionic Liquids further UnCOILed: Critical Expert Overviews
Natalia V. Plechkova (Editor), Kenneth R. Seddon (Editor)

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**DESCRIPTION**

Critical overviews from the front line of ionic liquids research

*Ionic Liquids Further UnCOILed: Critical Expert Overviews* continues the discussion of new processes and developments in ionic liquid technology introduced in the first volume. Written by an international group of key academic and industrial chemists, this next book in the series includes eleven overviews of specific areas of ionic liquid chemistry including:

- Physicochemical properties of ionic liquids
- A patent survey
- Ionic liquid membrane technology
- Engineering simulations
- Molecular simulations

The goal of this volume is to provide expert overviews that range from applied to theoretical, synthetic to analytical, and biotechnological to electrochemical, while also offering consistent abbreviations of ionic liquids throughout the text.

The value of *Ionic Liquids Further UnCOILed: Critical Expert Overviews* lies in the authors’ expertise and their willingness to share it with the reader. Included in the book is insight into typical problems related to experimental techniques, selection of liquids, and
variability of data—all of which were overseen by Professor Ken Seddon, one of the book’s editors and a world leader in ionic liquids. This book is a must read for R&D chemists in industrial, governmental, and academic laboratories, and for commercial developers of environmentally sustainable processes. It offers insight and appreciation for the direction in which the field is going, while also highlighting the best published works available, making it equally valuable to new and experienced chemists alike.

ABOUT THE AUTHOR

D R. NATALIA V. PLECHKOVA attained her BSc and MSc in chemical engineering at the Russian Mendeleev University of Chemical Technology, Moscow, and her PhD in chemistry, under the guidance of Professor Seddon. Since then she has been a research fellow and project manager in the QUILL (Queen’s University Ionic Liquid Laboratories) Research Centre, focussing on various aspects of ionic liquids, including their synthesis, characterisation, and applications.

PROF. KENNETH R. SEDDON is Chair of Inorganic Chemistry at the Queen’s University of Belfast, and director of the QUILL Research Centre, a world-leading industrial-academic consortium that was awarded the 2006 Queen’s Anniversary Prize for Higher and Further Education and has just been involved with implementing a full-scale process for removing mercury from natural gas streams with Petronas Chemicals, for which an unprecedented three global IChemE awards were presented in November 2013.

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