



Electrochemistry in Ionic Liquids: Volume 1: Fundamentals

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Electrochemistry in Ionic Liquids: Volume 1: Fundamentals From Springer

This set of two books dedicated to presenting the latest novel and advanced research from around the world in this exciting area. These books highlight the important properties of electrochemistry in ionic liquids – as opposed to the more commonly used aqueous and organic environments – and the many applications. Readers will find 20 chapters gathered in two books: The first volume critically discusses electrode-electrolyte interfacial processes, reference electrodes, ultramicroelectrode voltammetry and scanning electrochemical microscopy, semi-integral and convolution voltammetry, and small-angle X-ray scattering coupled with voltammetry. The structure and properties of protic ionic liquids, deep-eutectic solvents, task-specific ionic liquids, polymeric ion gels, and lithium-ion solvation, useful for electrochemical application is also critically discussed. The second volume's major topics covered in this book include electrodeposition and electroless deposition, voltammetry of adhered microparticles, electrochemistry of organic and organometallic compounds, electrocatalytic reactions, oxygen reduction reaction, ionic liquids in surface protection and lubrication, current industrial application of ionic liquids, and challenges, issues and recycling methods of ionic liquids in industrial developments.

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Editorial Review

From the Back Cover

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Electrochemistry in Ionic Liquids – Volume 1, Fundamentals: This book critically discusses electrode-electrolyte interfacial processes, reference electrodes, ultramicroelectrode voltammetry and scanning electrochemical microscopy, semi-integral and convolution voltammetry, and small-angle X-ray scattering coupled with voltammetry. The structure and properties of protic ionic liquids, deep-eutectic solvents, task-specific ionic liquids, polymeric ion gels, and lithium-ion solvation, useful for electrochemical application is also critically discussed.

Electrochemistry in Ionic Liquids – Volume 2, Applications: The major topics covered in this book include electrodeposition and electroless deposition, voltammetry of adhered microparticles, electrochemistry of organic and organometallic compounds, electrocatalytic reactions, oxygen reduction reaction, ionic liquids in surface protection and lubrication, current industrial application of ionic liquids, and challenges, issues and recycling methods of ionic liquids in industrial developments.

About the Author

Dr. Angel A. J. Torriero is a Lecturer of Chemistry and Electrochemistry at Deakin University, Melbourne, Australia. He has published more than 50-refereed papers (h-index = 18; Scopus, November 2014), six book chapters, several patents, and one book, *Electrochemical Properties and Applications of Ionic Liquids* in 2011. Dr. Torriero has a broad interest in both fundamental and applied electrochemistry and has made significant contributions in a number of fields, including analytical electrochemistry, biosensor, bioelectrochemistry, organic and organometallic electrochemistry, and most recently internal reference systems for ionic liquids.

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