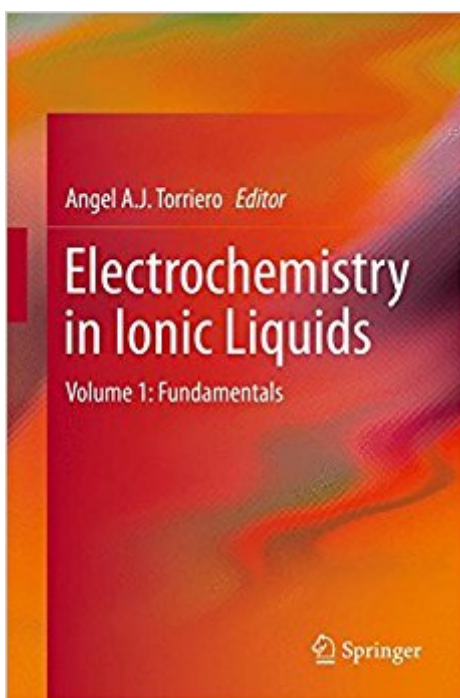


The book was found

Electrochemistry In Ionic Liquids: Volume 1: Fundamentals



Synopsis

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.

Book Information

Hardcover: 351 pages

Publisher: Springer; 1st ed. 2015 edition (July 22, 2015)

Language: English

ISBN-10: 3319134841

ISBN-13: 978-3319134840

Product Dimensions: 6.2 x 1 x 9.5 inches

Shipping Weight: 1.9 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,429,062 in Books (See Top 100 in Books) #46 in [Books > Science & Math > Chemistry > Physical & Theoretical > Electrochemistry](#) #50 in [Books > Science & Math > Chemistry > Electrochemistry](#) #539 in [Books > Science & Math > Chemistry > Industrial & Technical](#)

Customer Reviews

Electrochemistry in Ionic Liquids is a 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: *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.

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.

[Download to continue reading...](#)

Electrochemistry in Ionic Liquids: Volume 1: Fundamentals An Introduction to Ionic Liquids: RSC
Osmotic and Ionic Regulation: Cells and Animals Chemical Physics of Ionic Solutions; a Selection of Invited Papers and Discussions.. *Ionic Channels and Effect of Taurine on the Heart* (Developments in Cardiovascular Medicine) *Dynamics of Glassy, Crystalline and Liquid Ionic Conductors: Experiments, Theories, Simulations* (Topics in Applied Physics) *Environmental Electrochemistry: Fundamentals and Applications in Pollution Sensors and Abatement* *Modern Electrochemistry 2A: Fundamentals of Electrodeics* *Fundamentals and Applications of Organic Electrochemistry: Synthesis, Materials, Devices* *Fundamentals of Electrochemistry* *Hippocrates: Volume VIII, Places in Man. Glands. Fleshes. Prorrhetic 1-2. Physician. Use of Liquids. Ulcers. Haemorrhoids and Fistulas* (Loeb Classical Library No. 482) *Physical Chemistry. An Advanced Treatise. Volume IXA: Electrochemistry* (v. 9A) *Physical Chemistry. An Advanced Treatise. Volume IXB: Electrochemistry*

(v. 9B) Environmental Oriented Electrochemistry. Studies in Environmental Sciences, Volume 59
Plastic Injection Molding: Product Design & Material Selection Fundamentals (Vol II: Fundamentals of Injection Molding) (Fundamentals of injection molding series) Plastic Injection Molding: Mold Design and Construction Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding series) Change It!: Solids, Liquids, Gases and You (Primary Physical Science) What Is the World Made Of?: All About Solids, Liquids, and Gases (Let's-Read-and-Find-Out Science 2) Solids, Liquids, And Gases (Rookie Read-About Science) Joe-Joe the Wizard Brews Up Solids, Liquids, and Gases (In the Science Lab)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)