



Electroanalytical Chemistry: A Series of Advances: Volume 25

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This volume is part of a continuing **Electroanalytical Chemistry Series** designed to provide authoritative reviews on recent developments and applications of well-established techniques in the field of electroanalytical chemistry. Electroanalytical techniques are used in such diverse areas as electro-organic synthesis, fuel cell studies, and radical ion formation. Each volume provides the necessary background and starting point for graduate students undertaking related research projects and is of special interest to practicing analytical chemists concerned with electroanalytical techniques.

Each chapter provides comprehensive coverage of a subject area including detailed descriptions of techniques, derivations of fundamental equations, and discussion of important articles. **Volume 25** covers four relevant, innovative topics:

- Measuring Absolute Single Half-Cell Reduction Potentials with Mass Spectrometry
- Electrochemistry of Hydrogenases
- Bioanalytical Applications of Electrochemistry at Liquid–Liquid Microinterfaces
- Electrolytes Based on Weakly Coordinating Anions: An Advance in Anodic Molecular Electrochemistry

Coverage in this volume should specifically appeal to electrochemists, bioanalytical and life scientists, microbiologists, and researchers in bionanotechnology.

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Editorial Review

Review

" [This is] a series which, from its very beginning, proved to be one of the most successful and most frequently cited .The series has shaped the electrochemists of the last thirty years and, even more remarkably, each volume has turned out to be of lasting significance and influence."

Journal of Solid State Electrochemistry

About the Author

Allen J. Bard is a professor and Hackerman-Welch Regents Chair in Chemistry at the University of Texas at Austin, where he has taught since 1958. The author or coauthor of several books and more than 800 papers and over 23 patents, Dr. Bard was editor-in-chief of the *Journal of the American Chemical Society*, and editor or coeditor of *Standard Potentials in Aqueous Solution* (Marcel Dekker, Inc.), the multivolume *Electroanalytical Chemistry* series (Marcel Dekker, Inc.), the *Encyclopedia of Electrochemistry of the Elements* (Marcel Dekker, Inc.), and *Electrochemical Methods* (with Larry R. Faulkner). He was elected to the National Academy of Sciences in 1982 and is past president of the International Union of Pure and Applied Chemistry. Dr. Bard received a B.S. degree (1955) from the City College of New York, New York, and M.A. (1956) and Ph.D. (1958) degrees from Harvard University, Cambridge, Massachusetts. He has received a number of awards, including the Palladium medal of the ECS, the Priestly medal of the ACS, the Welch award, and the Wolf prize.

Cynthia G. Zoski is a professor in the Department of Chemistry and Biochemistry at New Mexico State University. Her research interests include electroanalytical chemistry, ultramicroelectrodes, scanning electrochemical microscopy (SECM), electrocatalysis, and sensors based on micro- and nanoelectrode arrays. Dr. Zoski is the coauthor of *Electrochemical Methods: Instructor's Solution Manual* (with Johna Leddy, Wiley, 2001) and *Electrochemical Methods: Student's Solution Manual* (with Johna Leddy, Wiley 2002), editor of the *Handbook of Electrochemistry* (Elsevier, 2007), and author or co-author of more than 60 papers and book chapters. Dr. Zoski received a B.S. (1976) degree from Lehigh University, Pennsylvania, M.Sc. (1979) from Trent University, Canada, and Ph.D. (1985) from Queen's University, Canada.

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