



Electroanalytical Chemistry: A Series of Advances: Volume 23

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Electroanalytical chemists and others are concerned not only with the application of new and classical techniques to analytical problems, but also with the fundamental theoretical principles upon which these techniques are based. With the advent of nanotechnology and the drive to create sustainable eco-friendly products, electroanalytical techniques are finding uses in fields as diverse as electro-organic synthesis, fuel cell studies, and radical ion formation. They are also employed to solve problems related to kinetics and mechanisms of electrode reactions. In addition, these techniques are useful in areas relating to electrode surface phenomena, adsorption, and the electrical double layer on electrode reactions.

For more than three decades, the *Electroanalytical Chemistry Series* has delivered the most in-depth and critical research related to issues in electrochemistry.

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Continuing the traditions of excellence and innovation that make the series so remarkably relevant, **Volume 23:**

- Examines electrochemistry activity at the liquid-liquid interfaces, demonstrating research that moves the concept from an exotic curiosity into one that shows the promise of new application development, especially in the field of energy-related chemistry
- Explores an electrochemical approach to the reduction of platinum under superdry conditions in an effort to

uncover the perfect working electrode

- Investigates the impact of metal-ligand bonding interactions on the electron-transfer chemistry of transition-metal nanoparticles
- Presents an introduction to sol-gel processing, with an emphasis on silicate formation, while looking at the dramatic advances in silicate science that electrochemists are technologically ready and eager to apply

Providing authoritative reviews on recent developments and applications, **Volume 23** in this seminal series provides researchers with essential background and offers both a reference and a starting point for academic and industry researchers seeking to make use of recent progress that will allow them to forge ahead.

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