

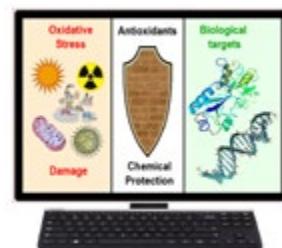


## Table of Contents

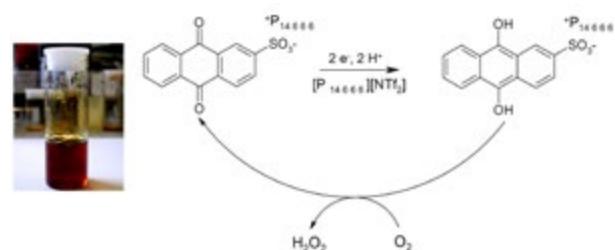
- 229 Editorial  
*Carlos Frontana and Linda González-Gutiérrez*

*Articles*

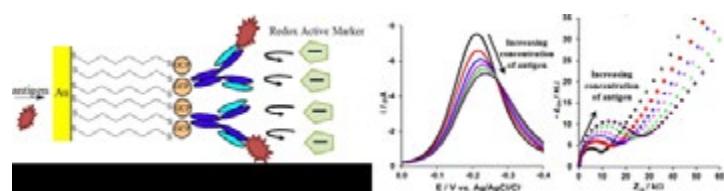
- 231-262 Free Radicals Induced Oxidative Stress at a Molecular Level: The Current Status, Challenges and Perspectives of Computational Chemistry Based Protocols  
*Annia Galano*



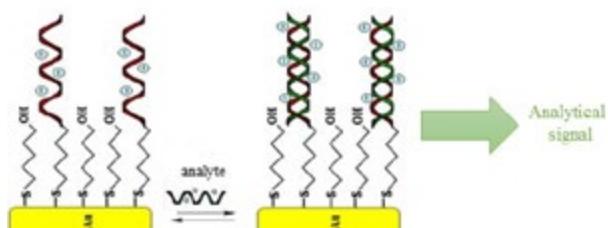
- 263-268 Quinone Redox-active Ionic Liquids  
*Andrew Patrick Doherty,\* Sean Patterson, Laura Diaconu, Louise Graham, Rachid Barhdadi, Valentin Puchelle, Klaudia Wagner, David L Office and Jun Chen and Gordon G Wallace*



- 269-275 Label-free Electrochemical Immunosensors for Viruses and Antibodies Detection -Review  
*Hanna Radecka\* and Jerzy Radecki*



- 276-281 Mechanisms of Analytical Signals Generated by Electrochemical Genosensors - Review  
*Jerzy Radecki\* and Hanna Radecka*



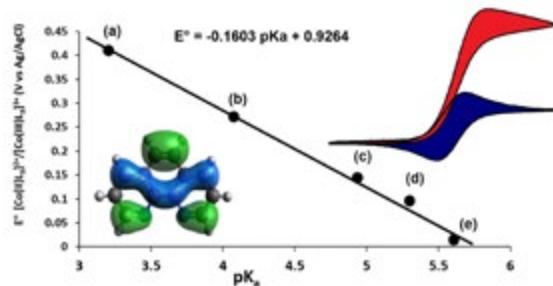
\*The asterisk indicates the name of the author to whom inquiries about the paper should be addressed

## Table of Contents

---

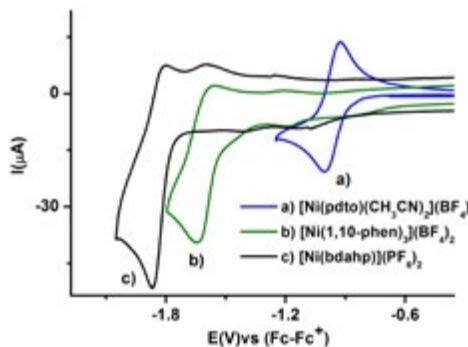
- 282-293** The Role of the  $\pi$  Acceptor Character of Polypyridine Ligands on the Electrochemical Response of Co(II) Complexes and its Effect on the Homogenous Electron Transfer Rate Constant with the Enzyme Glucose Oxidase

*Vanessa Ramírez-Delgado, Marisela Cruz-Ramírez, Luis Felipe Hernández-Ayala, Yolanda Reyes-Vidal, Rita Patakfalvi, Juan Carlos García-Ramos, Francisco J. Ténorio Rangel, Lena Ruiz-Azuara\* and Luis Ortiz-Frade\**



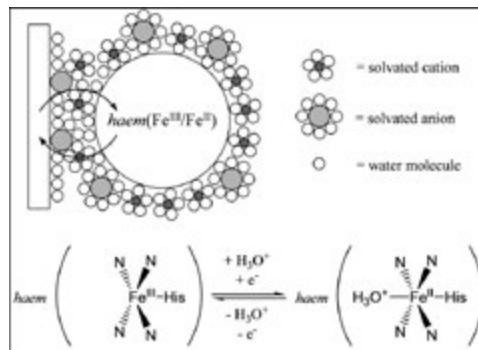
- 294-301** Electrochemical Behavior of Ni(II) Complexes with N<sub>2</sub>S<sub>2</sub> and N<sub>6</sub> Ligands as Potential Catalysts in Hydrogen Evolution Reaction

*Vanessa Ramírez-Delgado, Guadalupe Osorio-Monreal, Luis Felipe Hernández-Ayala, Yolanda Reyes-Vidal, Juan Carlos García-Ramos, Lena Ruiz-Azuara and Luis Ortiz-Frade*



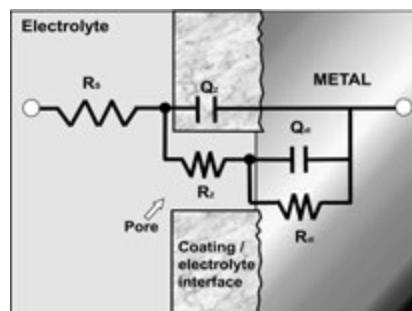
- 302-307** *In vitro* Observation of Direct Electron Transfer of Human Haemoglobin Molecules on glass/tin-doped Indium Oxide Electrodes

*Flavio Dolores Martínez-Mancera and José Luis Hernández-López\**



- 308-314** Characterization of Thin Films Deposited by Physical Vapor Deposition (PVD), Using Electrochemical Impedance Spectroscopy (EIS) Technique

*Jorge Morales Hernández,\* Araceli Mandujano Ruiz, Julieta Torrez-González, René Antaño López, Francisco Castañeda Zaldivar and Francisco Javier Espinoza Beltrán*



- 315-316** Volume index

- 317-318** Authors index