

INDEX OF CONTENTS

CHAPTER 1	1
<i>FUNCTIONALIZATION OF METALIC SURFACES FOR APPLICATIONS IN NANOMEDICINE</i>	
<i>M. Chávez, R. del Caño, I. Humanes, A. Fernandez-Merino, G. Sánchez-Obrero, R. Madueño, J. M. Sevilla, M. Blázquez and T. Pineda</i>	
CHAPTER 2	5
<i>ELECTROCHEMISTRY AND COPPER INDUSTRY</i>	
<i>G. Rios and I. Ruiz</i>	
CHAPTER 3	9
<i>HYDROPHILIC CARBON NANOMATERIALS – A PLATFORM FOR ELECTROCATALYSIS AND NANOMEDICINE</i>	
<i>M. C. F. Oliveira</i>	
CHAPTER 4	13
<i>ELECTROCHEMISTRY OF NITROAROMATIC COMPOUNDS: FROM MERCURY TO CARBON NANOTUBES</i>	
<i>J. A. Squella, J. D. Mozo and J. Carbajo</i>	
CHAPTER 5	17
<i>ELECTROCLICK CHEMISTRY, A NEW PATH FOR IMMUNOSENSING BIOMARKERS OF AUTOIMMUNE DISEASES</i>	
<i>S. Guerrero, L. Agüí, S. Campuzano, P. Yáñez-Sedeño and J. M. Pingarrón</i>	
CHAPTER 6	21
<i>MAGNETIC MICROBEADS-BASED IMMUNOSCAFFOLD FOR THE AMPEROMETRIC DETERMINATION OF AN EMERGING METASTASIS CANCER BIOMARKER</i>	
<i>C. Muñoz-San Martín, M. Gamella, M. Pedrero, M. Garranzo-Asensio, R. Barderas, S. Campuzano and J. M. Pingarrón</i>	
CHAPTER 7	25
<i>HIGHLY SENSITIVE ELECTROCHEMICAL (BIO)SENSORS FOR EVALUATION OF OXIDATIVE STRESS IN PLANTS</i>	
<i>R. Jiménez-Pérez, M. I. González-Sánchez, B. Gómez-Monedero and E. Valero</i>	
CHAPTER 8	29
<i>NH₂-MIL-88B-DERIVED MAGNETIC Fe@C-N NANOCOMPOSITES AS HETEROGENEOUS ELECTRO-FENTON CATALYSTS FOR THE DEGRADATION OF ORGANIC MICROPOLLUTANTS IN WASTEWATER</i>	
<i>Z. H. Ye, E. Xuriguera, J. A. Padilla, E. Brillas and I. Sirés</i>	
CHAPTER 9	33
<i>UV/VIS ABSORPTION SPECTROELECTROCHEMISTRY FOR STUDYING ANTIOXIDANT PROPERTIES</i>	
<i>A. Colina, A. C. González Baró, A. Muñoz, D. Izquierdo and A. Heras</i>	
CHAPTER 10	37
<i>NEW INSIGHTS IN ELECTROCHEMICAL SURFACE OXIDATION ENHANCED RAMAN SCATTERING</i>	
<i>L. Romay, S. Hernández, M. Pérez-Estebanez, J. V. Perales-Rondón, A. Heras and A. Colina</i>	
CHAPTER 11	41
<i>RGB VIDEO ELECTROCHEMISTRY OF AZINES-BASED CONDUCTIVE POLYMERS. POLY(NEUTRAL RED) AND POLY(AZURE A)</i>	
<i>J. Agrisuelas, J. Ballester, J.J. García-Jareño, A. Girona, E. Guillén and F. Vicente</i>	

CHAPTER 12	47
<i>COBALT SUPPORTED ON N AND S DUAL-DOPED REDUCED GRAPHENE OXIDE AS HIGHLY ACTIVE CATHODE CATALYST FOR DEFC</i>	
<i>S. Fajardo, G. García, J.L. Rodríguez, P. Ocón and E. Pastor</i>	
CHAPTER 13	51
<i>EFFECT OF PHOSPHORYLATION ON THE REDOX FUNCTIONALITY OF HUMAN CYTOCHROME C</i>	
<i>J. L. Olloqui-Sariego, A. Guerra-Castellano, G. Pérez, M. A. de la Rosa, M. Molero, A. Díaz-Quintana, I. Díaz-Moreno, J. J. Calvente and R. Andreu</i>	
CHAPTER 14	55
<i>ELECTROCHEMICAL REDUCTION OF CO₂ ON METAL OXIDES</i>	
<i>I. Merino-García, J. Albo and C. M. Sánchez-Sánchez</i>	
CHAPTER 15	61
<i>BISMUTH OXIDE (Bi₂O₃) AS A RECHARGEABLE AND HIGH STABILITY POSITIVE ELECTRODE FOR ALKALINE ZINC BATTERIES</i>	
<i>F. Santos, S. Lorca, J. Abad, J.P. Tafur, A. Urbina and A. J. Fernández Romero</i>	
CHAPTER 16	65
<i>OPEN INSTRUMENTATION IN ELECTROCHEMISTRY LABORATORIES</i>	
<i>D. González-Arjona, J. D. Mozo, E. Roldán González, J. Carbajo, G. López-Pérez, C. Mozo-Mulero, M. M. Domínguez Pérez and J. J. Maraver</i>	
CHAPTER 17	71
<i>THREE-DIMENSIONAL ELECTRODES CONSTITUTED BY MULTIELECTRONIC MOLECULAR MACHINES. REPLICATING BIOLOGICAL MULTIFUNCTIONALITY: SELF-AWARENESS AND PROPRIOCEPTION</i>	
<i>T. F. Otero</i>	