

Journal of Electroanalytical Chemistry

An International Journal also devoted to All Physicochemical Aspects of Fundamental and Applied Electrochemistry

Editors:

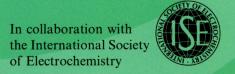
J.M. Feliu T. Kakiuchi

P. Unwin

X.H. Xia

Available online at www.sciencedirect.com

ScienceDirect



Contents lists available at ScienceDirect



Journal of Electroanalytical Chemistry



journal homepage: www.elsevier.com/locate/jelechem

Contents

Abstracts and/or contents lists of this journal are published in: Analytical Abstracts, Metals Abstracts, World Aluminum Abstracts, Chemical Abstracts, Current Contents (Physical, Chemical & Earth Sciences), Engineering Index, INSPEC. Also covered in the abstract and citation database Scopus[®]. Full text available on ScienceDirect[®].

Numerical simulation of the far-field boundaries onto a microdisc electrode by using the infinite element D. Trinh and S. Touzain	1
Simultaneous determination of Pb^{2+} , Cd^{2+} and Zn^{2+} by adsorptive stripping voltammetry using Clioquinol as a chelating-adsorbent agent	
E. Herrero, V. Arancibia and C. Rojas-Romo	9
Electrochemical polymerization of a new low-voltage oxidized thienylenepyrrole derivative and its electrochromic device application B.B. Carbas, A. Kivrak, E. Teke, M. Zora and A.M. Önal	15
Direct electrochemistry of superoxide dismutases (Mn-, Fe-, and Ni-) from human pathogen <i>Clostridium difficile</i> : Toward application to superoxide biosensor	
Q. Ye, W. Li, Z. Wang, L. Zhang, X. Tan and Y. Tian	21
Quartz crystal microbalance study of palladium alloys. Part 1: Electrodeposition of Pt-Pd-Ru alloys M. Soszko, J. Dłubak and A. Czerwiński	27
Interrelation between catalytic activity for oxygen electroreduction and structure of supported platinum A.G. Oshchepkov, A.N. Simonov, P.A. Simonov, A.N. Shmakov, N.A. Rudina, A.V. Ishchenko, O.V. Cherstiouk and V.N. Parmon	34
Mechanism of oxygen reduction by metallocenes near liquid liquid interfaces T. Jane Stockmann, H. Deng, P. Peljo, K. Kontturi, M. Opallo and H.H. Girault	43
Effects of heat treatment temperature and atmosphere on electrocatalytic properties of platinum nanocrystals X. Jiang, T. Shen, H. Li, L. Wang, Q. Yue and J. Liu	53
Imunossupressor leflunomide anodic behaviour at a boron-doped diamond electrode R.M. Buoro, T.A. Enache, S.H.P. Serrano and A.M. Oliveira-Brett	61
Electrochemical formation of a novel porous silicon/polypyrrole hybrid structure with enhanced electrical and optical characteristics F.A. Harraz	68
Solvation of monatomic cations by polar solvents and the mean spherical approximation J.S. Jaworski	75
Dual-electrode measurements in a meniscus microcapillary electrochemical cell using a high aspect ratio carbon fibre ultramicroelectrode	
T.S. Miller, J.V. Macpherson and P.R. Unwin	80
Electrochemical and morphological analysis on novel phthalocyanine grafted conductive polymeric nanofibers A.T. Gökçeören, E. Kaplan and Y. Arslanoğlu	87

(Contents continued on inside back cover)



1572-6657(20140901)729:C;1-P

(Contents continued from outside back cover)

Electrochemistry of redox mediators encapsulated within organically modified silicate matrix in the presence of TiO ₂ and palladium nanoparticles; application on electroanalysis of ascorbic acid P.C. Pandey and A. Prakash	95
$NiCo_2O_4$ nanostructures with various morphologies as the high-performance electrocatalysts for H_2O_2 electroreduction and electrooxidation X. Xiao, F. Yang, K. Cheng, X. Wang, J. Yin, K. Ye, G. Wang and D. Cao	103
An ionic liquid-Fe ₃ O ₄ nanoparticles-graphite composite electrode used for nonenzymatic electrochemical determination of hydrogen peroxide CL. Yu, NC. Lo, H. Cheng, T. Tsuda, T. Sakamoto, YH. Chen, S. Kuwabata and PY. Chen	109
Relationship between the chemical structures of antioxidants and the differences in their Cupric Ion Reducing Antioxidant Capacity (CUPRAC) by electrochemical methods A. Cárdenas, M. Gómez and C. Frontana	116
In situ scanning tunneling microscopy of the adsorption and polymerization of aniline on Au(111) electrode in nitric acid S. Chen, C. Wu and S. Yau	121
Electrochemical determination of α -lipoic acid in human serum at platinum electrode M. Marin, C. Lete, B.N. Manolescu and S. Lupu	128
Molecularly imprinted polymer based electrochemical sensor for the determination of the anthelmintic drug oxfendazole AE. Radi, AE. El-Naggar and H.M. Nassef	135