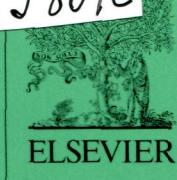


NU
J80/e



Volume 702

1 August 2013

ISSN 1572-6657

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

SciVerse ScienceDirect

In collaboration with
the International Society
of Electrochemistry



**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 SciVerse Scopus®. Full text available on SciVerse ScienceDirect®.

Electrochemical degradation of the insecticide methyl parathion using a boron-doped diamond film anode S.A. Alves, T.C.R. Ferreira, F.L. Migliorini, M.R. Baldan, N.G. Ferreira and M.R.V. Lanza	1
Oxygen reduction on thick anthraquinone films electrografted to glassy carbon M. Mooste, E. Kibena, A. Sarapuu, L. Matisen and K. Tammeveski	8
Thin-layer vs. semi-infinite diffusion in cylindrical pores: A basis for delineating Fickian transport to identify nano-confinement effects in voltammetry K.R. Ward, L. Xiong, N.S. Lawrence, R.S. Hartshorne and R.G. Compton	15
Solid-state electrochemiluminescence of two iridium(III) complexes M.-J. Li, Y.-Q. Shi, T.-Y. Lan, H.-H. Yang and G.-N. Chen	25
Electro-Fenton degradation of anti-inflammatory drug ibuprofen in hydroorganic medium S. Loaiza-Ambuludi, M. Panizza, N. Oturan, A. Özcan and M.A. Oturan	31
A nano-TiO ₂ supported AuAg alloy nanocluster functionalized electrode for sensitizing the electrochemiluminescent analysis X. Wei, C. Xiao, K. Wang and Y. Tu	37
Electrochemical impedance study on estimating the mass transport resistance in the polymer electrolyte fuel cell cathode catalyst layer S. Cruz-Manzo and R. Chen	45
Graphene-based lysozyme binding aptamer nanocomposite for label-free and sensitive lysozyme sensing Y. Xiao, Y. Wang, M. Wu, X. Ma and X. Yang	49
Porous nitrogen-doped carbon nanofibers as highly efficient metal-free electrocatalyst for oxygen reduction reaction J. Yin, Y. Qiu and J. Yu	56
Cathodic electrochemiluminescence of tris(2,2'-bipyridine) ruthenium(II) on Ag nanoparticles-modified electrode X. Lu, L. Wang, D. Liu, J. Du and H. Wang	60
Strategy on effective detection of acetaldehydes by using surface-enhanced Raman scattering-active chitosan-capped nanostructured Au K.-L. Ou, T.-C. Hsu, Y.-C. Liu, K.-H. Yang and W.-H. Sun	66
Three-dimensional (3-D) microfluidic-channel-based DNA biosensor for ultra-sensitive electrochemical detection Y.J. Kim, J.E. Jones, H. Li, H. Yampara-Iquise, G. Zheng, C.A. Carson, M. Cooperstock, M. Sherman and Q. Yu	72

