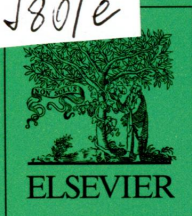


TW  
J80/e

Volume 730

15 September 2014

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

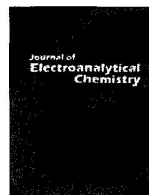
Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

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

- Electrochemical behavior of zinc oxide-based porous carbon composite nanofibers as an electrode for electrochemical capacitors  
C.H. Kim and B.-H. Kim 1
- Synthesis of Cu nanoparticles-loaded Fe<sub>3</sub>O<sub>4</sub>@carbon core-shell nanocomposite and its application for electrochemical sensing of hydrogen peroxide  
M. Zhang, Q. Sheng, F. Nie and J. Zheng 10
- Electrochemistry of parent and *exo*-skeletonally substituted icosahedral monocarba and dicarbaboranes and their derivatives at the graphite carbon electrode in aqueous phosphate buffers  
L. Fojt, M. Fojta, B. Grüner and R. Vespalec 16
- Surface coating of spinel LiMn<sub>2</sub>O<sub>4</sub> cathode electrode with lithium-nickel-manganese-oxide by RF sputtering method for lithium-ion batteries  
Y. Chae, J.K. Lee and W. Choi 20
- New electrochromic copolymers based on spiro bipropylenedioxythiophene and 3,4-ethylenedioxythiophene  
L.C. Pekel, B. Karabay and A. Cihaner 26
- On the controlled electrochemical preparation of R<sub>4</sub>N<sup>+</sup> graphite intercalation compounds and their host structural deformation effects  
A.J. Cooper, M. Velický, I.A. Kinloch and R.A.W. Dryfe 34
- Online electrochemical method for continuous and simultaneous monitoring of glucose and L-lactate in vivo with graphene hybrids as the electrocatalyst  
H. Gu, Y. Yang, X. Zhou, T. Zhou and G. Shi 41
- The influence of electrolyte identity upon the electro-reduction of CO<sub>2</sub>  
B.M. Setterfield-Price and R.A.W. Dryfe 48
- The electrochemical characteristics of the mixture of 1-ethyl-3-methylimidazolium tetrafluoroborate and 1-ethyl-3-methylimidazolium iodide  
C. Siimenson, L. Siinor, K. Lust and E. Lust 59
- Palladium nanoparticles supported on nitrogen-doped carbon spheres as enhanced catalyst for ethanol electro-oxidation  
Y. Li, L. Yao, L.-Q. Zhang, A.-R. Liu, Y.-J. Zhang and S.-Q. Liu 65
- Thorough electrochemical kinetic and energy balance models clarifying the mechanisms of normal and abnormal growth of porous anodic alumina films  
G. Patermarakis 69

