

ПУ  
J80/ae

Journal of  
**Applied**  
**Electrochemistry**

VOLUME 43 NUMBER 8 AUGUST 2013

ISSN 0021-891X

 Springer

# Journal of Applied Electrochemistry

Volume 43 · Number 8 · August 2013

## SHORT COMMUNICATION

**Synthesis and characterization of novel thiophene-based polybenzimidazole membrane for high-temperature fuel cells**

J.S. Choi · A.K. Mishra · N.H. Kim · G. Shin · J.H. Lee 749

## REVIEW PAPER

**Oxygen control technology in applications of liquid lead and lead–bismuth systems for mitigating materials corrosion**

J. Zhang 755

## RESEARCH ARTICLES

**Graphite oxide/polypyrrole composite electrodes for achieving high energy density supercapacitors**

A. Singh · A. Chandra 773

**Synthesis and properties of novel phenylethynyl-containing organodisulfide as cathode material for secondary lithium batteries**

Z. Jin · H. Zhong · S. Li · Z. Li 783

**Electrochemical dissolution of metallic platinum in ionic liquids**

C. Deferm · J. Hulsegge · C. Möller · B. Thijs 789

**Erratum 797**

**Effect of titania particles preparation on the properties of Ni–TiO<sub>2</sub> electrodeposited composite coatings**

S.T. Aruna · M. Muniprakash · V.K. William Grips 805

**Nb as an influential element for increasing the CO tolerance of PEMFC catalysts**

T.A. Rocha · F. Ibanhi · F. Colmati · J.J. Linares · V.A. Paganin · E.R. Gonzalez 817

**Smoothing of niobium by electropolishing**

N.W. Khun · M. Sumption · G.S. Frankel 829

**Electrodeposition of Zn–SiC nanocomposite coatings**

G. Roventi · T. Bellezze · R. Fratesi 839

**Sn and Sb co-doped RuTi oxides supported on TiO<sub>2</sub> nanotubes anode for selectivity toward electrocatalytic chlorine evolution**

K. Xiong · Z. Deng · L. Li · S. Chen · M. Xia · L. Zhang · X. Qi · W. Ding · S. Tan · Z. Wei 847

**Voltammetric determination of alkannin using an Au nanoparticles–poly(diallyldimethylammonium chloride)-functionalized graphene nanocomposite film**

L. Wang · D. Lu · S. Yu · X. Shi · C. Wang · Y. Zhang 855

Further articles can be found at [www.springerlink.com](http://www.springerlink.com)

**Indexed/abstracted in** *Science Citation Index, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Chemical Abstracts Service (CAS), Google Scholar, EBSCO, CSA, ProQuest, Academic OneFile, Academic Search, ASFA, CEABA-VtB, Chemistry Citation Index, ChemWeb, Current Abstracts, Current Contents/Physical, Chemical and Earth Sciences, Earthquake Engineering Abstracts, EI-Compendex, Engineered Materials Abstracts, Gale, GeoRef, INIS Atomindex, Materials Science Citation Index, OCLC, OmniFile, Science Select, SCImago, Summon by Serial Solutions, VINITI - Russian Academy of Science*

**Instructions for Authors** for *J Appl Electrochem* are available at <http://www.springer.com/10800>