

AUSTRALIAN JOURNAL OF
CHEMISTRY
 AN INTERNATIONAL JOURNAL FOR CHEMICAL SCIENCE

Volume 70 Number 9 2017

CONTENTS

RESEARCH FRONT: Dedication to Professor Alan Bond

Guest Editors: Lisandra L. Martin and Anthony P. O'Mullane

Foreword

Celebrating Professor Alan Bond's 70th Birthday

L. L. Martin, A. P. O'Mullane 957

Review

Controlling Grafting from Aryldiazonium Salts: A Review of Methods for the Preparation of Monolayers

T. Breton, A. J. Downard 960

Full Papers

Transformation of Cadmium Tetracyanoquinodimethane (TCNQ) into a Cadmium Terephthalate Metal–Organic Framework

M. Sohail, F. A. Kiani, V. Pandarinathan, S. A. Khan, D. J. Carter, R. De Marco, A. M. Bond 973

A Potentiometric Sensor for pH Monitoring with an Integrated Electrochromic Readout on Paper

E. Chow, D. D. Liana, B. Raguse, J. J. Gooding 979

Electropolymerisation of *N*-Ethylanilinium Trifluoroacetate Ionic Liquid into Poly(*N*-Ethylaniline) and Control of its Morphology

M. E. Abdelhamid, G. A. Snook, T. L. Greaves, A. P. O'Mullane 985

Limitations in Electrochemical Determination of Mass-Transport Parameters: Implications for Quantification of Electrode Kinetics Using Data Optimisation Methods

E. Mashkina, A. M. Bond, A. N. Simonov 990

Structural, Spectroscopic, and Electrochemical Characterization of Semi-Conducting, Solvated $[\text{Pt}(\text{NH}_3)_4](\text{TCNQ})_2 \cdot (\text{DMF})_2$ and Non-Solvated $[\text{Pt}(\text{NH}_3)_4](\text{TCNQ})_2$

J. Lu, A. Nafady, B. F. Abrahams, M. Abdulhamid, B. Winther-Jensen, A. M. Bond, L. L. Martin 997

Electrochemical Oxidation of $\text{W}(\text{CO})_4(\text{LL})$: Generation, Characterization, and Reactivity of $[\text{W}(\text{CO})_4(\text{LL})]^+$ (LL = α -diimine ligands)

J. P. Bullock, C.-Y. Lee, B. Hagan, H. Madhani, J. Ulrich 1006

Correlation of Impedance and Effective Electrode Area of Iridium Oxide Neural Electrodes

A. R. Harris, A. G. Paolini 1016

Zinc Electrodeposition in the Presence of an Aqueous Electrolyte Containing 1-Ethylpyridinium Bromide: Unexpected Oddities

M. E. Easton, L. C. Player, A. F. Masters, T. Maschmeyer 1025

REGULAR PAPERS

Full Papers

Polymorphs of Neutral Red, a Redox-Mediating Phenazine in Biological Systems

M. Labine-Romain, S. Beckmann, M. Bhadbhade, S. Bhattacharyya, M. Manefield, C. E. Marjo, A. M. Rich 1032

MoO_2 Formed on Mesoporous Graphene Oxide: Efficient and Stable Catalyst for Epoxidation of Olefins

G. Bian, P. Jiang, K. Jiang, Y. Shen, L. Kong, L. Hu, Y. Dong, W. Zhang 1039

Preparation and Photophysical Properties of All-*trans* Acceptor– π -Donor (Acceptor) Compounds Possessing Obvious Solvatochromic Effects

Y.-L. Pan, Z.-B. Cai, L. Bai, S.-L. Li, Y.-P. Tian 1048

Effects of Gold Nanoparticles and Gold Anti-Arthritic Compounds on Inflammation Marker Expression in Macrophages

L. R. A. James, R. Shuyter, C. T. Dillon, S. F. Ralph 1057