

# AUSTRALIAN JOURNAL OF CHEMISTRY

AN INTERNATIONAL JOURNAL FOR CHEMICAL SCIENCE

Volume 70    Number 6    2017

## CONTENTS

### Account

1,2-Diaryl-1,2-disodioethanes: Versatile, Highly Reactive, and Tunable Synthetic Equivalents of Sodium Metal  
*U. Azzena*    647

### Full Papers

Synthesis of a Tetraphenylethene-Substituted Tetrapyridinium Salt with Multifunctionality: Mechanochromism, Cancer Cell Imaging, and DNA Marking

*A. Rananaware, A. N. Abraham, D. D. La, V. Mistry, R. Shukla, S. V. Bhosale*    652

A Green and Convenient Route for the Regioselective Synthesis of New Substituted 3-Aryl-5*H*-indeno[1,2-*c*]pyridazines as Potential Monoamine Oxidase Type A Inhibitors

*M. Rimaz, F. Aali, B. Khalili, R. H. Prager*    660

Preparation and Characterization of PA6-PEG/Li High Performance Static Dissipation Composites

*C. Yang, S. Tan, G. Chen, L. Guan*    669

A New Fluorometric Method for the Determination of Oxaliplatin Based on Cucurbit[7]uril Supramolecular Interaction

*Y. X. Chang, X. C. Duan, X. M. Zhang, F. Liu, L. M. Du*    677

Cope Rearrangement in Bicyclo[5.1.0]octa-2,5-diene and its Mono- and Di-Hetero Analogues: A DFT Study

*P. Yadav, S. Yadav, A. Gurjar, R. K. Bansal*    683

Synthesis and Characterisation of Hierarchically Porous HZSM-5 as Catalysts for the Synthesis of 2,3,5-Trimethyl-1,4-benzoquinone

*Y. Shen, F. Wang, C. Yang, X. Zhang*    691

Improved Extraction Yield of Citral from Lemon Myrtle Using a Cellulose-Dissolving Ionic Liquid

*K. Munakata, M. Yoshizawa-Fujita, M. Rikukawa, T. Usuki*    699

Open-Chain Crown-Ether-Derived Two-Photon Fluorescence Probe for Real-Time Dynamic Biopsy of Mercury Ions

*C. Huang, D. Zhang, J. Qu, X. Liu, G. Zhao, T. Yuan, Y. Liu*    705

Ring-Opening Dispersion Polymerization of L-Lactide with Polylactide Stabilizer in Supercritical Carbon Dioxide

*J. Deng, S. Zhan, J. Wang, Z. Liu, Z. Li*    712

Aptamer-Based Fluorescent Switch for Sensitive Detection of Oxytetracycline

*M. Babaei, S. H. Jalalian, H. Bakhtiari, M. Ramezani, K. Abnous, S. M. Taghdisi*    718

Dehydrogenative Coupling of Hydrosilanes and Alcohols by Alkali Metal Catalysts for Facile Synthesis of Silyl Ethers

*A. Harinath, J. Bhattacharjee, S. Anga, T. K. Panda*    724

Effective Dissolution of Biomass in Ionic Liquids by Irradiation of Non-Thermal Atmospheric Pressure Plasma

*K. Kuroda, K. Shimomura, T. Ishijima, K. Takada, K. Ninomiya, K. Takahashi*    731

Polyanhydride Nanoparticles: Thiol–Ene ‘Click’ Polymerizations Provide Functionalized and

Cross-Linkable Nanoparticles with Tuneable Degradation Times

*O. Z. Durham, K. L. Poetz, D. A. Shipp*    735

Ilimaquinone and 5-*epi*-Ilimaquinone: Beyond a Simple Diastereomeric Ratio, Biosynthetic Considerations from NMR-Based Analysis

*A. Boufridi, D. Lachkar, D. Erpenbeck, M. A. Beniddir, L. Evanno, S. Petek, C. Debitus, E. Poupon*    743

### Communication

Rates of Water Exchange in 2,2'-Bipyridine and 1,10-Phenanthroline Complexes of Co<sup>II</sup> and Mn<sup>II</sup>

*S. S. Acharya, B. Winther-Jensen, L. Spiccia, C. A. Ohlin*    751

### Corrigendum

Novel Thymohydroquinone Derivatives as Potential Anticancer Agents: Design, Synthesis, and Biological Screening

*A. H. Abdelazeem, Y. M. A. Mohamed, A. M. Gouda, H. A. Omar, M. M. Al Robaian*    755

[*Aust. J. Chem.*, **69**(11), 1277–1284]