

AUSTRALIAN JOURNAL OF
CHEMISTRY
AN INTERNATIONAL JOURNAL FOR CHEMICAL SCIENCE

Volume 66 Number 9 2013

CONTENTS

RESEARCH FRONT: Third Molecular Materials Meeting (M3) @ Singapore

Guest Editor: Curt Wentrup

Foreword

The 3rd Molecular Materials Meeting (M3) @ Singapore
Y. Zong, T. S. A. Hor 993

Reviews

Polymeric Hydrogels and Nanoparticles: A Merging and Emerging Field
E. Ye, X. J. Loh 997

Engineering the Design of Brightly-Emitting Luminescent Nanostructured Photonic Composite Systems
M. C. Tan, D. J. Naczynski, P. V. Moghe, R. E. Riman 1008

Full Papers

Effects of Nuclear Vibrations on the Energetics of Polythiophene: Quantized Energy Molecular Dynamics
S. Manzhos 1021

Dinuclear Cu(II) 1,2,3-Triazole-Bridged Complex with Ferromagnetic Coupling
S.-Q. Bai, L. Jiang, J.-L. Zuo, C.-H. Yan, T. S. A. Hor 1029

Quantitative Detection with Surface Enhanced Raman Scattering (SERS) Using Self-Assembled Gold Nanoparticle Cluster Arrays
S. Dinda, F. L. Yap, V. Suresh, R. K. Gupta, D. Das, S. Krishnamoorthy 1034

The Effect of Different Clay Dispersion Methods on the Properties of Polyurethane/Clay Nanocomposites
S. L. Sin, J. N. Kumar, H. R. Tan, C. He, Y. Liu, J. Xu 1039

Electrochromic π-Conjugated Copolymers Derived from Azulene, Fluorene, and Dialkyloxybenzothiadiazole
S. Z. H. Lim, W. T. Neo, C. M. Cho, X. Wang, A. Y. X. Tan, H. S. O. Chan, J. Xu 1048

REGULAR PAPERS

Full Papers

Complexation of Crystal Violet, Pyronine B, and Rhodamine B by Linked β-Cyclodextrin Trimers
H.-T. Nguyen, D.-T. Pham, C. J. Easton, S. F. Lincoln 1057

Iridium(III) Complexes Containing 1,10-Phenanthroline and Derivatives: Synthetic, Stereochemical, and Structural Studies, and their Antimicrobial Activity
M. Pandrala, F. Li, L. Wallace, P. J. Steel, B. Moore II, J. Autschbach, J. G. Collins, F. R. Keene 1065

Formation of Advanced Glycation End Products (AGEs) are Influenced by Lipids in Milk Powders
L. Liu, R. V. Hedegaard, L. H. Skibsted 1074

Mono, Di and Trifunctional Cyclic Organic Peroxides: The Effect of Substituents and Ring Size on their Thermolysis in 1,4-dioxan
R. Nesprrias, G. Eyler, A. Cañizo 1080

A Facile Eco-Friendly One-Pot Five-Component Synthesis of Novel 1,2,3-Triazole-Linked Pentasubstituted 1,4-Dihydropyridines and their Biological and Photophysical Studies
H. Singh, J. Sindhu, J. M. Khurana, C. Sharma, K. R. Aneja 1088

Non-enzymatic Glucose Sensor Based on Palladium Coated Nanoporous Gold Film Electrode
N. Tavakkoli, S. Nasrollahi 1097

Communications

Concise Synthesis of Enantiomerically Pure (1'S,2'R)- and (1'R,2'S)-2S-Amino-3-(2'-aminomethylcyclopropyl) propionic Acid: Two *E*-Diastereoisomers of 4,5-Methano-L-lysine
T. M. Altamore, O. T. K. Nguyen, Q. I. Churches, K. Cavanagh, X. T. T. Nguyen, S. A. M. Duggan, G. Y. Krippner, P. J. Duggan 1105

Total Synthesis of Bouchardatine
N. H. Naik, T. D. Urmode, A. K. Sikder, R. S. Kusurkar 1112