

Journal of The Chemical Society

Chemical Communications

ISSUED TWICE MONTHLY

JCCCAT (23) 1201–1244 (1981)

CONTENTS

Page

- 1201 Spin-echo Methods for Resolution Control of Lanthanide-shifted N.M.R. Spectra
J. Mark Bulsing, Jeremy K. M. Sanders, and Laurance D. Hall
- 1203 The Thermal *cis-trans*-Isomerization of Some Substituted Tetraphenylcyclopropanes. An Assessment of the Importance of Merostabilization of a 1,3-Biradical
Donald R. Arnold and Masato Yoshida
- 1204 Novel Resveratrol Tetramer, Vaticaffinol, from *Vatica affinis* Thw. (Dipterocarpaceae)
M. Uvais S. Sultanbawa, Sivaguanasundram Surendrakumar, Mohamed I. M. Wazeer, and Peter Bladon
- 1206 Hydroxylation of Phenylalanine by Aqueous H_2O_2 in the Presence of an Artificial Water-soluble Iron Porphyrin Complex
Takeo Shimidzu, Tomokazu Iyoda, and Naoya Kanda
- 1207 Annular Tautomerism in the Solid State: a High Resolution N.M.R. Study
Jose Elguero, Alain Fruchier, and Valdo Pellegrin
- 1209 Chloroformate Ester-induced Reductive 1,2-Bond Cleavage of Some 1,2,3,4-Tetrahydro- β -carboline Derivatives
Martin J. Calverley
- 1210 X-Ray Crystal Structure of a Conducting Polymer Precursor: Bridge-stacked Phthalocyanine Gallium Fluoride
R. S. Nohr and Kenneth J. Wynne
- 1212 Electrochemistry of Six-co-ordinate Cr^{III} Porphyrins
Lawrence A. Bottomley and Karl M. Kadish
- 1214 The Oxidation of the Trisulphur Trinitride Anion $S_3N_2^-$ by Molecular Oxygen; Preparation and the Crystal and Molecular Structure of $[(Ph_3P)_2N]^+[S_3N_2O]^-$
Tristram Chivers, Richard T. Oakley, A. Wallace Cordes, and William T. Pennington
- 1215 Utilization of the Deuterium Isotope Effect to suppress Enolization during Alkylation of Ketones
Stephen A. Jacobs, Cecilia Cortez, and Ronald G. Harvey
- 1216 Synthesis and Properties of Substituted Ruthenium Aqua Complexes
Paul Bernhard, Hans Lehmann, and Andreas Ludi
- 1217 π -Arene Complexes as Unexpected Deactivation Products in Alkane Activation and Alkene Hydrogenation Reactions
Robert H. Crabtree, Michelle F. Mellea, and Jennifer M. Quirk
- 1218 Synthesis and X-Ray Crystal Structure Determination of the Cationic Gold Cluster Compound $[Au_8(PPh_3)_7](NO_3)_2$
Jan W. A. van der Velden, Jan J. Bour, Wil P. Bosman, and Jan H. Noordik
- 1219 Penicillin Biosynthesis: A Model for the Oxidative Cyclisation of a Peptide to a β -Lactam
Jack E. Baldwin and Anthony P. Davis
- 1221 A New Family of Crystalline, Three Dimensionally Ordered, Microporous Structures
John M. Thomas, Marc Audier, and Jacek Klinowski
- 1223 Degradation of Horse Heart Cytochrome c to a Single Diastereoisomeric Porphyrin c
Shosuke Kojo, Seiyo Sano, and Koushi Fukunishi

Contents—continued overleaf

For Notices to Authors, see issue 1, pp. 1 to 4

Contents—continued

Page	
1224 An N.M.R. Method for the Quantitative Determination of the N-1:N-3 Protonation Ratio in 2,4-Diaminopyrimidine	D. Vaughan Griffiths and Stephen P. Swetnam
1225 Reaction of <i>N</i> -t-Butoxycarbonylaminoc Acid Anhydrides with Tertiary Amines and Carbodi-imides. New Precursors for 2-t-Butoxyoxazol-5(4 <i>H</i>)-one and <i>N</i> -Acylureas	N. Leo Benoiton and Francis M. F. Chen
1227 Biosynthesis of a Cyclopentyl Dienyl Isonitrile Acid in Cultures of the Fungus <i>Trichoderma hamatum</i> (Bon.) Bain. aggr.	Jack E. Baldwin, Andrew E. Derome, Leslie D. Field, Peter T. Gallagher, Ahmed A. Taha, Viktor Thaller, Donald Brewer, and Alan Taylor
1229 Addition of Diphenyldiazomethane to Hexa-alkoxydimolybdenum($M\equiv M$) Compounds: Characterization of $Mo_2(OPr^I)_6(N_2CPh_2)_2$ (pyridine) by X-Ray Crystallography	Malcolm H. Chisholm, Kirsten Folting, John C. Huffman, and Andrew L. Ratermann
1231 Reaction of Lithium Dialkylcuprates with S-2-Pyridyl Thioates in the Presence of Oxygen. A Carboxylic Ester Synthesis	Sunggak Kim, Jae In Lee, and Bong Young Chung
1232 A Catalytic Method for α -Glycol Cleavage	Derek H. R. Barton, William B. Motherwell, and Alan Stobie
1234 Stereoselective Synthesis of (<i>3R,4S/3S,4R</i>)-(6 <i>E,10Z</i>)-3,4,7,11-Tetramethyltrideca-6,10-dienal (Faranal); the Trail Pheromone of the Pharaoh's Ant	Raymond Baker, David C. Billington, and Neela Ekanayake
1235 The Photochemical Enolization of an Aliphatic α,β -Unsaturated Ketone	Calvin S. K. Wan and Alan C. Weedon
1236 Synthesis of Phytuberin from Elemol	Fusao Kido, Haruo Kitahara, and Akira Yoshikoshi
1238 On Anchimerically Assisted Homolysis via Sulphide Functions	Alexander J. Lawson
1239 Internal Return in the Solvolysis of Secondary Alkyl Arenesulphonates	H. Maskill, John T. Thompson, and Alan A. Wilson
1240 Benzyl Trichloroacetimidate, a Versatile Reagent for Acid-catalysed Benzylation of Hydroxy-groups	Tommy Iversen and David R. Bundle
1241 Redox Chemistry of Niobium Chalcogenide Halides: A Mixed Valency Nb^{III}/Nb^{IV} Tetramer. Preparation and Crystal Structure of a (μ -Diselenido- μ -selenido)-tetra niobium Complex, $Nb_4Br_{10}Se_3(NCMe)_4$	A. John Benton, Michael G. B. Drew, and David A. Rice
1243 Reinvestigation of the 4-Methoxy-2,6-dimethylbenzenesulphonyl (Mds) Protecting Group for the Guanidino-function during Peptide Synthesis	Clark W. Smith, Gerald Skala, and James R. Boal