

JOURNAL OF THE CHEMICAL SOCIETY

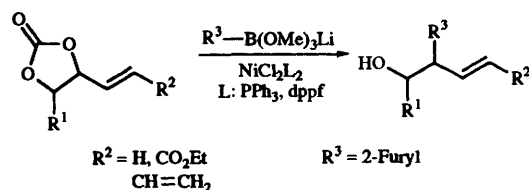
Perkin Transactions 1

Organic and Bio-organic Chemistry

CONTENTS

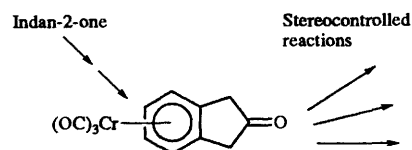
Perkin Communications

- 2073 **Regioselectivity in the nickel-catalysed coupling of cyclic carbonates of but-3-ene-1,2-diols with organoborates**



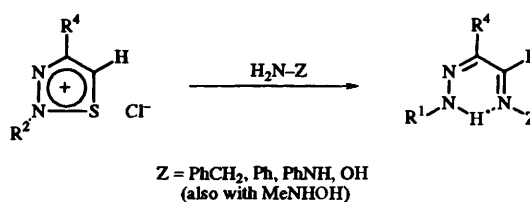
Ryo Mizojiri and Yuichi Kobayashi

- 2077 **Synthesis and reactivity of tricarbonyl(indan-2-one)chromium(o)**



E. Lucy M. Cowton, Susan E. Gibson (née Thomas), Michael J. Schneider and Mark H. Smith

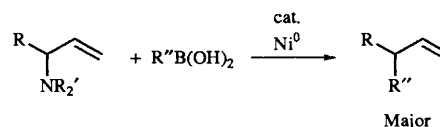
- 2079 **Ring-opening desulfurization of 1,2,3-thiadiazolium salts with N-nucleophiles**



Gerrit L'abbé, Peggy Vossen, Wim Dehaen and Suzanne Toppet

Keynote Article

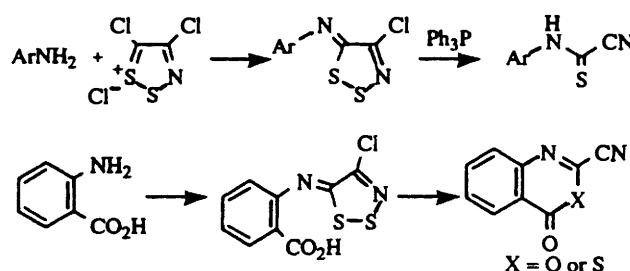
- 2083
- Nickel catalysed coupling of allylamines and boronic acids**



Barry M. Trost and Michel D. Spagnol

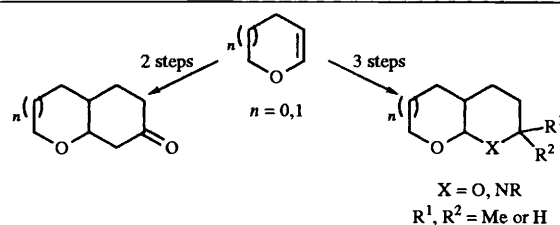
Articles

- 2097
- 1,2,3-Dithiazoles and new routes to 3,1-benzoxazin-4-ones, 3,1-benzothiazin-4-ones and N-arylcyanothioformamides**



Thierry Besson, Kumaraswamy Emayan and Charles W. Rees

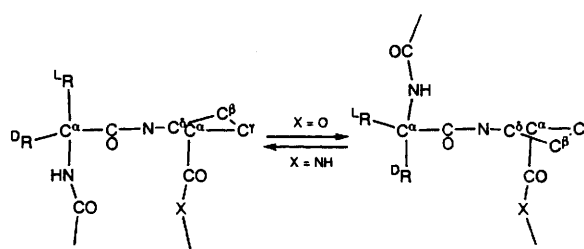
- 2103
- 2-Alkoxy-3-oxoalkyl-tetrahydropyrans and -tetrahydrofurans: versatile intermediates in heterocyclic synthesis**



Pierre Duhamel, Abdallah Deyine, Gilles Dujardin, Gérard Plé and Jean-Marie Poirier

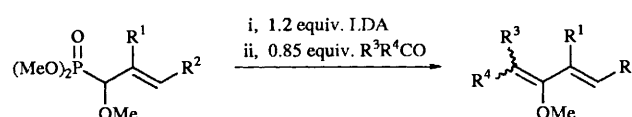
Stereocontrolled annulation processes of cyclic enol ethers are described with 1,5-keto acetal formation as the key step

- 2115
- Two alternative conformational states of α,α -dialkylglycyl-L-prolyl sequences governed by presence/absence of an NH group directly following the proline residue. X-Ray crystal and molecular structures of Boc-D-Iva-L-Pro-NHBzl and Boc-L-Iva-L-Pro-NHBzl**



Masao Kawai, Yoshimasa Omori, Hatsuo Yamamura, Yasuo Butsugan, Tooru Taga and Yoshihisa Miwa

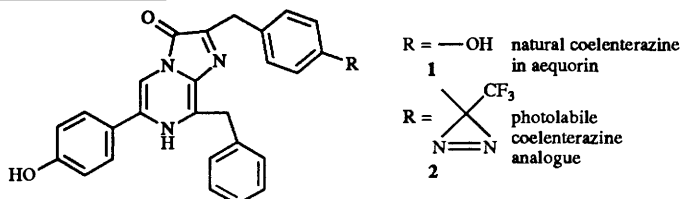
- 2123
- Preparation of α -methoxyallylphosphonates and their conversion into 2-methoxyalka-1,3-dienes**



Kevin Fettes, Leslie McQuire and Alistair W. Murray

2129 **A potential photoaffinity probe for labelling the active site of aequorin: a photolabile coelenterazine analogue with a trifluoromethyldiazirine group**

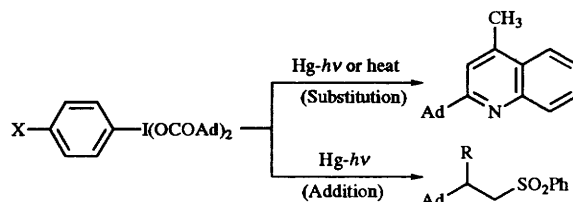
Feng Qi Chen, Jing Ling Zheng, Takashi Hirano, Haruki Niwa, Yoshihiro Ohmiya and Mamoru Ohashi



Photolabile coelenterazine analogue 2 has been synthesized to probe the active site of aequorin and behaves in an almost identical fashion to natural coelenterazine in terms of luminescence characteristics

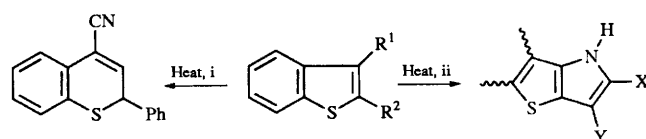
2135 **Reactivity of [bis(1-adamantylcarbonyloxy)iodo]arenes in substitution and addition reactions**

Hideo Togo, Rie Taguchi, Kentaro Yamaguchi and Masataka Yokoyama



2141 **Synthesis and thermal decomposition of azidovinylbenzo[*b*]thiophenes**

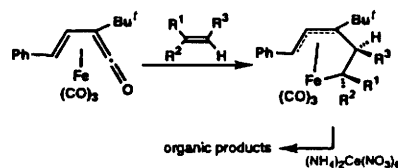
Alessandro Degl'Innocenti, Maria Funicello, Patrizia Scafato, Piero Spagnolo and Paolo Zanirato



i, R¹ = CH=CHPh, R² = N₃;
ii, R¹ = N₃, R² = CH=CXY (X, Y = H, Ac, CO₂Et)

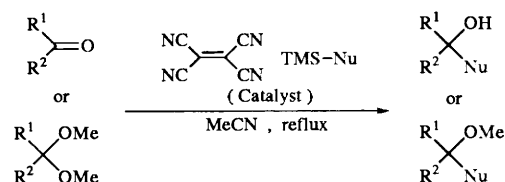
2147 **Synthesis and oxidation of the decarbonylated adducts generated from alkenes and tricarbonyl(vinylketene)iron(0) complexes**

Susan E. Gibson (née Thomas), Stephen P. Saberi, Alexandra M. Z. Slawin, Paul D. Stanley, Mark F. Ward, David J. Williams and Paul Worthington



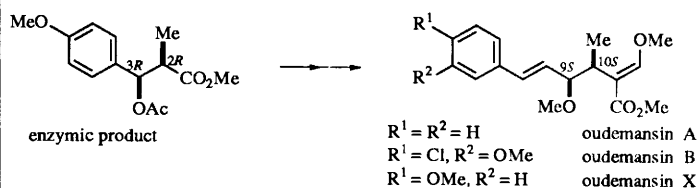
2155 **Carbon-carbon bond formation and reduction of aldehydes, ketones and acetals with silylated nucleophiles catalysed by tetracyanoethylene**

Tsuyoshi Miura and Yukio Masaki



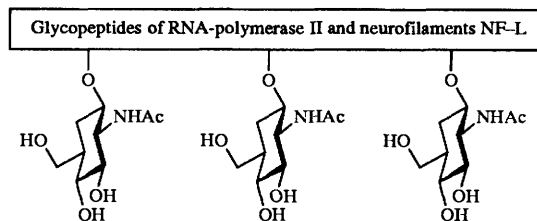
2159 **Formal total syntheses of (–)-oudemansins A, B and X based on a lipase-catalysed hydrolysis of an acetate**

Hiroyuki Akita, Cheng Yu Chen and Shinji Nagumo



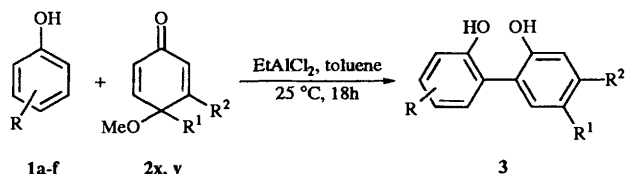
2165 **Comparison of *N*-Dts and *N*-Aloc in the solid-phase syntheses of *O*-GlcNAc glycopeptide fragments of RNA-polymerase II and mammalian neurofilaments**

Ernst Meinjohanns, Antonio Vargas-Berenguel, Morten Meldal, Hans Paulsen and Klaus Bock



2177 **Selective synthesis of unsymmetrical 2,2'-dihydroxylated biaryls via electrophilic arylation of metal phenolates with *p*-benzoquinone monoketals**

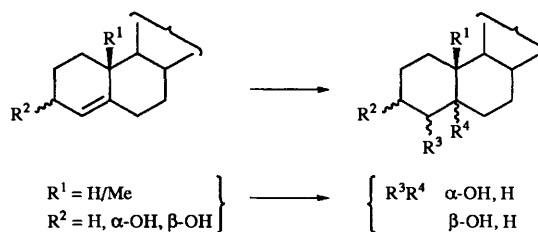
Giovanni Sartori, Raimondo Maggi, Franca Bigi, Simone Giacomelli, Cecilia Porta, Attilio Arienti and Gabriele Bocelli



Dihydroxylated biaryls **3** are synthesised by treating phenols **1a-f** with *p*-benzoquinone monoketals **2x, y** in the presence of EtAlCl_2

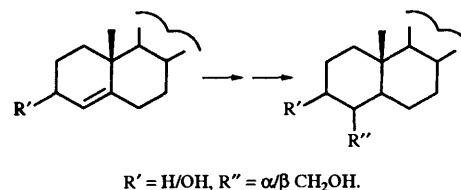
2183 **Facial selectivity in the hydroboration of androst-4-enes**

James R. Hanson, Peter B. Hitchcock, Mansur D. Liman and Sivajini Nagaratnam



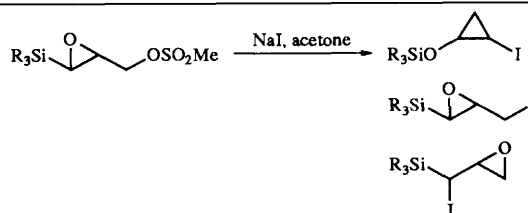
2189 **4-Hydroxymethyl steroids related to aphidicolin**

Juliette A. Boynton and James R. Hanson



2193 **Synthesis of the glycidol (1*R*,2*R*)-1-iodo-2-(triphenylsilyloxy)cyclopropane: new rearrangements of 2,3-epoxy-3-(trialkyl/arylsilyl)propan-1-ols**

Barbara Achmatowicz, Piotr Raubo and Jerzy Wicha



Reaction of silyloxypropyl mesylates with NaI affords cyclopropane or oxirane derivatives, depending upon the nature of the silyl group

Corrigenda

- 2197 **Synthesis of pyrazole fatty ester derivatives in water: a sonochemical approach** Marcel S. F. Lie Ken Jie and Prabhavathi Kalluri
- 2197 **Synthesis of novel carbo- and hetero-polycycles. Part 30. 1,3-Dipolar cycloaddition of nitrile functions with some selected nitrones. Efficient synthesis of 2,3-dihydro-1,2,4-oxadiazole derivatives** Yang Yu, Naoto Watanabe, Masatomi Ohno and Shoji Eguchi

AUTHOR INDEX

- Achmatowicz, Barbara, 2193
Akita, Hiroyuki, 2159
Arienti, Attilio, 2177
Besson, Thierry, 2097
Bigi, Franca, 2177
Bocelli, Gabriele, 2177
Bock, Klaus, 2165
Boynton, Juliette A., 2189
Butsugan, Yasuo, 2115
Chen, Cheng Yu, 2159
Chen, Feng Qi, 2129
Cowton, E. Lucy M., 2077
Degl'Innocenti, Alessandro, 2141
Dehaen, Wim, 2079
Deyine, Abdallah, 2103
Duhamel, Pierre, 2103
Dujardin, Gilles, 2103
Eguchi, Shoji, 2197
Emayan, Kumaraswamy, 2097
Fettes, Kevin, 2123
Funicello, Maria, 2141
Giacomelli, Simone, 2177
Gibson (née Thomas), Susan E., 2077, 2147
Hanson, James R., 2183, 2189
Hirano, Takashi, 2129
Hitchcock, Peter B., 2183
Kalluri, Prabhavathi, 2197
Kawai, Masao, 2115
Kobayashi, Yuichi, 2073
L'abbé, Gerrit, 2079
Lie Ken Jie, Marcel S. F., 2197
Liman, Mansur D., 2183
Maggi, Raimondo, 2177
Masaki, Yukio, 2155
McQuire, Leslie, 2123
Meinjohnns, Ernst, 2165
Meldal, Morten, 2165
Miura, Tsuyoshi, 2155
Miwa, Yoshihisa, 2115
Mizojiri, Ryo, 2073
Murray, Alistair W., 2123
Nagaratnam, Sivajini, 2183
Nagumo, Shinji, 2159
Niwa, Haruki, 2129
Ohashi, Mamoru, 2129
Ohmiya, Yoshihiro, 2129
Ohno, Masatomi, 2197
Omori, Yoshimasa, 2115
Paulsen, Hans, 2165
Plé, Gérard, 2103
Poirier, Jean-Marie, 2103
Porta, Cecilia, 2177
Raubo, Piotr, 2193
Rees, Charles W., 2097
Saber, Stephen P., 2147
Sartori, Giovanni, 2177
Scafato, Patrizia, 2141
Schneider, Michael J., 2077
Slawin, Alexandra M. Z., 2147
Smith, Mark H., 2077
Spagnol, Michel D., 2083
Spagnolo, Piero, 2141
Stanley, Paul D., 2147
Taga, Tooru, 2115
Taguchi, Rie, 2135
Togo, Hideo, 2135
Toppet, Suzanne, 2079
Trost, Barry M., 2083
Vargas-Berenguel, Antonio, 2165
Vossen, Peggy, 2079
Ward, Mark F., 2147
Watanabe, Naoto, 2197
Wicha, Jerzy, 2193
Williams, David J., 2147
Worthington, Paul, 2147
Yamaguchi, Kentaro, 2135
Yamamura, Hatsuo, 2115
Yokoyama, Masataka, 2135
Yu, Yang, 2197
Zanirato, Paolo, 2141
Zheng, Jing Ling, 2129

NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.

Forthcoming Articles in *Perkin Transactions 1*

Keynote Article: Studies in the cycloproparene series: heterocyclic substituted methylenecyclopropa[*b*]naphthalenes
B. Halton, M.J. Cooney, T.W. Davey, G.S. Forman, Q. Lu, R. Boese, D. Blaser and A.H. Maulitz

Diacetylenic sterols: new potentially photopolymerizable lipids **R. Bittman and C. Vilcheze**

Conversions of 2-aminopyridines into 5-substituted derivatives mediated by 1-hydroxymethylbenzotriazole
A.R. Katritzky, S. El-Zemity and H. Lang

Preparation of (*Z*)-heptadec-8-eneboronic acid: a potential lipase inhibitor **V. Martichonok and J.B. Jones**

Simple and efficient strategy for making β -(1 \rightarrow 6)-linked galactooligosaccharides using 'naked' galactopyranosides as acceptors **H.J. Jennings, K.P. Ravindranathan, K.P. Kartha, M. Kiso and A. Hasegawa**

Activity and enantioselectivity of serine proteases in transesterification reactions in organic media
D.N. Reinhoudt, J. Broos, J.F.J. Engbersen, I.K. Sakodinskaya and W. Verboom

Synthesis of chiral diferrocenyl dichalcogenides and their application to asymmetric nucleophilic ring-opening of *meso*-epoxides **Y. Nishibayashi, J.D. Singh, S.-I. Fukuzawa and S. Uemura**

New entry to the *cis*-fused bicyclic ring system by the [2,3]sigmatropic rearrangement *via* cyclic allylsulfonium ylides. Synthesis of *cis*-2-oxa-9-vinyldecalin skeleton **M.Kato, F. Kido and T. Abiko**

Highly stereocontrolled total synthesis of (+)-bengamide **M. Hanaoka, C. Mukai, S.M. Moharram and O. Kataoka**

Rearrangement of 1-phenyl-3,4-dihydro-1*H*-2-benzothiinium 2-methylides
Y. Sato, T. Tanzawa, N. Shirai, K. Hatano and Y. Kurono

Preparation of thiazolo-carbazoles *via* Fischer indole synthesis **G. Kirsch, L. Martarello and D. Joseph**

Three positional isomers of substituted triphenylmethanes from reactions of trityl anion with 1-acyl-2,2-dimethylaziridines
H. Stamm, J. Werry, P.-Y. Lin and P. Assithianakis

Synthesis of cyclocholate-capped porphyrins **R.P. Bonar-Law and J.K.M. Sanders**

Synthesis and oxidative behaviour of reduced indeno[1,2-*b*]quinoxalines and benzo[*b*]phenazines
M. Sainsbury, D.W. Brown, M.F. Mahon and A. Ninan

Aminolysis and alkaline hydrolysis of protected 1-hydroxybenzotriazol-1-yl esters of adenosine 5-phosphorothioate and phosphorodithioate **C.B. Reese, L.H.K. Shek and Z. Zhao**

New route to 1-formylalkylphosphonate using diethyl trichloromethylphosphonate as precursor
P. Savignac, Y. Zanella and S. Berte-Verrando

Synthesis and application of pyrrole-based novel chiral aromatic diads and triads **T. Aida, Y. Furusho and A. Tsunoda**

On-resin solid phase synthesis of asparagine N-linked glycopeptides. Use of *N*-(2-acetoxy-4-methoxybenzyl) (AcHmb) aspartyl amide bond protection to prevent unwanted aspartimide formation **T. Johnson, J. Offer and M. Quibell**

Antitumour benzothiazoles. Part 2. Formation of 2,2-diaminobiphenyls from the decomposition of 2-(4-azidophenyl)benzazoles in trifluoromethanesulfonic acid **M.F.G. Stevens, D.-F. Shi and A. Castro**

Studies on the stereoselectivity of osmylation of *cis*-bicyclo[3.3.0]oct-6-enes
C.L. Willis, N. Broom, P.J. O'Hanlon, T.J. Simpson and R. Stephen

Mechanistic Studies of Pummerer-type reactions in acyclic and rigid cyclic sulfoxides induced by *O*-silylated ketene acetal
Y. Kita, N. Shibata, N. Yoshida, N. Kawano, C. Fujimori, N. Yoshikawa and S. Fujita

Regiospecific synthesis of 4-fluoro- $\Delta^4,3$ -keto steroids using caesium fluoroxysulfate
H.F. Hodson, D.J. Madge and D.A. Widdowson

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1
COMMUNICATIONS

NORTH AMERICAN AUTHORS

Please submit your Perkin Communications
and Articles to

Professor Tomas Hudlicky
North American Associate Editor
Department of Chemistry
University of Florida
PO Box 117200
Gainesville
FL 32611-7200
USA

COPIES OF CITED ARTICLES

The Royal Society of Chemistry Library can usually supply copies of cited articles. For further details contact: The Library, Royal Society of Chemistry, Burlington House, Piccadilly, London UK W1V 0BN. Tel +44 (0) 171 437 8656. Fax: +44 (0) 171 287 9798. Telecom Gold 84: BUR210. Electronic Mailbox (Internet) LIBRARY@RSC.ORG
If the material is not available from the Society's Library, the staff will be pleased to advise on its availability from other sources. Please note that copies are not available from the RSC at Thomas Graham House, Cambridge.