

JOURNAL OF THE CHEMICAL SOCIETY

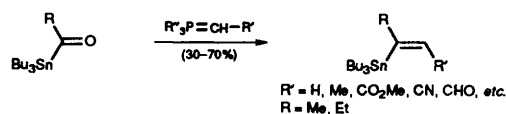
Perkin Transactions 1

Organic and Bio-organic Chemistry

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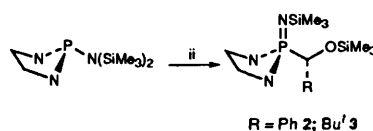
Perkin Communications

- 1367 A new synthesis of vinyltins by reaction of phosphorus ylides with acyltins



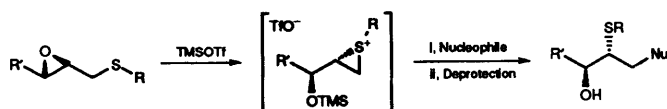
Jean-Baptiste Verlhac, HeeAn Kwon and Michel Pereyre

- 1369 Novel (1,3)-bifunctional organophosphorus(III) phosphorylating agents

2-Bis(trimethylsilyl)amido-1,3,2-diazaphospholidine 1 is shown to be an excellent phosphorylating agent towards aldehydes *via* the Abramov reaction

Vivienne Sum and Terence P. Kee

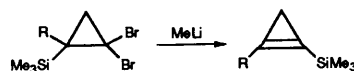
- 1371 Lewis acid-induced rearrangement of 2,3-epoxy sulfides: regioselective nucleophilic trapping of thiuranium ion intermediates with nitrogen nucleophiles



Treatment of a 2,3-epoxy sulfide with TMSOTf generates a 3-trimethylsilyloxy-1,2-thiuranium ion which may be regioselectively trapped with nitrogen nucleophiles to give 1-substituted-3-hydroxy 2-thioethers with full control of both absolute and relative stereochemistry

Duncan M. Gill, Neil A. Pegg and Christopher M. Rayner

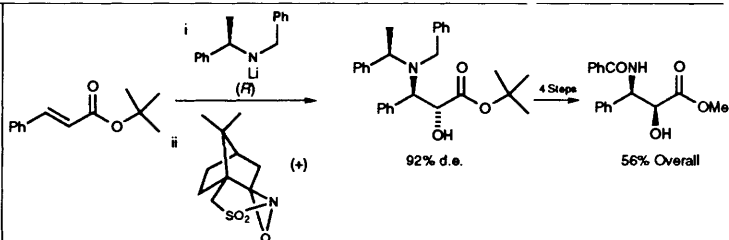
- 1373 A 1,2-silicon shift in cyclopropylidenes leading to 1-trialkylsilylcyclopropenes



Mark S. Baird, Cynthia M. Dale and Juma'a R. Al Dulayymi

1375 **Asymmetric synthesis of homochiral *syn*- and *anti*-3-phenylisoserine derivatives: a practical strategy for the synthesis of the taxol C-13 side chain**

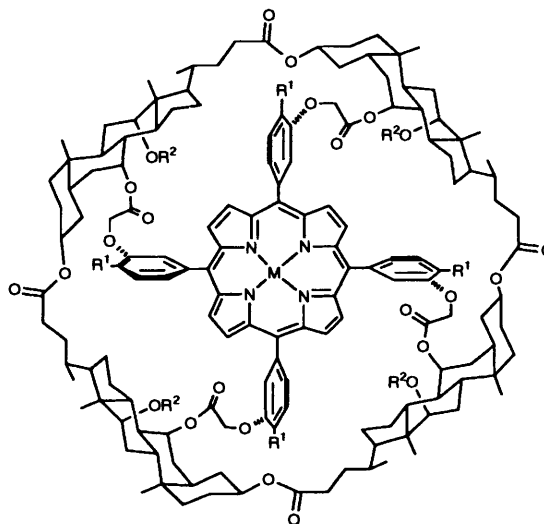
Mark E. Bunnage, Stephen G. Davies and Christopher J. Goodwin



A tandem lithium conjugate addition–electrophilic hydroxylation approach affords a practical strategy for the synthesis of all four stereoisomers of the taxol side chain

1377 **Concise synthesis of a porphyrin–cyclocholesterol molecular bowl**

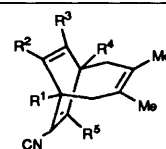
Lindsey G. Mackay, Richard P. Bonar-Law and Jeremy K. M. Sanders



Articles

1379 **Substituent-directed regioselectivity in the photocycloaddition of 2,3-dimethylbuta-1,3-diene to the benzene ring**

Andrew Gilbert and Owain Griffiths

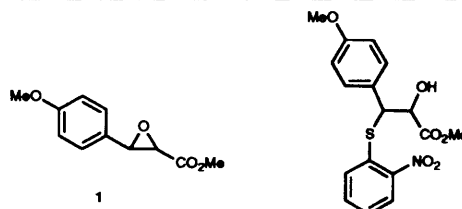


1 R_s = H, Me, OMe or F

Compounds of type 1 are readily accessible by the (4 + 4) photocycloaddition of 2,3-dimethylbuta-1,3-diene to benzonitrile derivatives

1385 **Lipase catalysis in the resolution of racemic intermediates of diltiazem synthesis in organic solvents**

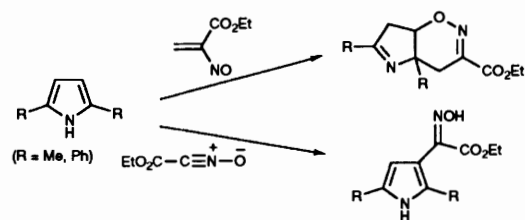
Liisa T. Kanerva and Oskari Sundholm



Compounds 1 and 2 have been resolved by lipase catalysis in organic solvents

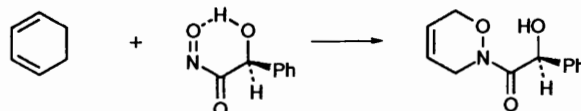
- 1391 **Reaction of pyrroles with ethyl 2-nitroso- and 2-azo-propenoates, and with ethyl cyanofornate *N*-oxide: a comparison of the reaction pathways**

Thomas L. Gilchrist and Américo Lemos



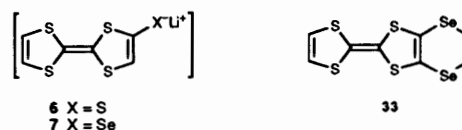
- 1397 **Asymmetric induction in the Diels–Alder reactions of α -hydroxy acyl nitroso compounds**

Gordon W. Kirby and Muhammad Nazeer



- 1403 **Chalcogenation of tetrathiafulvalene (TTF): synthesis of alkylthio-TTF and alkylseleno-TTF derivatives and X-ray crystal structure of ethylenediseleno-TTF (EDS-TTF)**

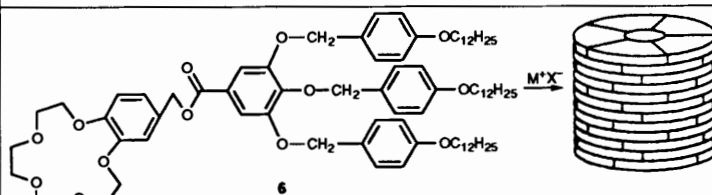
Adrian J. Moore, Martin R. Bryce, Graeme Cooke, Gary J. Marshall, Peter Skabara, Andrei S. Batsanov, Judith A. K. Howard and Stephen T. A. K. Daley



The preparation and reactions of the transient TTF-chalcogenate anions **6** and **7** are reported. The X-ray crystal structure of **33** has been determined

- 1411 **Molecular recognition directed self-assembly of supramolecular cylindrical channel-like architectures from 6,7,9,10,12,13,15,16-octahydro-1,4,7,10,13-pentaoxabenzocyclopentadecen-2-ylmethyl 3,4,5-tris(*p*-dodecyloxybenzyloxy)benzoate**

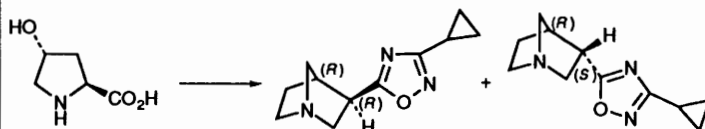
Virgil Percec, Gary Johansson, James Heck, Goran Ungar and Simon V. Batty



Upon complexation with alkali metal triflate salts, **6** self-assembles into a hexagonal columnar (Φ_h) mesophase *via* molecular recognition

- 1421 **Enantiospecific synthesis of the (4*R*)-1-azabicyclo[2.2.1]heptane ring system**

Peter G. Houghton, Guy R. Humphrey, Derek J. Kennedy, D. Craig Roberts and Stanley H. B. Wright



- 1425 **Preparation of 2,3-disubstituted indoles from indole-3-carboxylic acids and amides by α -deprotonation**

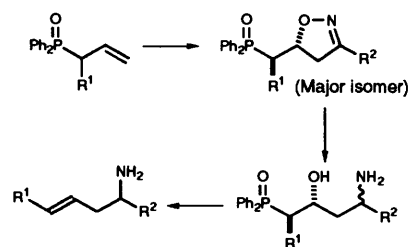
Cheryl D. Buttery, Richard G. Jones and David W. Knight



2-Lithioindoles ($R = \text{Me}, \text{MeOCH}_2$ and SO_2Ph) generally react smoothly with aldehydes, ketones and primary alkyl iodides

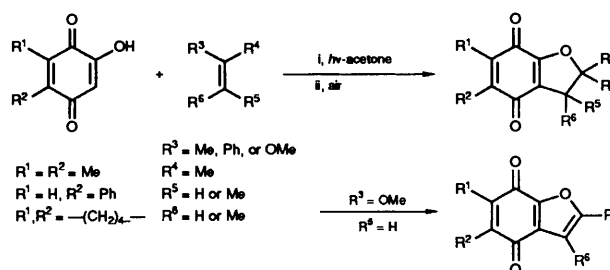
1433 A new method for stereoselective homoallylic amine synthesis

Susan K. Armstrong, Eric W. Collington, Julian G. Knight, Alan Naylor and Stuart Warren



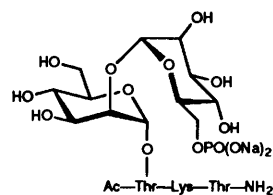
1449 Photoinduced molecular transformations. Part 141. New one-step general synthesis of benzofuran-4,7-diones by the regioselective (3 + 2) photoaddition of 2-hydroxy-1,4-benzoquinones with various alkenes

Kazuhiro Kobayashi, Yoshikazu Kanno and Hiroshi Suginome



1453 Synthesis of mannose 6-phosphate-containing disaccharide threonine building blocks and their use in solid-phase glycopeptide synthesis

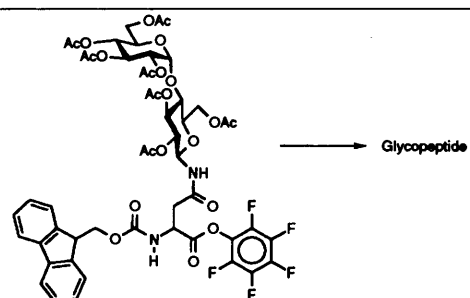
Mette K. Christensen, Morten Meldal and Klaus Bock



A method for the synthesis of glycopeptides containing phosphorylated carbohydrate moieties is described

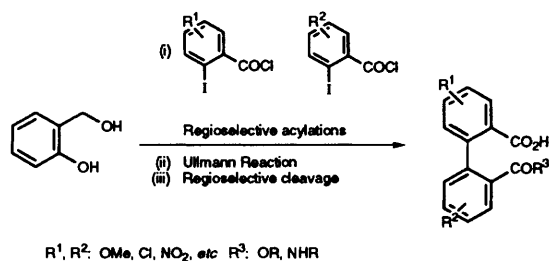
1461 Protected-mode synthesis of N-linked glycopeptides: single-step preparation of building blocks as peracetyl glycosylated N^εFmoc asparagine OPfp esters

Ida Christiansen-Brams, Morten Meldal and Klaus Bock



1473 A new synthesis of 2,2'-disubstituted unsymmetrical biphenyls based on the intramolecular Ullmann coupling reaction utilising salicyl alcohol as a template

Masami Takahashi, Tsuyosi Ogiku, Kimio Okamura, Tadamasu Da-te, Hiroshi Ohmizu, Kazuhiko Kondo and Tameo Iwasaki



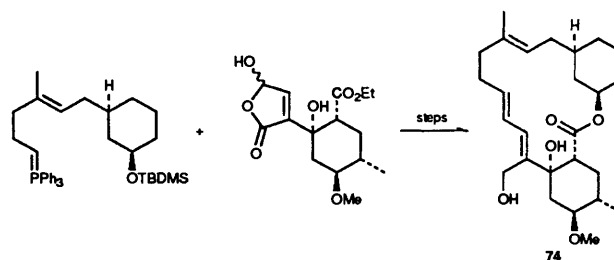
1481 Synthetic studies on tricyclospirodienones; model chemistry for novel mimics of steroid substrates

Owen Hares, David Hobbs-Mallyon and Donald A. Whiting



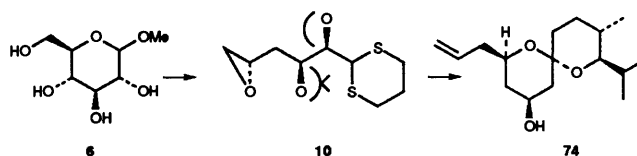
1493 **Milbemycin synthesis: synthesis of a macrocyclic analogue of non-aromatic β -milbemycins**

Mark J. Hughes and Eric J. Thomas



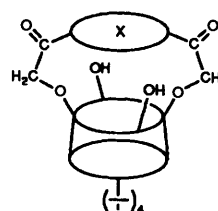
1507 **Milbemycin synthesis: asymmetric synthesis of spiroketals from methyl α -D-glucopyranoside**

Girish Khandekar, Gareth C. Robinson, Nicholas A. Stacey, Eric J. Thomas and Sunil Vather



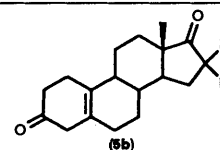
1521 **Synthesis and X-ray molecular structures of *p*-tert-butylcalix[4]arenes with diamide bridges spanning the 1,3-(distal) positions on the lower rim**

Volker Böhmer, George Ferguson, John F Gallagher, Alan J. Lough, M. Anthony McKervey, Evelyn Madigan, Mary B. Moran, James Phillips and Grahame Williams



1529 **Biosynthesis of estrogens. Estr-5(10)-ene-3,17-dione: isolation, metabolism and mechanistic implications**

H. Ranjith, W. Dharmaratne, James L. Kilgore, Esther Roitman, Cedric Shackleton and Eliahu Caspi



Compound **5b** was earlier identified as a metabolite of 13,17-dioxo-[16,16,19- 2 H $_3$]androst-4-en-19-al. Products of the subsequent metabolism of **5b** by placental aromatase have been identified. The ramifications of these observations are discussed in the context of the biosynthesis of estrogens and estrenes

Corrigendum

1537 **General synthesis of inositols by hydrolysis of conduritol epoxides obtained biocatalytically from halogenobenzenes: (+)-D-*chiro*-inositol, *allo*-inositol, *muco*-inositol and *neo*-inositol** Martin Mandel and Tomas Hudlicky

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