

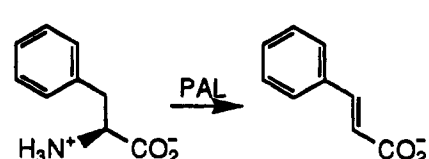
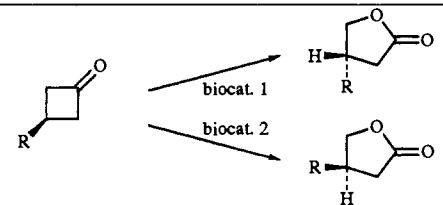
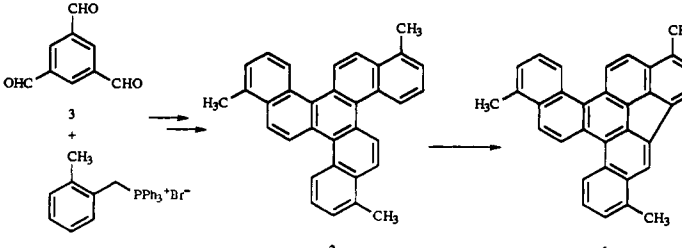
JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

Organic and Bio-organic Chemistry

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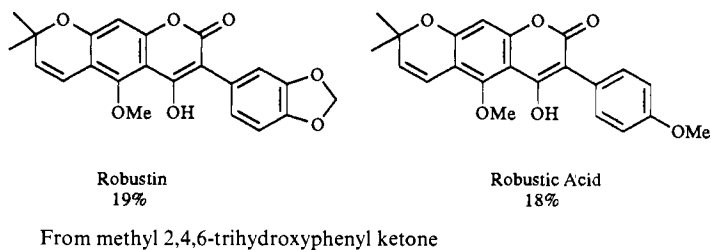
Perkin Communications

<p>2525 Use of cyclodextrins to limit product inhibition of (<i>S</i>)-phenylalanine ammonia lyase</p> <p>Christopher J. Easton, Jason B. Harper and Stephen F. Lincoln</p>	 <p>Cyclodextrins selectively sequester <i>trans</i>-cinnamate from solution to increase the efficiency of the reaction catalysed by PAL</p>
<p>2527 Oxidation of some prochiral 3-substituted cyclobutanones using monooxygenase enzymes: a single-step method for the synthesis of optically enriched 3-substituted γ-lactones</p> <p>René Gagnon, Gideon Grogan, Esther Groussain, Sandrine Pedragosa-Moreau, Paul F. Richardson, Stanley M. Roberts, Andrew J. Willetts, Véronique Alphand, Jacques Lebreton and Roland Furstoss</p>	 <p>R = Bu, Bu^t, CH₂Ar, CH₂OCH₂Ph; biocat. 1 = <i>A. calcoaceticus</i> NCIMB 9871, biocat. 2 = <i>Ps. putida</i> MO1 from NCIMB 10007</p> <p>Ring expansions proceed as shown giving products of variable optical purity. Substrate R = CH₂OCH₂Ph is exceptional giving (<i>S</i>)-lactone with biocat. 1</p>
<p>2529 Short synthetic approach towards the triindenotriphenylene (hemifullerene) system</p> <p>G. Mehta, G. V. Raghava Sharma, (the late) M. A. Krishna Kumar, T. V. Vedavyasa and E. D. Jemmis</p>	

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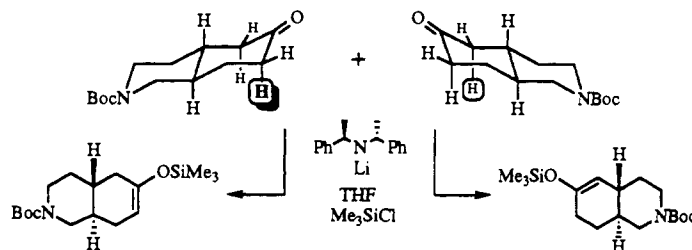
2531 Aryllead-mediated synthesis of linear 3-aryl-pyranocoumarins: synthesis of robustin and robustic acid

Dervilla M. X. Donnelly, David J. Molloy, John P. Reilly and Jean-Pierre Finet



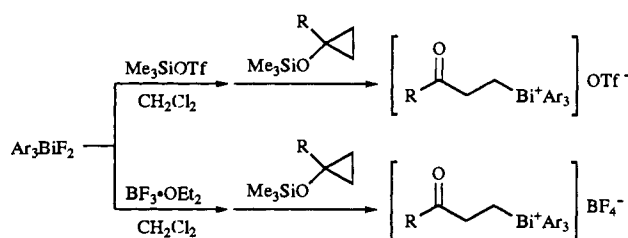
2535 Regio- and enantio-selective enolisations of cyclic ketones using chiral lithium amide bases

Kimberley Bambridge, Barry P. Clark and Nigel S. Simpkins



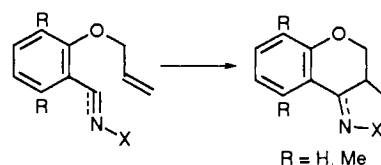
2543 Synthesis, X-ray structure, thermal stability and reactions of triaryl(3-oxoalkyl)-bismuthonium salts

Yoshihiro Matano, Nagao Azuma and Hitomi Suzuki



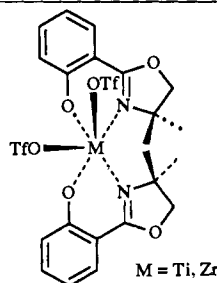
2551 Steric acceleration of intramolecular oxime and hydrazone cycloadditions

Jane E. Bishop, Katherine A. Flaxman, Barry S. Orlek, Peter G. Sammes and David J. Weller

Conditions for cycloadditions of oximes (X = OH/O) and hydrazones (X = NHA_r) are explored

2557 Bis(hydroxyphenyloxazolinato)-titanium(IV) and -zirconium(IV) triflates as novel transition metal-based Lewis acids

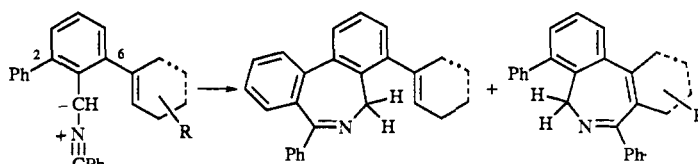
Pier Giorgio Cozzi and Carlo Floriani



A remarkable entry to a novel class of group 4 metal Lewis acids is based on the easily accessible achiral and chiral hydroxyphenyloxazoline ligands

- 2565 **Benzazepine formation by the 1,7-electrocyclisations of diene-conjugated nitrile ylides: studies on relative rates of cyclisation via intramolecular competition reactions**

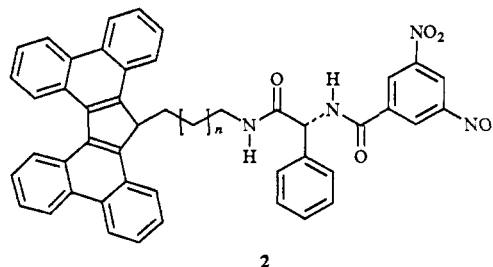
Kevin E. Cullen and John T. Sharp



Measurement of relative reactivity by intramolecular competition between a range of substituents at the 6-position and the unsubstituted phenyl group

- 2581 **Synthesis of 17*H*-tetrabenzo[*a,c,g,i*]fluorene derivatives as chiral selectors for enantiomeric separation by HPLC on porous graphitised carbon**

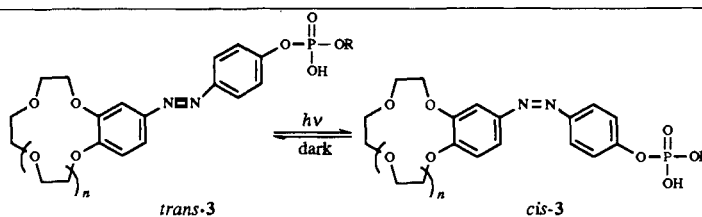
Jonathan K. Dutton, John H. Knox, Xavier Radisson, Harold J. Ritchie and Robert Ramage



The synthesis of amides **2** is described. These amides when adsorbed onto porous graphitised carbon afford chiral stationary phases

- 2589 **Synthesis of photoresponsive crown ethers having a phosphoric acid functional group as anionic cap and their selective complexing abilities toward alkali metal cations**

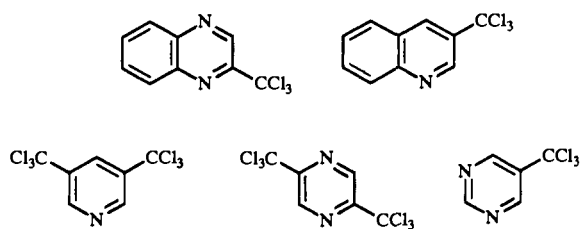
Sadatoshi Akabori, Yoshikazu Miura, Noriko Yotsumoto, Kiyoshi Uchida, Masaru Kitano and Yoichi Habata



New photoresponsive crown ethers connected to ionizable phosphoric acid moieties with an azobenzene skeleton have been synthesized and their complexing abilities estimated by measuring the *cis* to *trans* thermal isomerization rate in the presence of various alkali metal cations

- 2595 **Synthesis of some β -trichloromethyl-azines and -diazines**

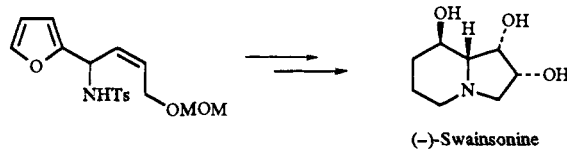
David Cartwright, John R. Ferguson, Thomas Giannopoulos, George Varvounis and Basil J. Wakefield



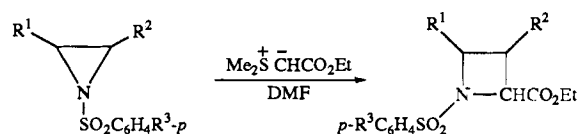
Syntheses of the above compounds are described

- 2599 **Asymmetric formal total synthesis of (-)-swainsonine**

Wei-Shan Zhou, Wen-Ge Xie, Zhi-Hui Lu and Xin-Fu Pan

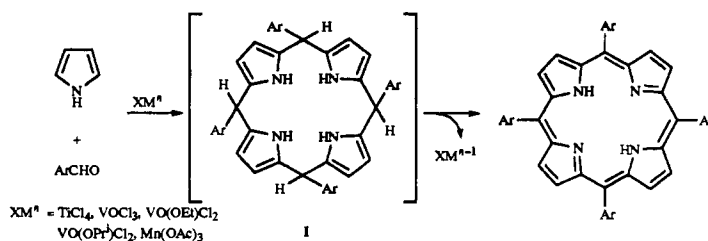


2605 Reaction of *N*-arylsulfonylaziridines with dimethylsulfoniummethoxycarbonyl methylide: regio- and stereo-selective synthesis of 1-arylsulfonyl-2-ethoxycarbonyl azetidines



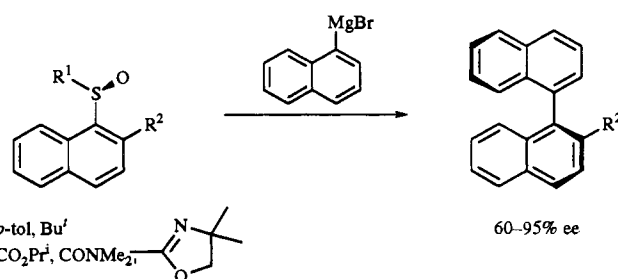
Upender K. Nadir and Anjali Arora

2611 Novel synthesis of 5,10,15,20-tetraarylporphyrins using high-valent transition metal salts



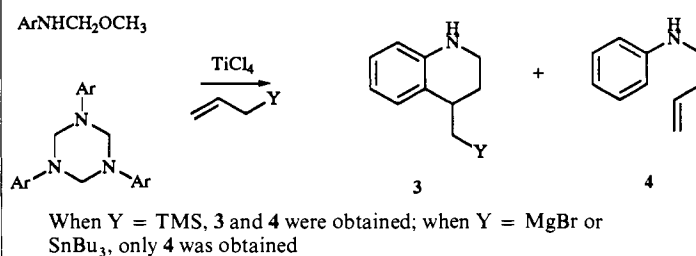
Ana Gradillas, Carmen del Campo, Jose V. Sinisterra and Emilio F. Llma

2615 Atropisomer-selective ligand-coupling reactions of sulfoxides. X-Ray molecular and crystal structures for 2-((2-(4-chlorophenyl)naphtho[1,2-*b*]thiophen-3-yl)amino)-2-methylpropan-1-ol, 2-(2-hydroxy-1,1-dimethylethyl)-2,3-dihydronaphtho[2,1-*d*]isothiazol-3-one and (*R*)-(+)-2-bromo-1-(*tert*-butylsulfinyl)-naphthalene



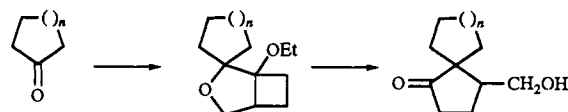
Robert W. Baker, David C. R. Hockless, Geoffrey R. Pocock, Melvyn V. Sargent, Brian W. Skelton, Alexander N. Sobolev, Edi Twiss (née Stanojevic) and Allan H. White

2631 Lewis acid induced *N*-methyleneamine equivalents. Part 3. Addition of allyl nucleophiles to TiCl_4 -induced *N*-methyleneamine equivalents: synthesis of 1,2,3,4-tetrahydroquinolines and homoallylic anilines



Hyun-Joon Ha, Young-Gil Ahn and Jung-Kyoon Chon

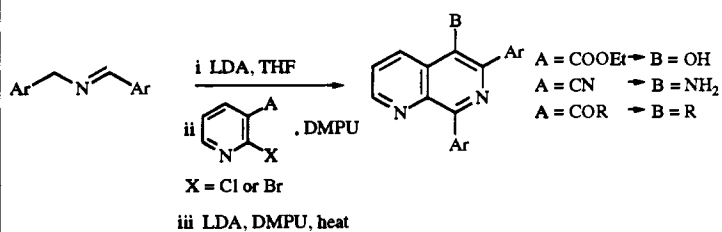
2635 Photocycloaddition-cyclobutane rearrangement to spiro cyclopentanones: application in a formal synthesis of (\pm)- α -cedrene



Debasis Patra and Subrata Ghosh

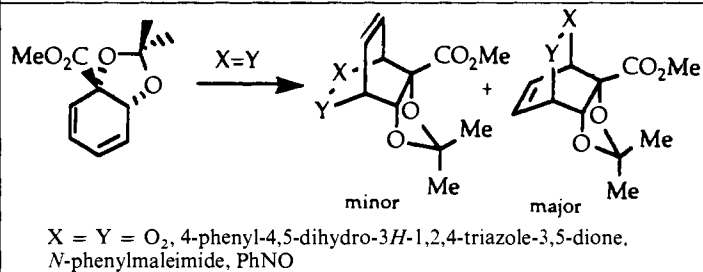
2643 **2-Azaallyl anions: key models for the elaboration of alkyl-, amino- and hydroxy-1,7-naphthyridine derivatives**

Axel Couture, Pierre Grandclaudon, Cristian Simion and Patrice Woisel



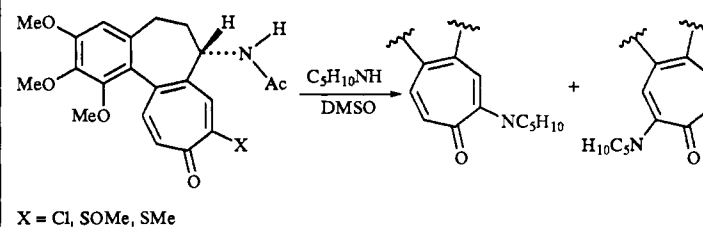
2647 **Synthetic application of biotransformations: absolute stereochemistry and Diels–Alder reactions of the (1*S*,2*R*)-1,2-dihydroxycyclohexa-3,5-diene-1-carboxylic acid from *Pseudomonas putida***

Gareth N. Jenkins, Douglas W. Ribbons, David A. Widdowson, Alexandra M. Z. Slawin and David J. Williams



2657 ***ipso*- vs. *tele*-Nucleophilic substitution by piperidine on isocolchicidic and colchicidic bearing an α -leaving group**

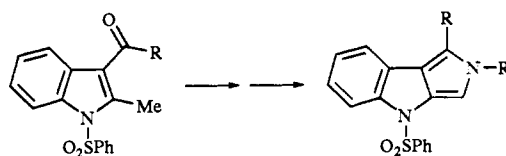
Marino Cavazza and Francesco Pietra



Colchicidic carrying SMe, SMe or Cl at C-9 undergo C-11 *tele* substitution by piperidine in competition with *ipso* substitution

2663 **Synthesis and cycloaddition of 2,4-dihydropyrrolo[3,4-*b*]indoles**

Arumugasamy Jeevanandam and Panayencheri C. Srinivasan



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An asymmetric total synthesis of (+)-(3*R*,4*S*,5*R*,7*S*)-neoclausenamide **J.-Q. Wang and W.-S. Tian**

A potential intermediate, (±)-diacetyl-3,3a-dihydro-3 β -phenylseleno-seco-B-norlycorin-5-one for the synthesis of the *Amaryllidaceae* alkaloid lycorine: formal and total syntheses of (±)lycorine

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Organozinc reagents in synthesis: the facile generation of 2-(trialkylsilyl)allylzinc from 2-bromo-1-trimethylsilylprop-2-ene **P.J. Parsons, J. Eshelby and P.J. Crowley**

The decomposition of 2-dialkylaminobenzoyl azides to yield isocyanates and 1,1-dialkylindazol-3-ylidene oxides **N.M. Waldron and M. Raza**

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Synthesis of substituted acetylenes from the reaction of acetylene gas with aryl iodides under palladium-copper catalysis **N.G. Kundu and M. Pal**

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New methodology for the synthesis of unsaturated 8-, 9- and 10-membered lactams **A.B. Holmes, P.A. Evans, R.P. McGeary, A. Nadin, K. Russell, P.J. O'Hanlon and N.D. Pearson**

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Synthesis and solubility properties of C₆₀ derivatives bearing carboxy groups **H. Tomioka and K. Yamamoto**

Asymmetric total synthesis of (-)-podophyllotoxin **D.W. Jones and E.J. Bush**

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Methyl 3-(*N*-triphenylphosphoranylidene)aminopyrazine-2-carboxylate: synthesis, crystal structure and use in pteridin-4(3*H*)-one synthesis **T. Okawa, S. Eguchi and A. Kakehi**

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