

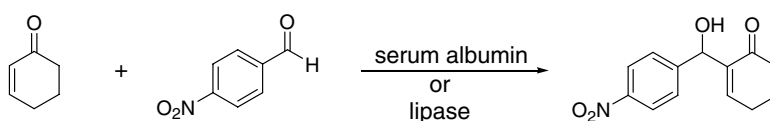
Contents

COMMUNICATIONS

Enzyme promiscuity: first protein-catalyzed Morita–Baylis–Hillman reaction

pp 1679–1681

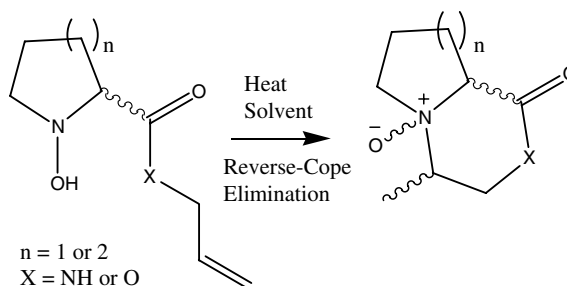
Manfred T. Reetz,* Régis Mondière and José Daniel Carballeira



The synthesis of functionalised chiral bicyclic lactam and lactone N-oxides using a tandem Cope elimination/reverse Cope elimination protocol

pp 1683–1686

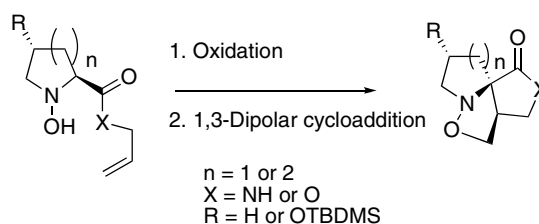
Gemma L. Ellis, Ian A. O’Neil,* V. Elena Ramos, Ed Cleator, S. Barret Kalindjian, Alan P. Chorlton and David J. Tapolczay



The diastereoselective synthesis of functionalised spirocyclic lactams and lactones using a Cope elimination/intramolecular nitron cycloaddition strategy

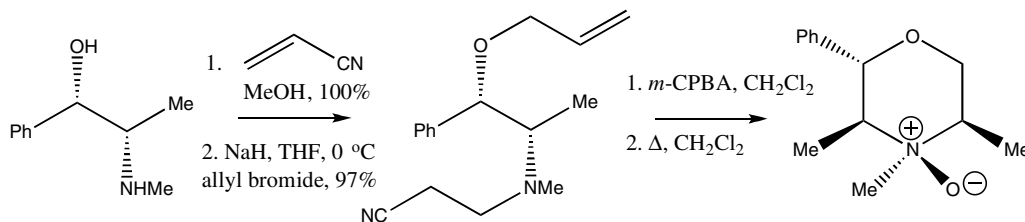
pp 1687–1690

Gemma L. Ellis, Ian A. O’Neil,* V. Elena Ramos, S. Barret Kalindjian, Alan P. Chorlton and David J. Tapolczay



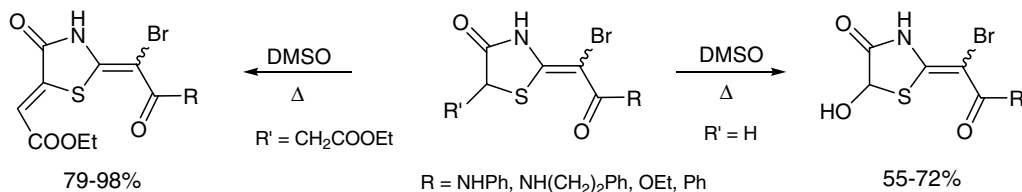
The synthesis of highly functionalized morpholine N-oxides from ephedrine and pseudoephedrine utilizing a tandem Cope elimination/reverse Cope elimination protocol pp 1691–1694

Neil Henry and Ian A. O'Neil*



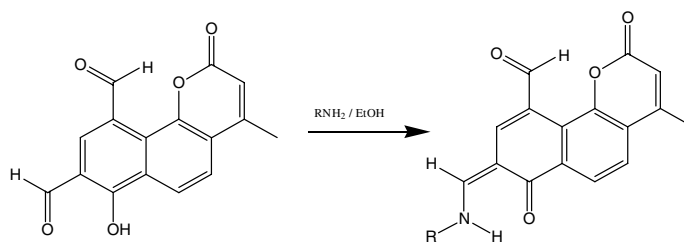
Carbon–bromine cleavage by dimethyl sulfoxide: the key step of C(5) functionalization of push–pull 2-alkylidene-4-oxothiazolidine vinyl bromides pp 1695–1698

Marija Baranac Stojanović* and Rade Marković



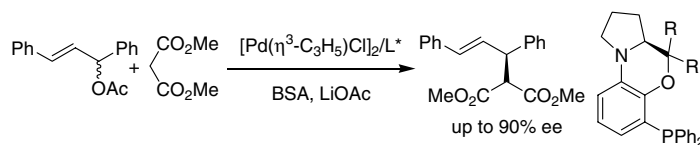
Highly efficient and regioselective synthesis of keto-enamine Schiff bases of 7-hydroxy-4-methyl-2-oxo-2H-benzo[h]chromene-8,10-dicarbaldehyde and 1-hydroxynaphthalene-2,4-dicarbaldehyde pp 1699–1702

Koneni V. Sashidhara,* Jammikuntla N. Rosaiah and Tadigoppula Narender*



Chiral P,O-ligands derived from N,O-phenylene prolinols for palladium-catalyzed asymmetric allylic alkylation pp 1703–1706

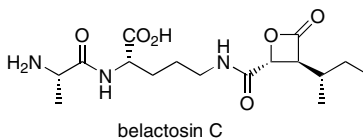
Biao Jiang* and Zuo-Gang Huang



Stereoselective synthesis of belactosin C and its derivatives using a catalytic proline catalyzed crossed-aldol reaction

pp 1707–1709

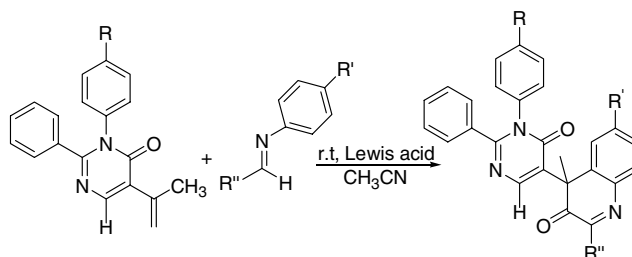
G. Kumaraswamy* and B. Markondaiah

**An unprecedented methylene oxidation accompanying the aza Diels–Alder reactions of acyclic unactivated alkenes: synthesis of novel quinolin-3-one substituted pyrimidinone derivatives**

pp 1711–1713

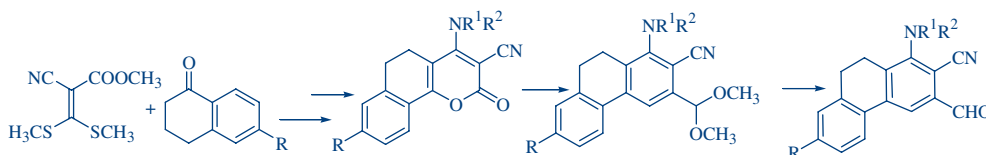
Chander Mohan, Gaurav Bhargava, A. P. S. Pannu and Mohinder P. Mahajan*

The regioselective aza Diels–Alder reactions of isopropenyl pyrimidinone with *N*-arylimines in the presence of Y/Sc triflates as catalyst are described. An unprecedented oxidation of methylene to carbonyl occurred resulting in exclusive formation of 6-oxo-1,6-dihydropyrimidin-5-yl-4*H*-quinolin-3-one derivatives.

**An efficient and versatile route to the synthesis of 9,10-dihydro-3-formylphenanthrenes**

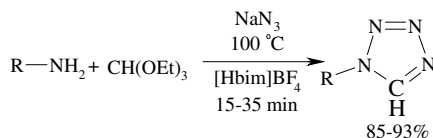
pp 1715–1719

Ramendra Pratap and Vishnu Ji Ram*

**Efficient and rapid synthesis of 1-substituted-1*H*-1,2,3,4-tetrazoles in the acidic ionic liquid 1-*n*-butylimidazolium tetrafluoroborate**

pp 1721–1724

Taterao M. Potewar, Shafi A. Siddiqui, Rajgopal J. Lahoti and Kumar V. Srinivasan*



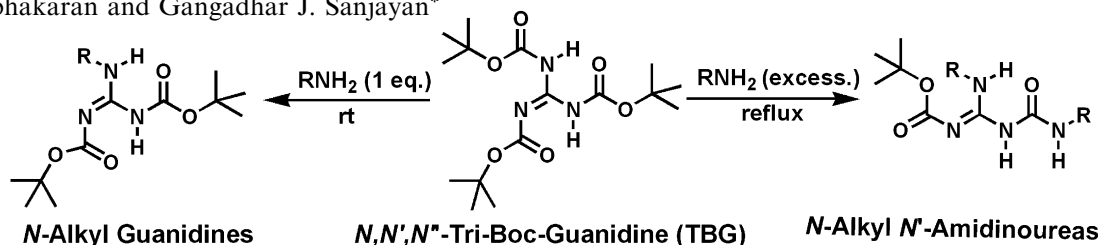
An efficient synthesis leading directly to 1-substituted-1*H*-1,2,3,4-tetrazoles from easily available amines and sodium azide in stoichiometric proportions using a room-temperature ionic liquid, namely, 1-*n*-butylimidazolium tetrafluoroborate in excellent yields is described. The inherent Brønsted acidity and high polarity of the IL results in a significant enhancement in the reaction rate.



***N,N,N'*-Tri-Boc-guanidine (TBG): a common starting material for both *N*-alkyl guanidines and amidinoureas**

pp 1725–1727

Panchami Prabhakaran and Gangadhar J. Sanjayan*

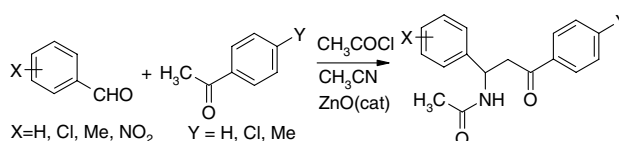


N,N,N'-Tri-Boc-guanidine (TBG) has been shown to be an excellent, readily available, common starting material for the synthesis of various *N*-alkyl guanidines as well as *N*-alkyl-*N'*-substituted amidinoureas by simple manipulation of the reaction conditions.

**Zinc oxide as an economical and efficient catalyst for the one-pot preparation of β -acetamido ketones via a four-component condensation reaction**

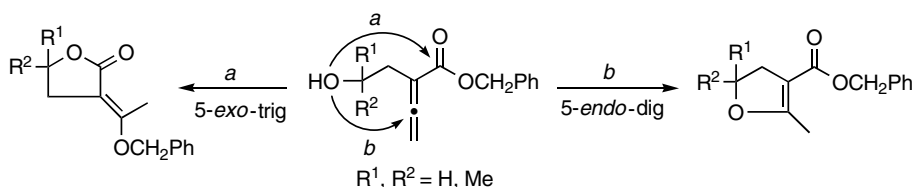
pp 1729–1734

Malek Taher Maghsoodlou,* Asadollah Hassankhani, Hamid Reza Shaterian, Sayyed Mostafa Habibi-Khorasani and Elaheh Mosaddegh

**Studies of ring-closing mode of 4-hydroxy-2-vinylidenebutanoates: 5-*exo*-trig versus 5-*endo*-dig**

pp 1735–1738

Shinji Kitagaki, Daisuke Shibata and Chisato Mukai*

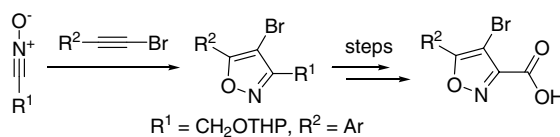


The ring-closing mode (5-*exo*-trig vs 5-*endo*-dig) of benzyl 4-hydroxy-2-vinylidenebutanoates could be precisely controlled in a highly selective manner by the proper choice of conditions (solvent and base).

A novel and convenient synthesis of 5-aryl-4-bromo-3-carboxyisoxazoles: useful intermediates for the solid-phase synthesis of 4,5-diarylisoxazoles

pp 1739–1743

Jeffrey J. Letourneau,* Christopher Riviello and Michael H. J. Ohlmeyer

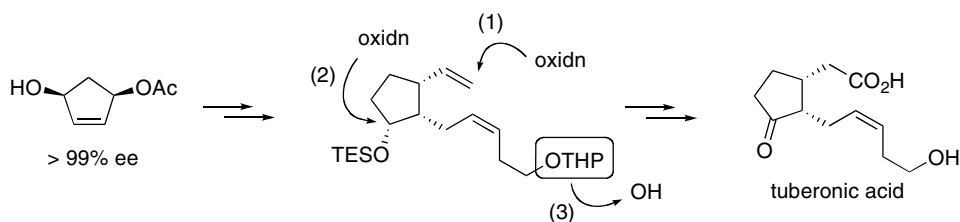


A novel synthesis of 5-aryl-4-bromo-3-carboxyisoxazoles employing a [3+2] cycloaddition of a nitrile N-oxide to 2-aryl-1-bromoalkynes is described, and the utility of these 5-aryl-4-bromo-3-carboxyisoxazoles for the solid-phase synthesis of 4,5-diarylisoxazoles is demonstrated.

First total synthesis of tuberonic acid

pp 1745–1748

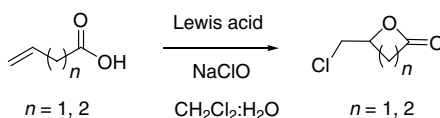
Hisato Nonaka, Yong-Gang Wang and Yuichi Kobayashi*



Synthesis of chlorinated β - and γ -lactones from unsaturated acids with sodium hypochlorite and Lewis acids

pp 1749–1752

José A. López-López, Francisco M. Guerra, F. Javier Moreno-Dorado, Zacarías D. Jorge and Guillermo M. Massanet*



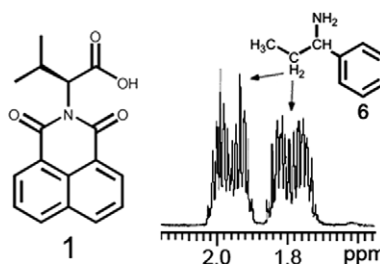
The direct synthesis of several β - and γ -lactones used as electrophilic sources of chlorine, sodium hypochlorite and a Lewis acid is described. The scope and limitations of the method are discussed.

Novel chiral solvating agents derived from natural amino acid: enantiodiscrimination for chiral α -arylalkylamines

pp 1753–1756

Zengwei Luo, Baohua Li, Xiantao Fang, Kai Hu, Xiaojun Wu and Enqin Fu*

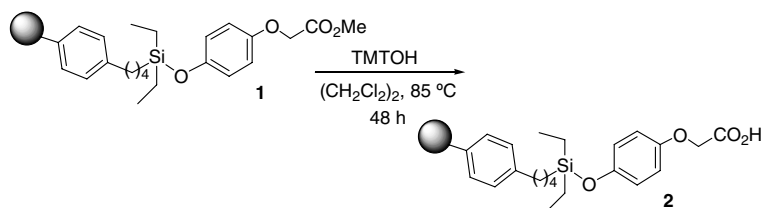
Benzo[de]isoquinoline 1,3-dione amino acids **1** and **2** derived from natural amino acids are efficient chiral solvating agents toward chiral α -arylalkylamine leading to clear baseline separation of multiple proton signals of the enantiomers. The mechanism for the chiral recognition of **1** and **2** toward **3** has been explored by ^1H NMR titration and intermolecular NOE experiment.



Mild, efficient and selective hydrolysis of polymer-supported methyl esters using trimethyltin hydroxide

pp 1757–1760

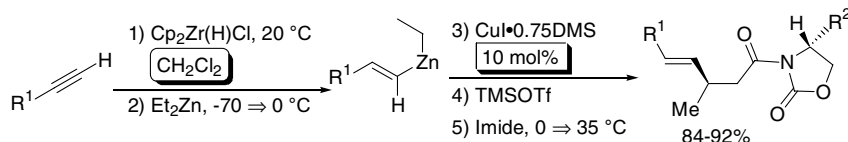
Luciana Méndez, Sebastián A. Testero and Ernesto G. Mata*



Copper(I) iodide dimethyl sulfide catalyzed 1,4-addition of alkenyl groups from alkenyl-alkylzincate reagents

pp 1761–1765

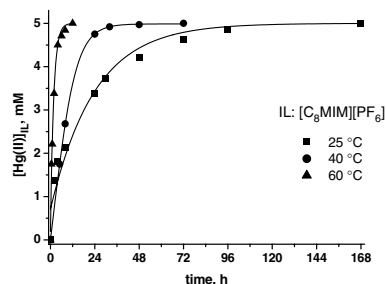
Amer El-Batta and Mikael Bergdahl*


Mercury extraction by ionic liquids: temperature and alkyl chain length effect

pp 1767–1769

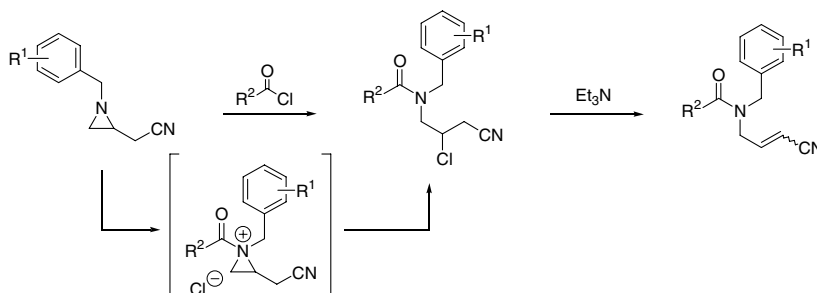
Raimondo Germani, Maria Vincenza Mancini, Gianfranco Savelli* and Nicoletta Spreti

Biphasic systems water/ionic liquids were employed to gain the complete partition of Hg(II) ions in $[C_n\text{MIM}][\text{PF}_6]$ in the absence of chelating agents; extraction properties turned out to be dependent both on the working temperature and on the alkyl chain length on the imidazolium ring of the ionic liquid.


Ring opening of 2-(cyanomethyl)aziridines by acid chlorides: synthesis of novel 4-amino-2-butenenitrile derivatives through intermediate aziridinium salts

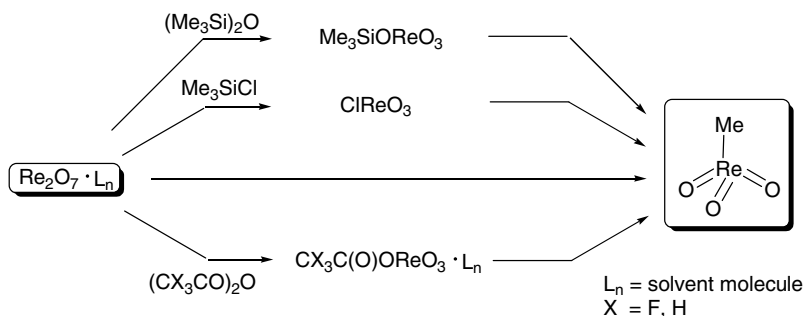
pp 1771–1774

Matthias D'hooghe, Karel Vervisch, Andries Van Nieuwenhove and Norbert De Kimpe*


Methylrhenium oxides

pp 1775–1779

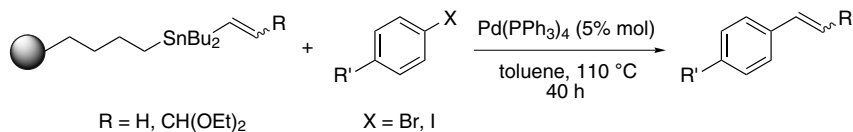
Alexandra M. J. Rost, Wolfgang A. Herrmann* and Fritz E. Kühn*



Evaluation of polymer-supported vinyltin reagents in the Stille cross-coupling reaction

pp 1781–1785

Jean-Mathieu Chrétien, Aurélie Mallinger, Françoise Zammattio,* Erwan Le Grogneq, Michaël Paris, Gilles Montavon and Jean-Paul Quintard*

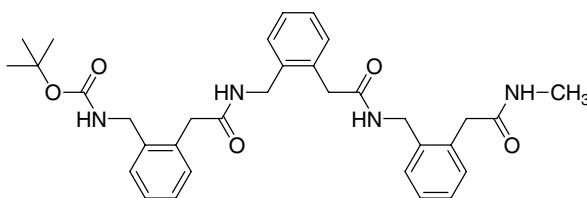


The synthesis of two new polymer-supported vinyltin reagents and their use in the Stille cross-coupling reaction is reported in a concept of green chemistry.

Molecular modeling study for a novel structured oligomer subunit selection: the example of 2-aminomethyl-phenyl-acetic acid

pp 1787–1790

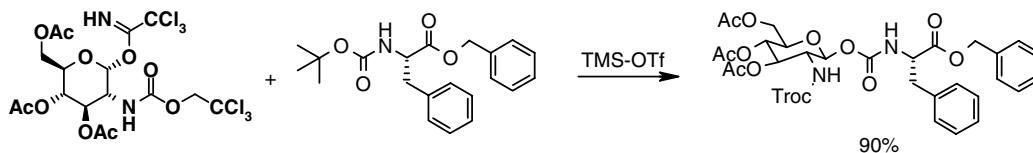
Nicolas Raynal, Marie-Christine Averlant-Petit, Gilbert Bergé, Claude Didierjean, Michel Marraud, Christiane Duru, Jean Martinez and Muriel Amblard*



Glycosylative transcarbamylation: efficient transformation of *tert*-butyl carbamates to novel glycoconjugates

pp 1791–1794

Kenneth J. Henry, Jr.* and Jayana P. Lineswala



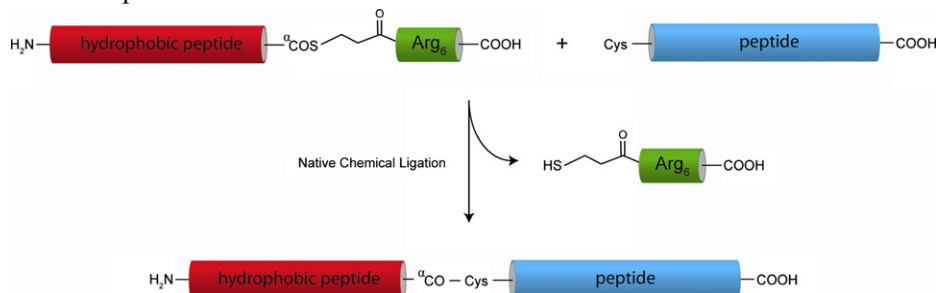
A wide variety of *tert*-butyl carbamates are converted to the corresponding 2-deoxy-2-glucosaminyl carbamates in a good yield using an *N*-trichloroethoxycarbonyl-glucosaminyl trichloroacetimidate donor and trimethylsilyl triflate.



Towards the total chemical synthesis of integral membrane proteins: a general method for the synthesis of hydrophobic peptide- α -thioester building blocks

pp 1795–1799

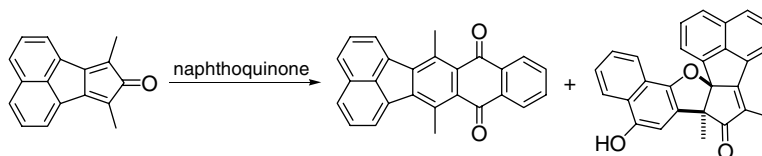
Erik C. B. Johnson and Stephen B. H. Kent*



Products of the addition of 1,4-naphthoquinone to an acecycloane

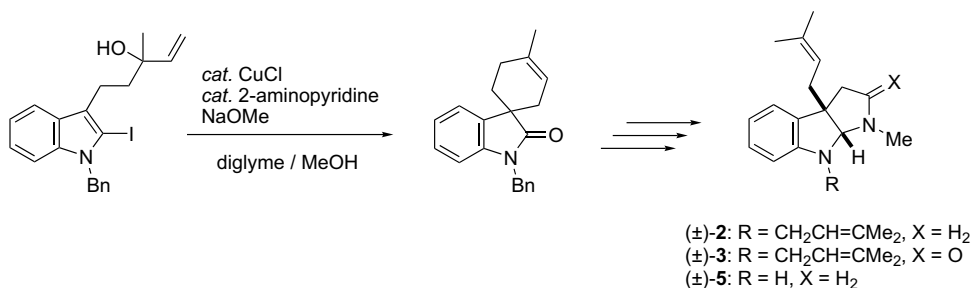
pp 1801–1803

Monica P. Bubenik, John N. Bridson, David O. Miller and D. Jean Burnell*

**Total synthesis of (±)-debromoflustramine B and E and (±)-debromoflustramide B based on one-pot intramolecular Ullmann coupling and Claisen rearrangement**

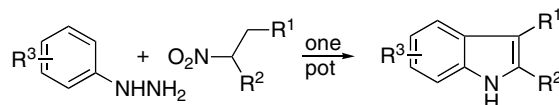
pp 1805–1808

Hiroshi Miyamoto, Yoichiro Okawa, Atsuo Nakazaki and Susumu Kobayashi*

**One-pot synthesis of polysubstituted indoles from aliphatic nitro compounds under mild conditions**

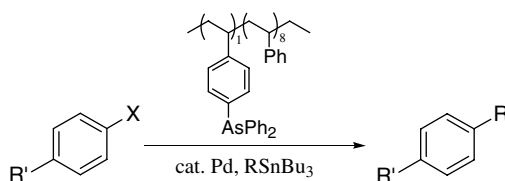
pp 1809–1811

Christopher A. Simoneau, Alexis M. Strohl and Bruce Ganem*

**The application of non-cross-linked polystyrene-supported triphenylarsine in Stille coupling reactions**

pp 1813–1816

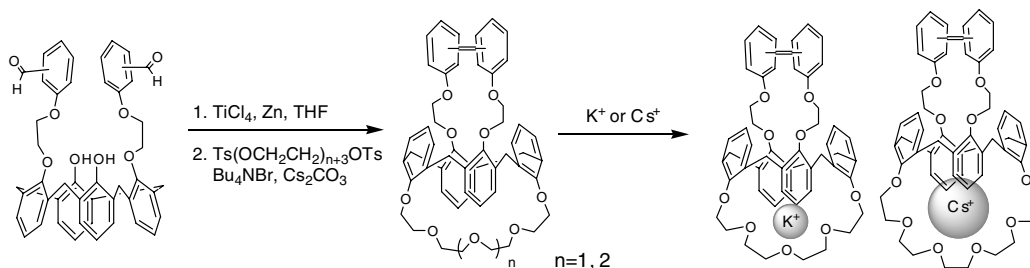
Kelvin Chi Yin Lau and Pauline Chiu*



Stilbene-bridged 1,3-alternate calix[4]arene crown ether for selective alkali ion extraction

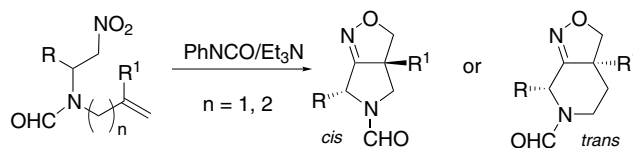
pp 1817–1821

Arisa Jaiyu, Rojrit Rojanathanes and Mongkol Sukwattanasinitt*


Stereoselective intramolecular 1,3-dipolar nitrile oxide cycloaddition reaction of *N*-formyl- β -nitroamides

pp 1823–1825

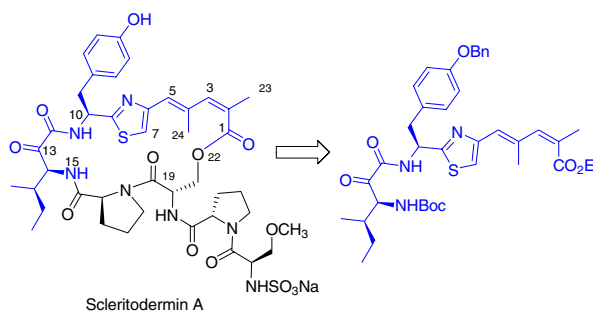
Ayako Kadowaki, Yoshiaki Nagata, Hidemitsu Uno and Akio Kamimura*


Toward the total synthesis of Scleritodermin A: preparation of the C_1 – N_{15} fragment

pp 1827–1830

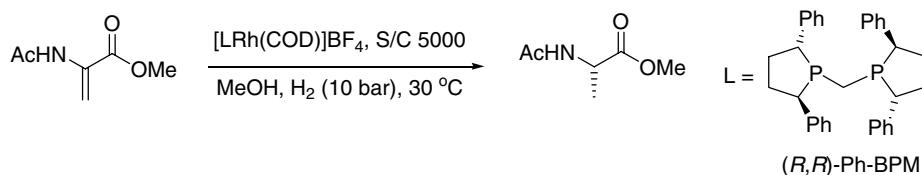
Diver Sellanes, Eduardo Manta and Gloria Serra*

The synthesis of the C_1 – N_{15} fragment of the marine natural product Scleritodermin A has been accomplished through a short and stereocontrolled sequence.


1,2-Bis(2,5-diphenylphospholano)methane, a new ligand for asymmetric hydrogenation

pp 1831–1834

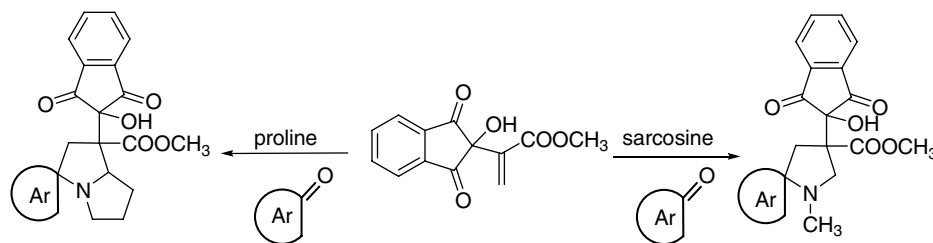
Mark Jackson* and Ian C. Lennon



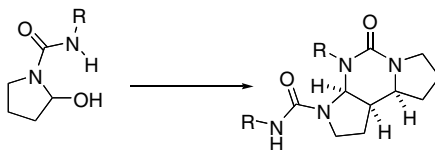
The synthesis of 1,2-bis(2,5-diphenylphospholano)methane (Ph-BPM) and its applications in asymmetric hydrogenation are described.

Solvent-free microwave-assisted conversion of Baylis–Hillman adducts of ninhydrin into functionalized spiropyrrolidines/pyrrolizidines through 1,3-dipolar cycloaddition pp 1835–1839

Ekambaram Ramesh, Murugavel Kathiresan and Raghavachary Raghunathan*


A biogenetically inspired heterodimerization approach to the synthesis of the core structure of the alkaloid fissoldhimine pp 1841–1844

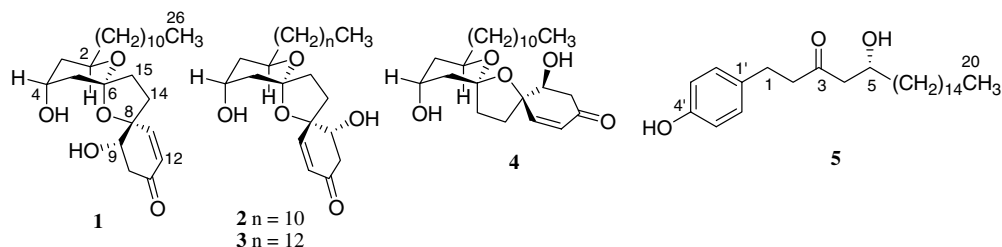
Heather Twin, Wendy W.-H. Wen, David A. Powell, Alan J. Lough and Robert A. Batey*


Eco-friendly synthesis of imines by ultrasound irradiation pp 1845–1848

Karla P. Guzen, Alexandre S. Guarezemini, Aline T. G. Órfão, Rodrigo Cella, Claudio M. P. Pereira and Hélio A. Stefani*


Dioxadispiroketal compounds and a potential acyclic precursor from *Amomum aculeatum* pp 1849–1853

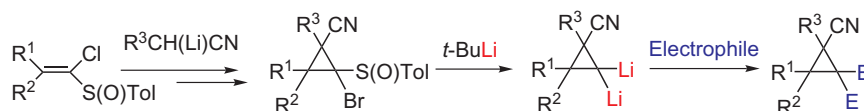
Angela A. Salim, Bao-Ning Su, Hee-Byung Chai, Soedarsono Riswan, Leonardus B. S. Kardono, Agus Ruskandi, Norman R. Farnsworth, Steven M. Swanson and A. Douglas Kinghorn*



The first example of 2,2-dilithiocyanocyclopropanes: generation from 2-bromo-2-sulfinylcyanocyclopropanes with *tert*-butyllithium, property, and a synthesis of fully substituted cyanocyclopropanes

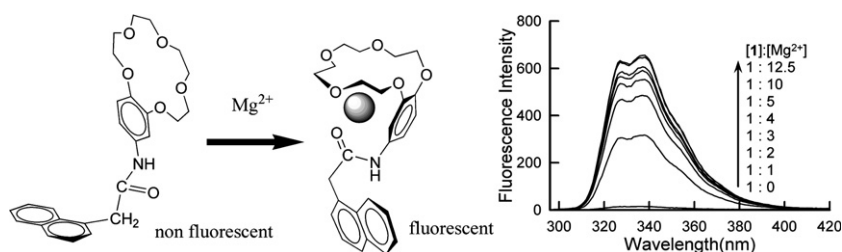
pp 1855–1858

Iori Fukushima, Youhei Gouda and Tsuyoshi Satoh*


Novel Mg²⁺-responsive fluorescent chemosensor based on benzo-15-crown-5 possessing 1-naphthaleneacetamide moiety

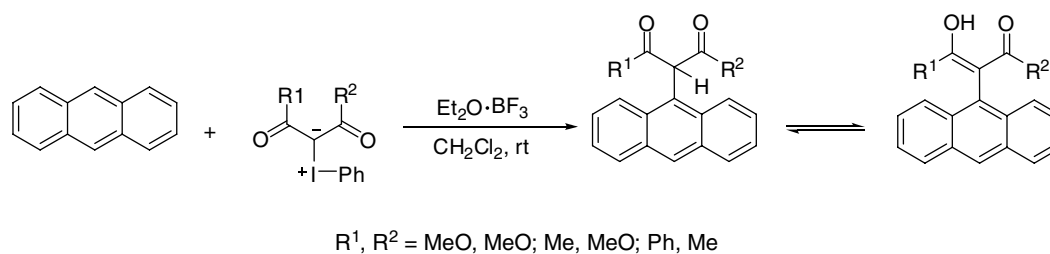
pp 1859–1861

Hiroya Hama, Tatsuya Morozumi and Hiroshi Nakamura*


Oxidative-substitution reactions of electron-rich aromatic compounds with BF₃-activated iodonium ylides

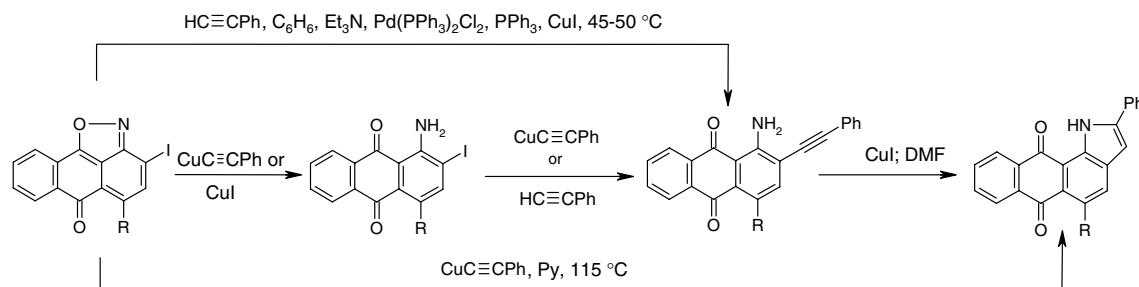
pp 1863–1866

Sanjay Telu, Semih Durmus and Gerald F. Koser*


Unmasking of aminoanthroquinone moiety through a ring opening in the presence of copper salts and a subsequent cross-coupling/recyclization cascade

pp 1867–1870

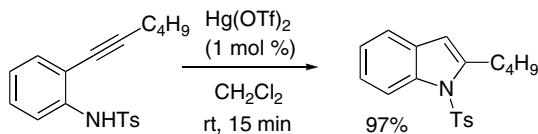
S. F. Vasilevsky,* L. M. Gornostaev, A. A. Stepanov, E. V. Arnold and I. V. Alabugin*



Hg(OTf)₂-Catalyzed cycloisomerization of 2-ethynylaniline derivatives leading to indoles

pp 1871–1874

Takahiro Kurisaki, Tomoko Naniwa, Hirofumi Yamamoto, Hiroshi Imagawa and Mugio Nishizawa*

**OTHER CONTENTS**

Corrigendum

p 1875

Calendar

pp I–III

*Corresponding author

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Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®]



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