

Tetrahedron Letters Vol. 45, No. 10, 2004

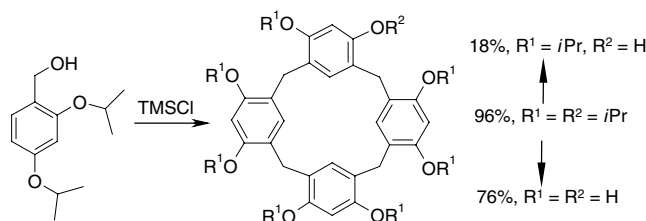
Contents

COMMUNICATIONS

A novel synthesis of parent resorc[4]arene and its partial alkyl ethers

pp 2043–2046

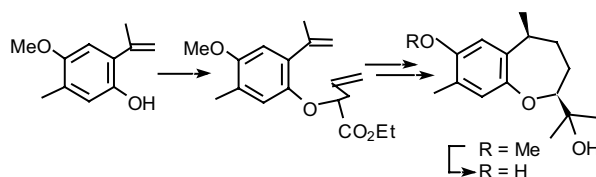
Jan Stursa, Hana Dvorakova, Jan Smidrkal, Hana Petrickova and Jitka Moravcova*



A short, rapid synthesis of heliannuol D, an allelochemical from *Helianthus annuus* employing ring-closing metathesis

pp 2047–2048

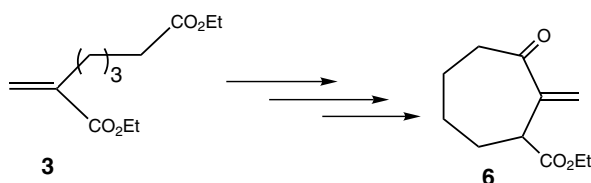
Subir K. Sabui and Ramanathapuram V. Venkateswaran*



First synthesis of (±)-bis-homosarkomycin ethyl ester

pp 2049–2050

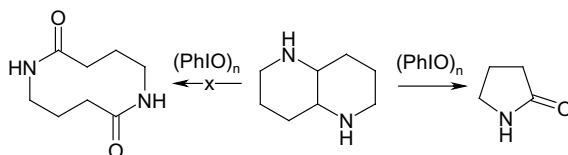
Ali Samarat, Yannick Landais and Hassen Amri*



Comments on ‘Unusual oxidative rearrangement of 1,5-diazadecalin’

pp 2051–2052

Tammo Winkler*

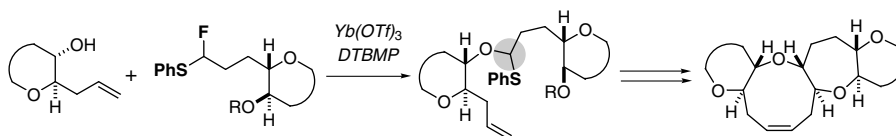


NMR data show that 2-pyrrolidinone is formed in the above reaction and not the macrocyclic bislactam.

A new synthesis of key intermediates for the assembly of polycyclic ethers: Yb(OTf)₃-promoted formation of *O,S*-acetals from α -fluorosulfides and alcohols

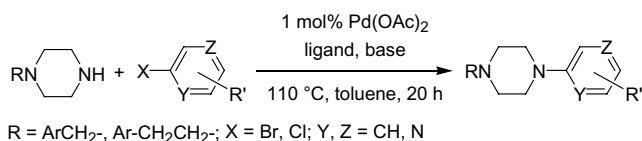
pp 2053–2056

Masayuki Inoue,* Shuji Yamashita and Masahiro Hirama*


A short and efficient synthesis of *N*-aryl- and *N*-heteroaryl-*N'*-(arylkyl)piperazines

pp 2057–2061

Dirk Michalik, Kamal Kumar, Alexander Zapf, Annegret Tillack, Michael Arlt, Timo Heinrich and Matthias Beller*

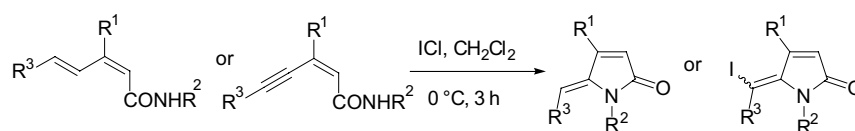


The synthesis of *N*-aryl- and *N*-heteroaryl-*N'*-(arylkyl)piperazines using palladium-catalyzed amination reactions is presented. Applying an automated organic synthesizer a small library of potentially CNS active molecules was efficiently prepared.

Regioselective synthesis of 5-alkylidene and 5-(iodoalkylidene)-pyrrol-2(5*H*)-ones by halolactamisation of (2*Z*,4*E*)-dienamides and (*Z*)-alk-2-en-4-ynamides

pp 2063–2066

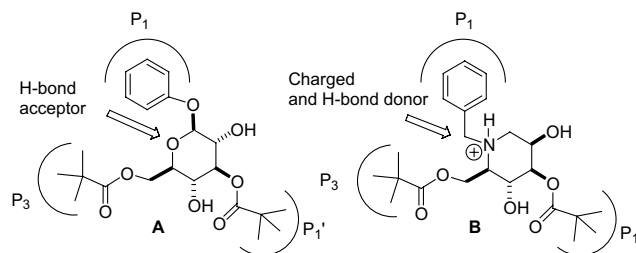
Khalil Cherry, Jérôme Thibonnet, Alain Duchêne, Jean-Luc Parrain and Mohamed Abarbri*



Synthesis of an iminosugar based peptidomimetic analogue

pp 2067–2069

Florence Chery and Paul V. Murphy*

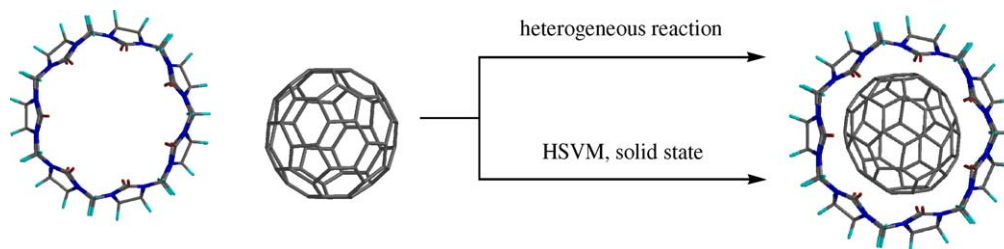


The synthesis of iminosugar derivative **B** as an analogue of HIV-1 protease inhibitor **A** is described.

Solvent-free self-assembly of C₆₀ and cucurbit[7]uril using high-speed vibration milling

pp 2071–2073

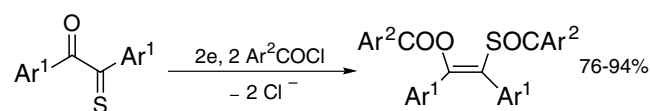
Friederike Constabel and Kurt E. Geckeler*



Electrochemical reduction of monothiobenzils in the presence of aroyl chlorides. First synthesis of (Z)-α-benzoyloxy-β-benzoylthiostilbenes

pp 2075–2076

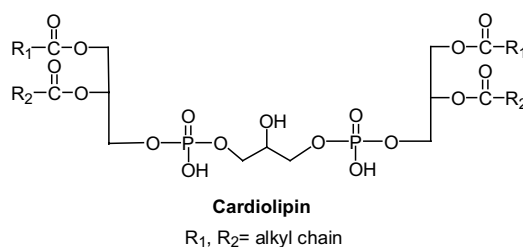
Antonio Guirado,* Enrique LópezSánchez, Raquel Andreu and Andrés Zapata



Phosphoramidite approach for the synthesis of cardiolipin

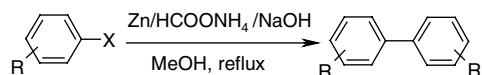
pp 2077–2079

U. Murali Krishna, Moghis U. Ahmad and Imran Ahmad*



Facile synthesis of symmetrical functionalized biaryls from aryl halides catalyzed by commercial zinc dust using ammonium formate pp 2081–2084

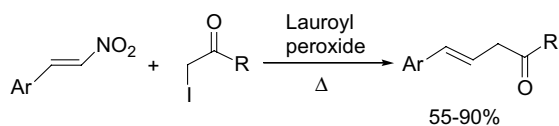
K. Abiraj, G. R. Srinivasa and D. Channe Gowda*



Biaryls containing either electron-donating or electron-withdrawing groups can be synthesized by the reductive homocoupling of aryl halides using commercial zinc dust and ammonium formate in methanol.

Substitution of β -nitrostyrenes by electrophilic carbon-centered radicals pp 2085–2088

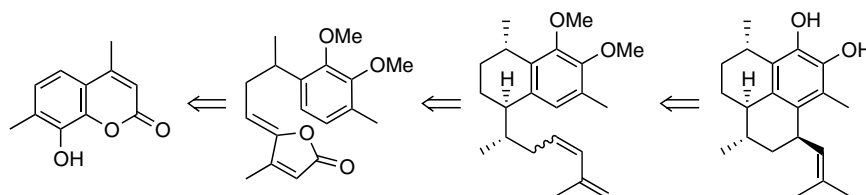
Alejandro García-Torres, Rymundo Cruz-Almanza and Luis D. Miranda*



Electrophilic radical species react with β -nitrostyrenes to efficiently give products of formal substitution of the nitro group.

Total synthesis of (\pm)-pseudopterosin A–F and K–L aglycone pp 2089–2091

David C. Harrowven* and Melloney J. Tyte



Synthesis of versatile bicyclo[5.4.0]undecane systems from tetrachlorocyclopropene pp 2093–2096

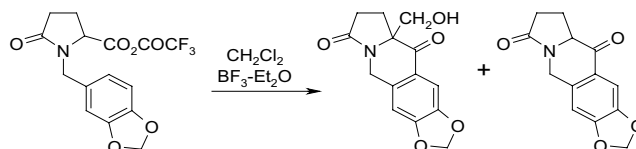
William A. Batson, Khalil A. Abboud, Merle A. Battiste and Dennis L. Wright*



Studies on pyrrolidinones: a reaction of methylene dichloride under Friedel–Crafts conditions. Synthesis of an α -hydroxymethyl ketone in the hexahydrobenzo[*b*]indolizine series

pp 2097–2101

Anne Bourry, Rufine Akué-Gédu, Jean-Pierre Hénichart, Gérard Sanz and Benoît Rigo*

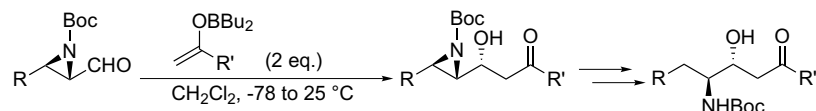


In methylene dichloride, the Friedel–Crafts cyclization of *N*-arylmethyl pyroglutamates can lead to addition of a CH₂OH group in the position α to the newly formed ketone function.

Stereocontrolled addition of boron enolates to *trans* α,β -aziridine aldehydes. A new route to *anti*-1,2-amino alcohols

pp 2103–2106

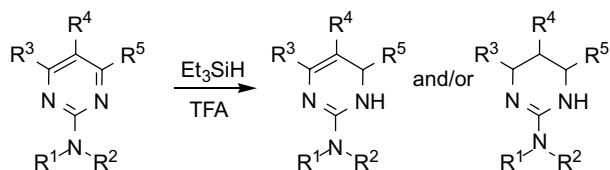
Giuliana Righi* and Simona Ciambrone



A facile reduction of 2-aminopyrimidines with triethylsilane and trifluoroacetic acid

pp 2107–2111

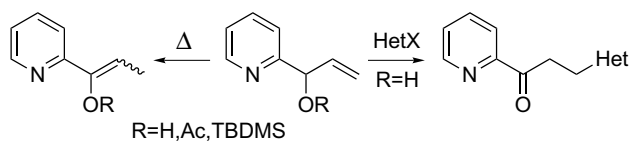
Subramanian Baskaran, Emily Hanan, Daniel Byun and Wang Shen*



New reactivity of hydroxyallylpyridyl derivatives as C-3 carbon nucleophiles

pp 2113–2115

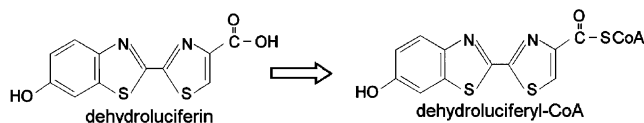
Donatella Giomi,* Michela Piacenti and Alberto Brandi



Chemical synthesis and firefly luciferase produced dehydroluciferyl-coenzyme A

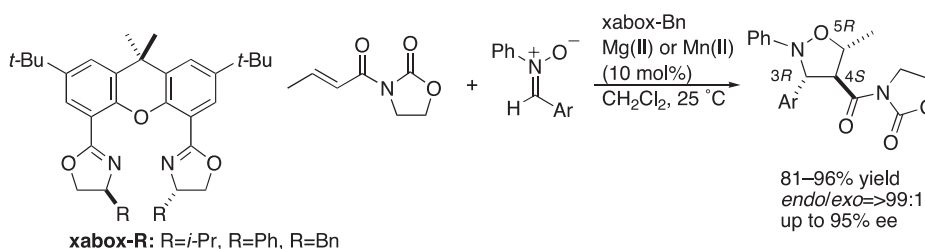
pp 2117–2120

Hugo Fraga, Joaquim C. G. Esteves da Silva* and Rui Fontes

**Synthesis of novel chiral bis(2-oxazoliny)xanthene (xabox) ligands and their evaluation in catalytic asymmetric 1,3-dipolar cycloaddition reactions of nitrones with 3-crotonoyl-2-oxazolidinone**

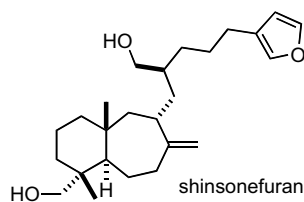
pp 2121–2124

Seiji Iwasa,* Yosuke Ishima, Herman Setyo Widagdo, Katsuyuki Aoki and Hisao Nishiyama*

**Shinsonefuran, a cytotoxic furanosesterterpene with a novel carbon skeleton, from the deep-sea sponge *Stoebea extensa***

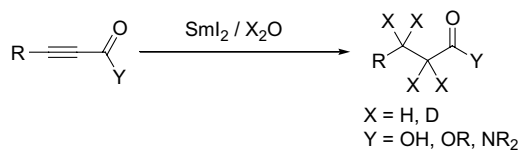
pp 2125–2128

Preecha Phuwapraisirisan, Shigeki Matsunaga, Rob W. M. van Soest and Nobuhiro Fusetani*

**Deuteration of α,β -acetylenic esters, amides, or carboxylic acids without using deuterium gas: synthesis of 2,2,3,3-tetra-deuterioesters, amides, or acids**

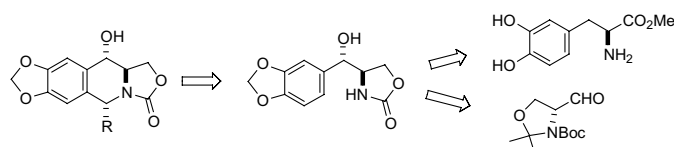
pp 2129–2131

José M. Concellón,* Humberto Rodríguez-Solla and Carmen Concellón



Synthesis of advanced intermediates for the preparation of aza-analogues of podophyllotoxin
pp 2133–2136

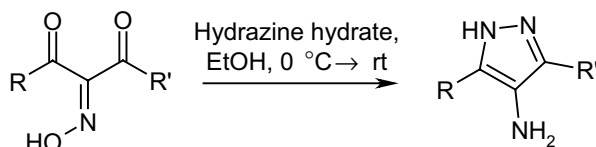
Enrico Marcantoni, Marino Petrini* and Roberto Profeta



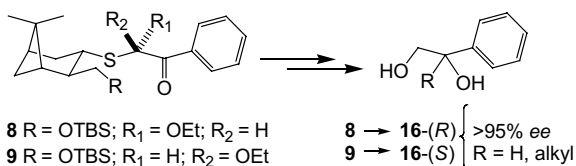
Some central intermediates useful for the synthesis of aza-analogues of the anti-cancer drug podophyllotoxin have been prepared starting from L-DOPA and (*R*)-Garner aldehyde.

Convenient synthesis of 4-amino-3,5-disubstituted pyrazoles in one-step from the corresponding diketo oximes
pp 2137–2139

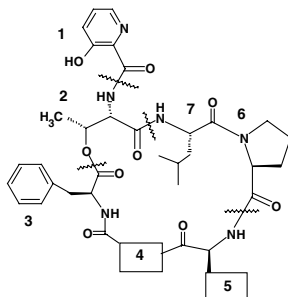
Tahir Majid, Corey R. Hopkins,* Brian Pedgrift and Nicola Collar


New S,O-acetals from (1*R*)-(-)-myrtenal as chiral auxiliaries in nucleophilic additions
pp 2141–2145

Luis Chacón-García, Selene Lagunas-Rivera, Salvador Pérez-Estrada, M. Elena Vargas-Díaz, Pedro Joseph-Nathan, Joaquín Tamariz and L. Gerardo Zepeda*


A progressive synthetic strategy for class B synergimycins
pp 2147–2150

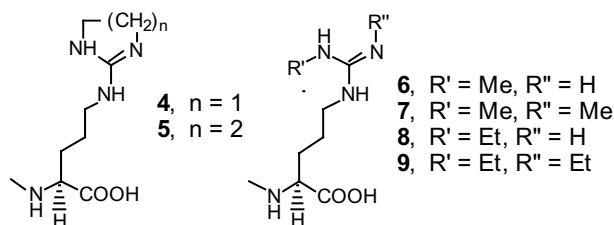
Jennifer L. Robinson, Rachel E. Taylor, Lisa A. Liotta, Megan L. Bolla, Enrique V. Azevedo, Irene Medina and Shelli R. McAlpine*



Synthesis of cyclic and acyclic *N*α-methyl-*N*ω-alkyl-L-arginine analogues

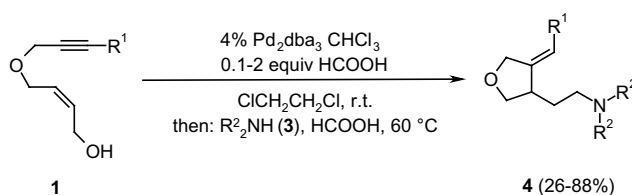
pp 2151–2153

Kyle P. Kokko, H. Brooks Hooper and Thomas A. Dix*


The first one-pot Alder-ene-reductive amination sequence

pp 2155–2158

Christoph J. Kressierer and Thomas J. J. Müller*

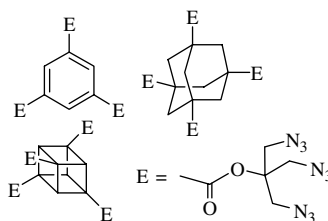


A one-pot cycloisomerization-reductive amination access to β-amino ethyl alkylidene tetrahydrofurans.

Preparation of 'cage molecule' based polyazido core units for dendrimer synthesis

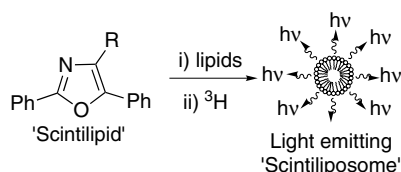
pp 2159–2162

Paritosh R. Dave,* Raja Duddu, Kathy Yang, Reddy Damavarapu, Nathaniel Gelber, Rao Surapaneni and Richard Gilardi


Synthesis, evaluation and incorporation into liposomes of 4-functionalised-2,5-diphenyloxazole derivatives for application in scintillation proximity assays

pp 2163–2166

Mark C. McCairn, Steven J. Culliford, Roland Z. Kozlowski and Andrew J. Sutherland*

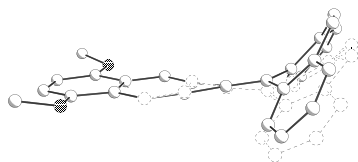


4-Functionalised-2,5-diphenyloxazole derivatives ('scintilipids') have been synthesised and evaluated for their ability to scintillate and to assemble with other lipids, into liposomes that scintillate ('scintiliposomes').

The cyclopropa[*b*]naphthalene electron donor: nonplanar 8π 7C cycloheptatrienyliene derivatives

pp 2167–2170

Brian Halton,* Roland Boese* and Gareth M. Dixon

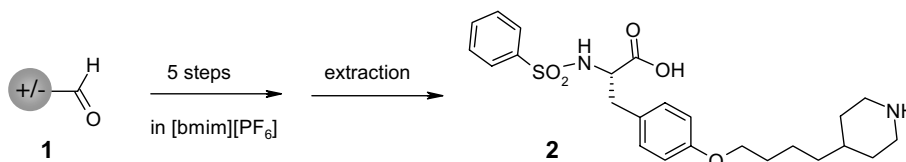


Measured and calculated dipole moments show cyclopropa[*b*]naphthalene to be a stronger donor than cycloheptatriene. Derivatives, with and without electron donating substituents in the cycloproparene, show the seven-membered ring to resist 8π 7C antiaromaticity by bending out of the cycloproparene plane to an extent dependent upon the level of electron donation.

**Development of a novel ionic support and its application in the ionic liquid phase assisted synthesis of a potent antithrombotic**

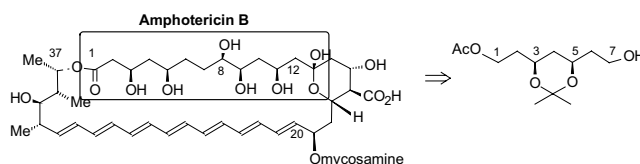
pp 2171–2175

Martin de Kort,* Adriaan W. Tuin, Suzanne Kuiper, Hermen S. Overkleef, Gijs A. van der Marel and Rogier C. Buijsman

**A convergent preparation of the C1–C13 fragment of amphotericin B from a single chiral precursor**

pp 2177–2179

Carlo Bonini,* Lucia Chiummiento, Angela Martuscelli and Licia Viggiani

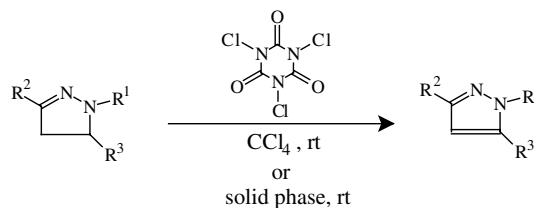


A short, highly efficient, stereoconvergent synthesis of the polyolic chain, C1–C13, of the macrolide antibiotic amphotericin B is described.

Trichloroisocyanuric acid as a novel oxidizing agent for the oxidation of 1,3,5-trisubstituted pyrazolines under both heterogeneous and solvent free conditions

pp 2181–2183

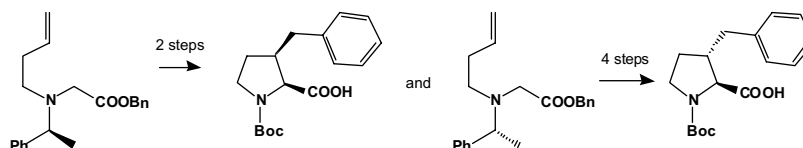
Mohammad Ali Zolfigol,* Davood Azarifar and Behrooz Maleki



Amino-zinc-ene-enolate cyclisation: a short access to (2*S*,3*R*)- and (2*S*,3*S*)-3-benzylprolines (3-benzylpyrrolidine-2-carboxylic acids)

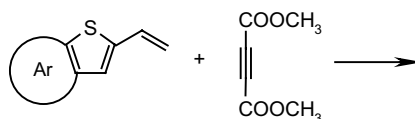
pp 2185–2187

Jean Quancard, Hervé Magellan, Solange Lavielle, Gérard Chassaing and Philippe Karoyan*


A nonconcerted cycloaddition of fused 2-vinylthiophenes with dimethyl acetylenedicarboxylate

pp 2189–2192

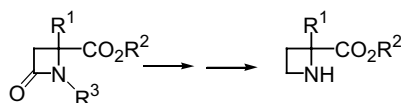
Aleš Machara, Milan Kurfürst, Václav Kozmík, Hana Petříčková, Hana Dvořáková and Jiří Svoboda*



The complex course of the cycloaddition is evidence for a nonconcerted process, which leads to unexpected products.

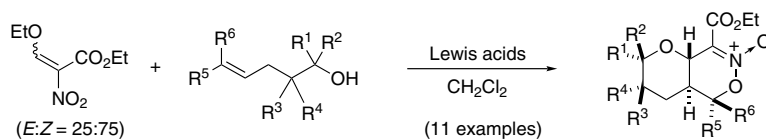

Simple access to novel azetidine-containing conformationally restricted amino acids by chemoselective reduction of β -lactams

pp 2193–2196

Guillermo Gerona-Navarro, M^a Angeles Bonache, Miriam Alías, M^a Jesús Pérez de Vega, M^a Teresa García-López, Pilar López, Carlos Cativiela* and Rosario González-Muñiz*
A new strategy of tandem transesterification–intramolecular hetero Diels–Alder reaction with (*E*,*Z*)-mixture of ethyl 2-nitro-3-ethoxyacrylate and δ,ϵ -unsaturated alcohols leading to functionalized *trans*-fused bicyclic nitronates

pp 2197–2201

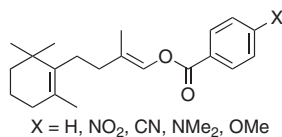
Eiji Wada* and Masahiko Yoshinaga



Synthesis of *Latia* luciferin benzoate analogues and their bioluminescent activity

pp 2203–2205

Mitsuhiro Nakamura, Mizuki Masaki, Shojiro Maki, Ryo Matsui, Minako Hieda, Masashi Mamino, Takashi Hirano, Yoshihiro Ohmiya and Haruki Niwa*

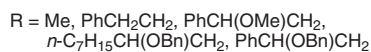
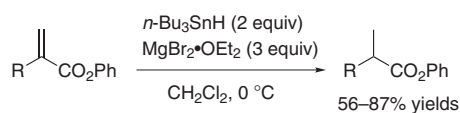


Latia luciferin benzoate analogues delay the emission for natural luciferin in bioluminescence, indicating that the *Latia* bioluminescent activity can be controlled by the design of the enol ester.

Conjugate reduction of aryl acrylates with tributyltin hydride in the presence of magnesium bromide diethyl etherate

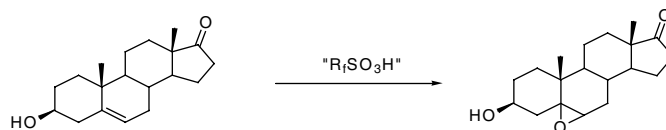
pp 2207–2209

Satomi Hirasawa, Hajime Nagano* and Yoko Kameda

**Poly(per)fluoroalkanesulfonyl fluoride promoted olefin epoxidation with 30% aqueous hydrogen peroxide**

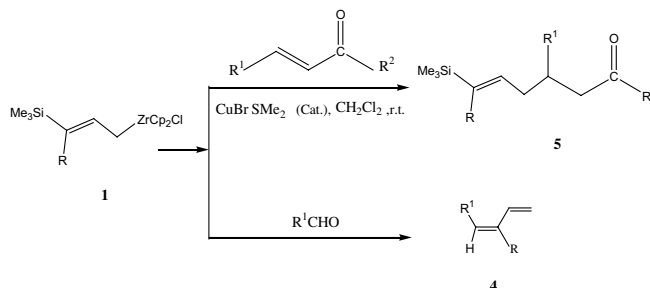
pp 2211–2213

Zhaohua Yan and Weisheng Tian*

 **γ -Trimethylsilyl-substituted allylzirconconenes in organic synthesis. Stereoselective synthesis of terminal 1,3-butadienes and functionalized vinylsilanes**

pp 2215–2218

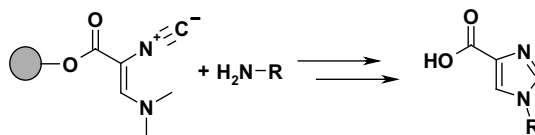
Jin-Hong Pi and Xian Huang*



Synthesis of imidazole-4-carboxylic acids via solid-phase bound 3-*N,N*-(dimethylamino)-2-isocyanoacrylate

pp 2219–2221

Bernd Henkel*

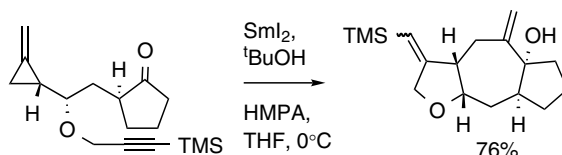


The novel 3-*N,N*-(dimethylamino)isocyanoacrylate-Wang-resin is used for the synthesis of imidazole-4-carboxylic acids. The syntheses are performed in a microwave reactor with reaction times of only 15 min at 220 °C in the solvent dimethoxyethane.

Samarium diiodide mediated 6-*exo* cyclisations of methylenecyclopropyl ketones

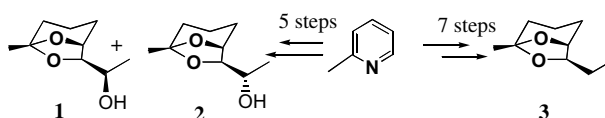
pp 2223–2225

Jonathan J. Underwood, Gregory J. Hollingworth, Peter N. Horton, Michael B. Hursthouse and Jeremy D. Kilburn*


Asymmetric syntheses of (1*R*,1'*R*,5'*R*,7'*R*) and (1*S*,1'*R*,5'*R*,7'*R*)-1-hydroxy-*exo*-brevicomins and a formal synthesis of (+)-*exo*-brevicomins

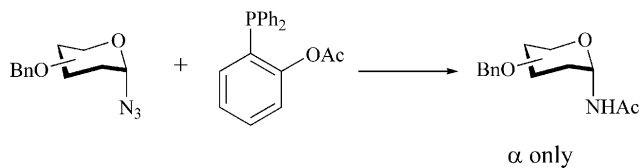
pp 2227–2229

D. Naveen Kumar and B. Venkateswara Rao*


Selective synthesis of anomeric α -glycosyl acetamides via intramolecular Staudinger ligation of the α -azides

pp 2231–2234

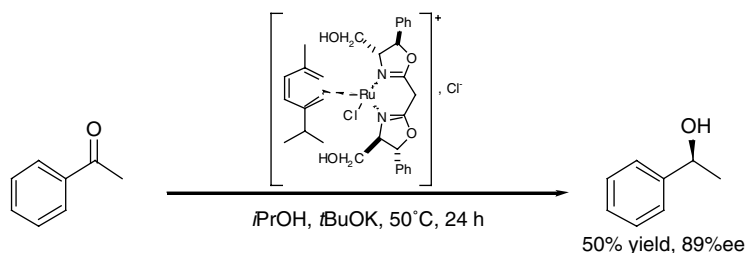
Aldo Bianchi and Anna Bernardi*



New chiral bis(oxazoline) Rh(I)-, Ir(I)- and Ru(II)-complexes for asymmetric transfer hydrogenations of ketones

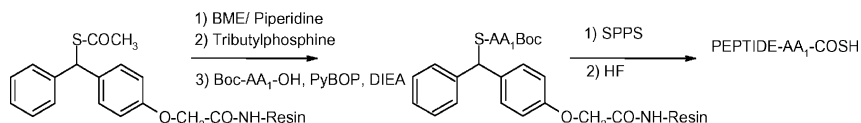
pp 2235–2238

Nathalie Debono, Michèle Besson, Catherine Pinel* and Laurent Djakovitch*


Synthesis of a thioester linker precursor for a general preparation of peptide C-terminal thioacids

pp 2239–2241

Hubert Gaertner, Matteo Villain,* Paolo Botti and Lynne Canne


On the detection of both carbonyl and hydroxyl oxygens in amino acid derivatives: a ^{17}O NMR reinvestigation

pp 2243–2245

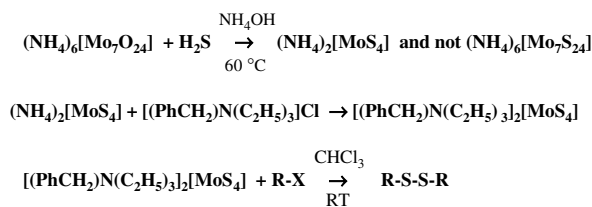
Vassiliki Theodorou, Anastassios N. Troganis and Ioannis P. Gerothanassis*

The hypothesis and the conclusions of previous ^{17}O NMR studies on the detection of both oxygens of the carboxylic group of Boc- ^{17}O Tyr(2,6-diClBzl)-OH in DMSO- d_6 solution (V. Tsikaris et al. *Tetrahedron Lett.* **2000**, *41*, 8651–8654) are reconsidered. The appearance of two discrete resonances in the ^{17}O NMR spectrum in DMSO- d_6 of this protected amino acid is attributed to a strong hydrogen bonding of the COOH group with the solvent DMSO, which effectively reduces the proton exchange rate.

The correct formulation of the sulfur transfer reagent benzyltriammonium tetracosathioheptamolybdate

pp 2247–2249

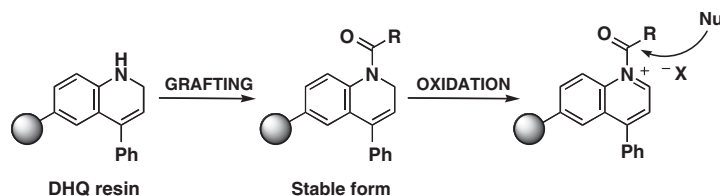
Bikshandarkoil R. Srinivasan,* Sunder N. Dhuri and Ashish R. Naik



Resin-bound 4-phenyl-1,2-dihydroquinoline (DHQ): a new safety-catch linker for solid-phase organic synthesis (SPOS)

pp 2251–2253

Stellios Arseniyadis, Alain Wagner* and Charles Mioskowski*

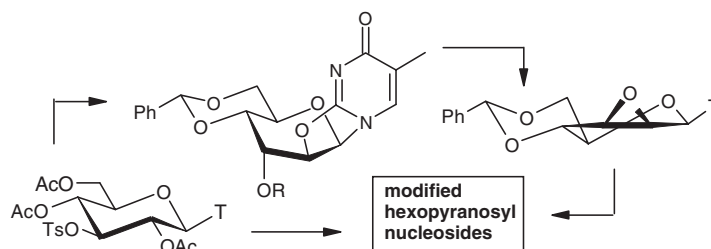


A new oxidatively activatable safety-catch linker was developed for solid-phase chemistry using a two-step process starting from Merrifield resin. Once acylated, the resulting amide is stable and can only be cleaved after selective oxidation.

Synthesis and synthetic applications of 1-(3-*O*-tosyl- β -D-glucopyranosyl) thymines: toward new classes of hexopyranosyl pyrimidines

pp 2255–2258

Sachin G. Deshpande and Tanmaya Pathak*


OTHER CONTENTS

Corrigendum
 Corrigendum
 Calendar
 Contributors to this issue
 Instructions to contributors

p 2259
 p 2261
 pp I–IX
 pp XI–XII
 pp XIII–XV

*Corresponding author

Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

Indexed/Abstracted 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



ELSEVIER

ISSN 0040-4039