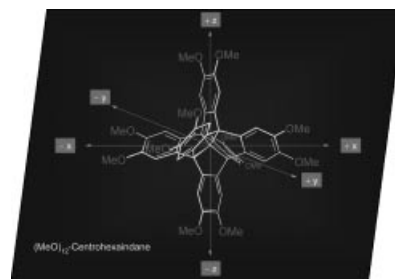


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COVER PICTURE

The cover picture shows a sketch of a recently synthesized polycyclic molecule, 2,3,6,7,10,11,14,15,20,21,26,27-dodecamethoxycentrohexaindane, bearing six 5,6-dimethoxyindane units that are mutually fused along the three axes of the Cartesian space. This “Cartesian hexaveratrole” is strictly T_d -symmetrical and topologically nonplanar because of its rigid centrohexaquinane core. It contains three truly linear 2,2'-spirobiindane units that cross each other at right angles, and consequently, four [3.3]propellane and triquinacene moieties and even three [5.5.5]fenestrane units, all bearing the veratrole groupings at 90 and 180° to each other. Twelve-fold centrohexaindanes can be envisaged to offer an access to three-dimensional, supramolecular, highly porous networks in which their intrinsic orthogonality is perpetuated in all directions of the three-space. Details are discussed in the article by M. Harig and D. Kuck on p. 1647ff.

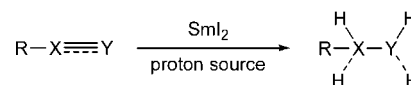


MICROREVIEWS

Contents

1613 J. M. Concellón, H. Rodríguez-Solla

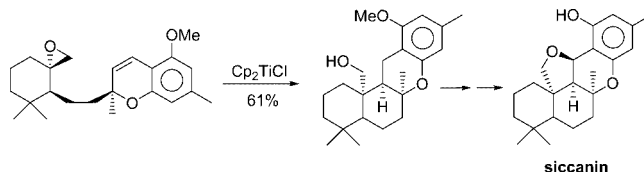
Reduction of Multiple Bonds without Hydrogen
 or Hydride Complexes: Samarium Diiodide as a
 Mild Reducing Reagent



Keywords: Reduction / Samarium

1627 A. F. Barrero,* J. F. Quílez del Moral,
E. M. Sánchez, J. F. Arteaga

Titanocene-Mediated Radical Cyclization: An Emergent Method Towards the Synthesis of Natural Products



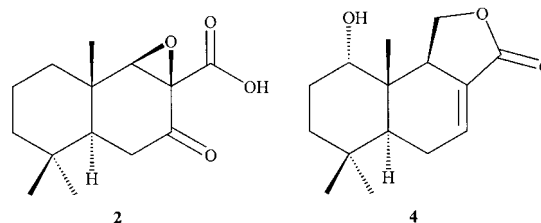
Keywords: Radical reactions / Titanium / Cyclization / Domino reactions / Natural products

SHORT COMMUNICATION

1643 H. V. Kemami Wangun, H. Dörfelt,
C. Hertweck*

Nebularic Acids and Nebularilactones, Novel Drimane Sesquiterpenoids from the Fungus *Lepista nebularis*

Keywords: Antifungal / Drimanes / Fungi / Natural products / Sesquiterpenes

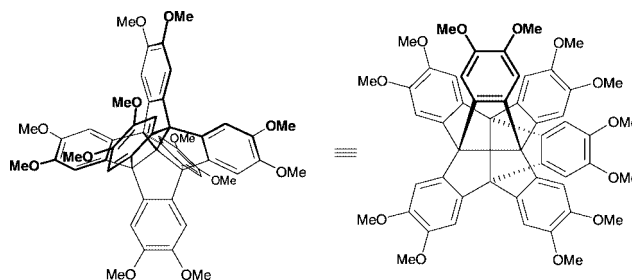


FULL PAPERS

1647 M. Harig, D. Kuck*

The First Centrohexaindane Bearing Twelve Functional Groups at Its Outer Molecular Periphery and Related Lower Veratrole-Derived Centropolyindanes

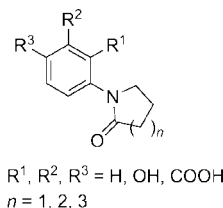
Keywords: Convex/concave molecules / Three-dimensional frameworks / Cyclization reactions / Indane derivatives / Veratrole derivatives / Propellanes / Triquinacenes / Fenestranes / Topology



1656 A. Bassoli,* G. Borgonovo, G. Busnelli,
G. Morini

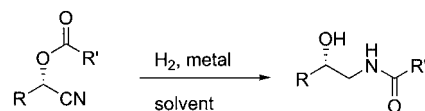
Synthesis of a New Family of *N*-Aryl Lactams Active on Chemesthesis and Taste

Keywords: *N*-Aryl lactams / Cooling compounds / Chemesthesis / Taste



1664 L. Veum, S. R. M. Pereira,
J. C. van der Waal, U. Hanefeld*

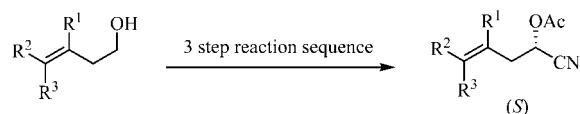
Catalytic Hydrogenation of Cyanohydrin Esters as a Novel Approach to *N*-Acylated β -Amino Alcohols – Reaction Optimisation by a Design of Experiment Approach



Keywords: *N*-Acyl β -amino alcohols / β -Amino alcohols / Cyanohydrin esters / Hydrogenation / Design of experiments

1672 D. J. Vugts, L. Veum, K. al-Mafraji,
R. Lemmens, R. F. Schmitz,
F. J. J. de Kanter, M. B. Groen,
U. Hanefeld,* R. V. A. Orru*

A Mild Chemo-Enzymatic Oxidation–Hydrocyanation Protocol

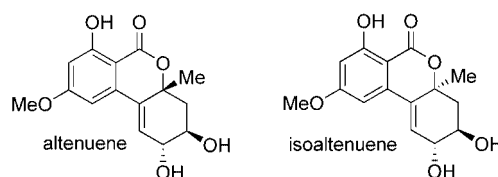


Keywords: TEMPO / Hydroxynitrile lyase / Oxidation / Oxynitrilase

1678 M. Altemöller, J. Podlech,* D. Fenske



Total Synthesis of Altenuene and Isoaltenuene

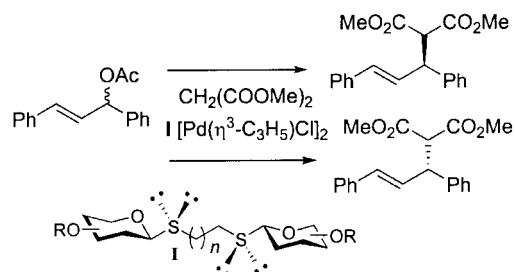


Keywords: Mycotoxins / Suzuki coupling / Biaryls / Total synthesis / Alternaria toxins

1685 N. Khier,* C. Serrano Araújo, B. Suárez, and
I. Fernández*



Sulfur–Sulfur-Based Ligands Derived from D-Sugars: Synthesis of Pd^{II} Complexes, Application in Palladium-Catalyzed Allylic Alkylation for the Synthesis of Both Members of Enantiomer Pairs, and Structural Studies

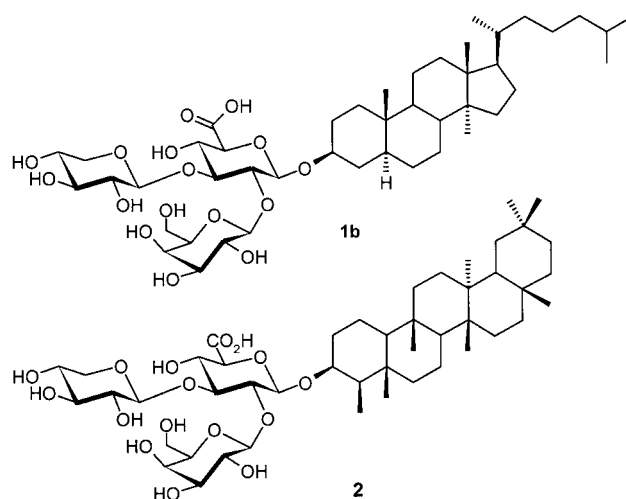


Keywords: Asymmetric catalysis / S–S ligands / *exo*-Anomeric effect / Carbohydrates

1701 J. Schimmel, M. I. Passos Eleutério,
G. Ritter, R. R. Schmidt*

Synthesis of Saponins with Cholesterol, Cholesterol, and Friedelanol as Aglycones

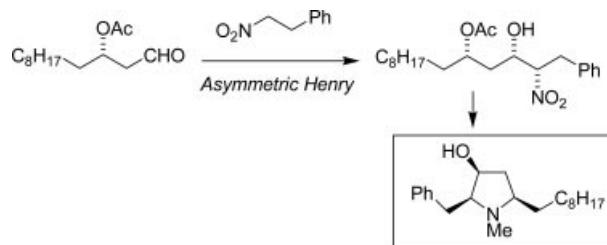
Keywords: Carbohydrates / Glycosylation / Glycosides / Immunostimulants / Saponins / Trichloroacetimidates



1722 N. Gogoi, J. Boruwa, N. C. Barua*

A Concise Total Synthesis of Antifungal Antibiotic (+)-Preussin

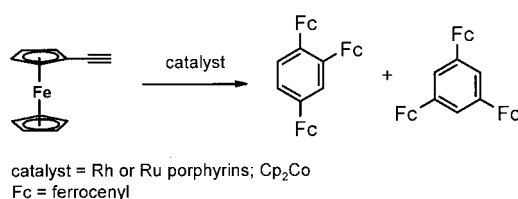
Keywords: Preussin / Asymmetric synthesis / Allylation / Asymmetric nitro-aldol / Binaphthol-derived catalysts



1726 S. Fiorentini, B. Floris,* P. Galloni,*
F. Grepioni, M. Polito, P. Tagliatesta*

The Metal-Catalyzed Cyclotrimerization of Ferrocenylethyne – Preparation and Characterization of 1,2,4-Triferrocenylbenzene

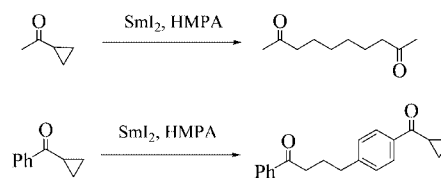
Keywords: Ferrocenylethyne / Cyclotrimerization / Metal porphyrins / Cobaltocene



1733 F. Aulenta, A. Hölemann, H.-U. Reißig*

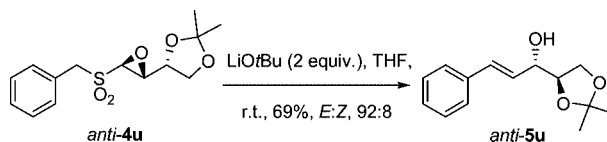
Samarium Diiodide Induced Reactions of Cyclopropyl Ketones: Reductive Ring Cleavage and Dimerization Leading to 1,8-Diketones – Scope, Limitations, Mechanisms

Keywords: Samarium diiodide / Cyclopropyl ketones / Electron transfer / Radical dimerization



1740 P. Evans, P. Johnson, R. J. K. Taylor*

The Epoxy-Ramberg–Bäcklund Reaction (ERBR): A Sulfone-Based Method for the Synthesis of Allylic Alcohols

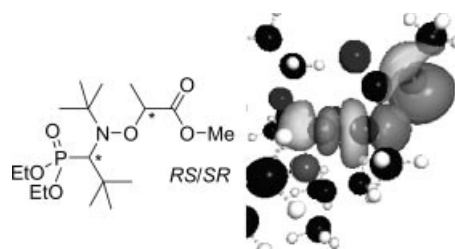


Keywords: Epoxy-Ramberg–Bäcklund reaction / Allylic alcohols / Vinyl sulfones / Nucleophilic epoxidation

1755 E. Beaudoin, D. Bertin, D. Gignes,
S. R. A. Marque,* D. Siri, P. Tordo



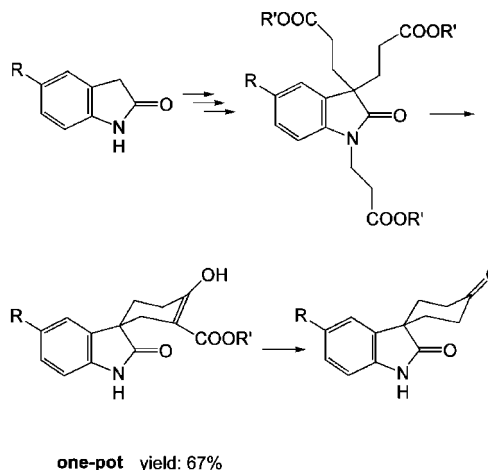
Alkoxyamine C–ON Bond Homolysis: Stereo-electronic Effects



Keywords: Alkoxyamines / Density functional calculations / Linear free energy relationships / Through-space interactions / Structure elucidation

1769 A. Sánta-Csutor, Z. Mucsi, Z. Finta,
C. Gönczi, J. Halász, É. Csikós,
I. Hermecz*

Kinetic and Theoretical Studies of a Facile, One-Pot Preparation of a Spirocyclohexylindolinone Derivative

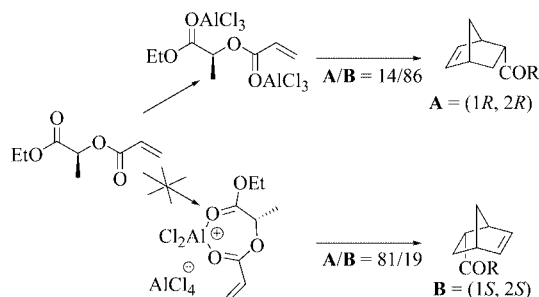


Keywords: Density functional calculations / Kinetics / Michael addition / Reaction mechanisms / Spiro compounds

1779 S. M. Bakalova, A. G. Santos*



A Theoretical Study of the Stereoselectivities of the Diels–Alder Addition of Cyclopentadiene to Ethyl-(S)-lactyl Acrylate Catalyzed by Aluminium Chloride

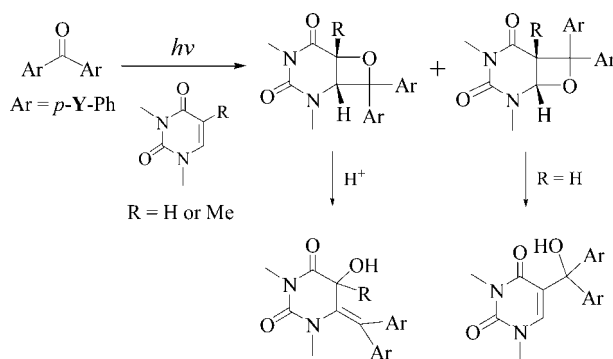


Keywords: Density functional calculations / Ab initio calculations / Chiral auxiliaries / Cycloaddition / Solvent effects

1790 **Q.-H. Song,* B.-C. Zhai, X.-M. Hei,
Q.-X. Guo**

The Paternò–Büchi Reaction of 1,3-Dimethyluracil and 1,3-Dimethylthymine with 4,4'-Disubstituted Benzophenones

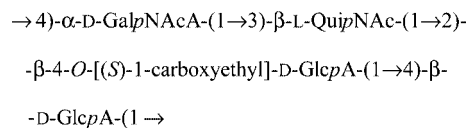
Keywords: Organic photochemical reaction / Paternò–Büchi reaction / Regioselectivity / Rearrangement / Substituent effects



1801 **M. Corsaro,* A. Gambacorta, A. Iadonisi,
R. Lanzetta, T. Naldi, B. Nicolaus,
I. Romano, S. Ummarino, M. Parrilli**

Structural Determination of the O-Chain Polysaccharide from the Lipopolysaccharide of the Haloalkaliphilic *Halomonas pantelleriensis* Bacterium

Keywords: Natural products / Polysaccharides / Structure elucidation



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