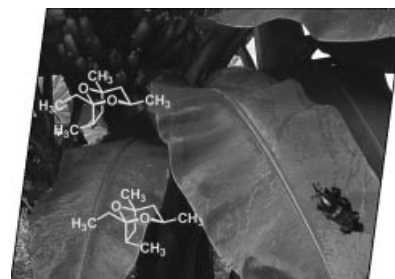


COVER PICTURE

The cover picture shows the most important worldwide insect pest of banana plants, the banana weevil *Cosmopolites sordidus* (Germar). These long-lived weevils lay their eggs in the rhizome of the plant. The larvae hatch and then feed and tunnel in the rhizome of the plant, weakening it and leading to the snapping of the rhizome at the ground level before the bunch is ripe. The first evidence for the depicted volatile male-produced aggregation pheromones, sordidin and 7-*epi*-sordidin was supplied by Budenberg et al. in 1993. Details of the first asymmetric synthesis of the major pheromone compound, sordidin, and its C-7-epimer based on the SAMP/RAMP-hydrazone methodology are described in the article by D. Enders et al. on p. 2677 ff.



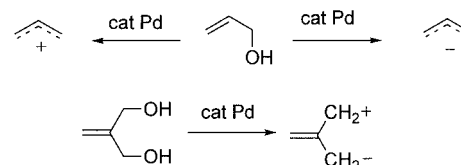
MICROREVIEWS

Contents

2647 Y. Tamaru*

Activation of Allyl Alcohols as Allyl Cations,
 Allyl Anions, and Amphiphilic Allylic Species
 by Palladium

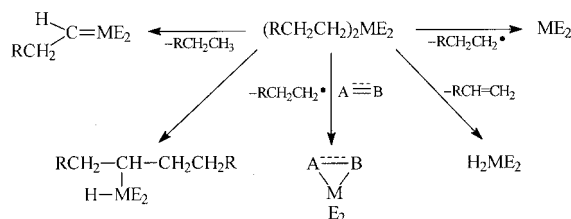
Keywords: Amphiphilic activation / Allyl alcohols /
 Allylation / Allyl anion / Allyl cation /
 Diethylzinc / Palladium catalysis /
 Umpolung / Triethylborane



**2657 J. J. Eisch,* A. A. Adeosun, S. Dutta,
P. O. Fregene**

The Decomposition of Transition Metal Alkyls Revisited: Surprising Wellspring of Novel Reagents for Organic Synthesis

Keywords: Transition metals / Hydride and methyl derivatives / Direct and transfer epimetallation / Alkylidenes in C–C bond formation / Ziegler–Natta and ROMP catalysts

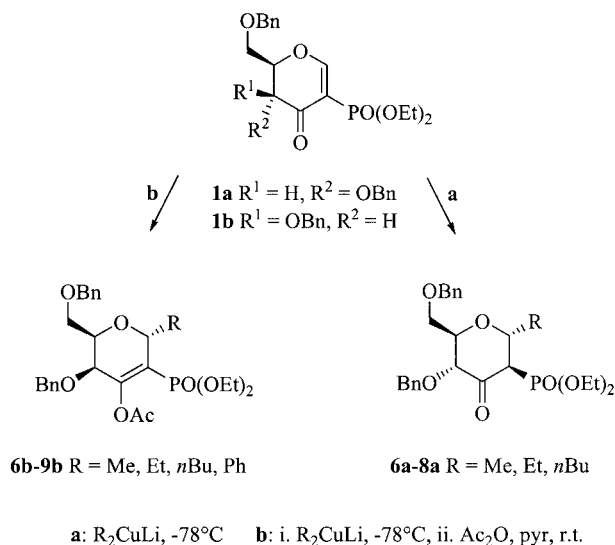


SHORT COMMUNICATION

**2671 F. Leonelli,* M. Capuzzi, V. Calcagno,
P. Passacantilli, G. Piancatelli***

Stereoselective Michael-Type Addition of Organocopper Reagents to Enones Derived from Glycols in the Synthesis of 2-Phosphono- α -C-Glycosides

Keywords: C-Glycosides / Carbohydrates / Michael addition / Phosphorylation / 3-Oxo-2-phosphono α -C-glycosides / Organocopper reagents

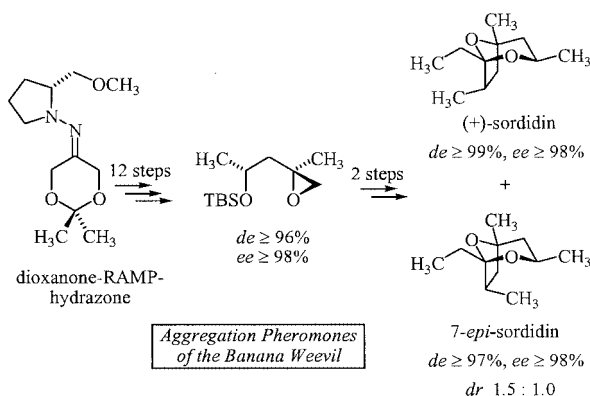


FULL PAPERS

2677 D. Enders,* I. Breuer, A. Nühning

First Asymmetric Synthesis of (+)-Sordidin and (–)-7-*epi*-Sordidin, Aggregation Pheromones of the Banana Weevil *Cosmopolites sordidus*

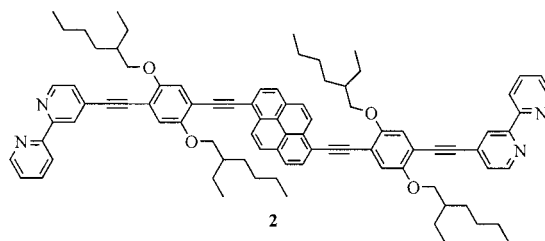
Keywords: Pheromones / Asymmetric synthesis / SAMP/RAMP-Hydrazones / Quaternary stereocenters / Epoxide opening



2684 S. Leroy-Lhez,* F. Fages*

Synthesis and Photophysical Properties of a Highly Fluorescent Ditopic Ligand Based on 1,6-Bis(ethynyl)pyrene as Central Aromatic Core

Keywords: Pyrene / 2,2'-Bipyridine / Fluorescence / Synthesis / Conjugated oligomer

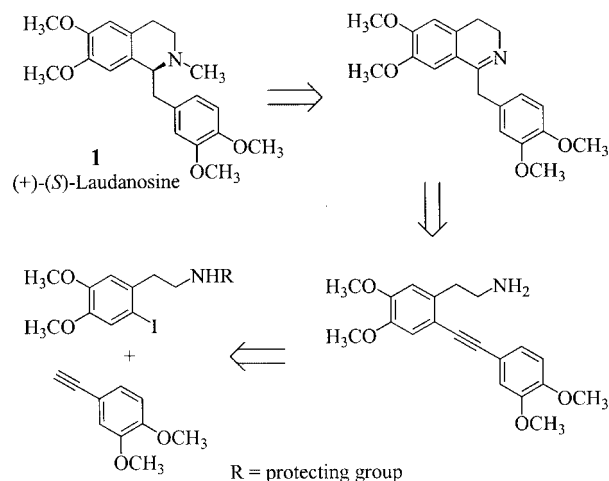


2689

D. Mujahidin, S. Doye*

Enantioselective Synthesis of (+)-(*S*)-Laudanosine and (–)-(*S*)-Xylopinine

Keywords: Alkaloids / Alkynes / Asymmetric Synthesis / Hydroamination / Titanium



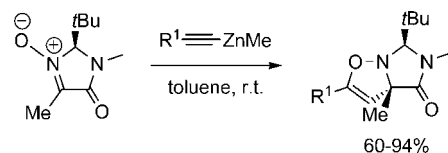
2694

F. Cantagrel, S. Pinet, Y. Gimbert, P. Y. Chavant*



Tandem Addition/Cyclization of Alkynylzinc Reagents to Enantiopure 2-*tert*-Butyl-3,5-dimethyl-2,3-dihydroimidazol-4-one *N*-Oxide: Potential Precursors of Quaternary α -Amino Acids

Keywords: Nitrones / Alkynylzinc / Amino acids / Imidazolidinone / Dihydroisoxazole / Cyclization

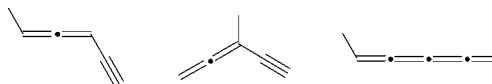


2702

H. Maurer, H. Hopf*

The Preparation of the Last Remaining Acyclic Isomers of Benzene

Keywords: Benzene isomers / Alkynes / Allenes / Cuprates / Cycloadditions

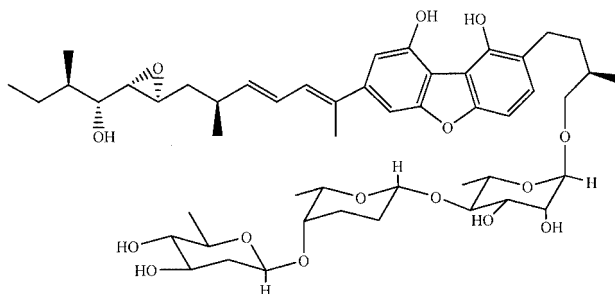


2708

T. Řezanka,* L. O. Hanuš, P. Kujaň, V. M. Dembitsky

Fulcineroside, an Unusual Glycosidic Dibenzo-furan Metabolite from the Slime Mold *Fuligo cinerea* (Schwein.) Morgan

Keywords: Antitumor agents / Glycosides / Natural products / Slime mold / Structure elucidation

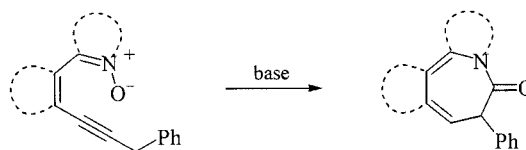


2715

K. Knobloch, J. Koch, M. Keller, W. Eberbach*

The Dipolar Route to Azepin-3-one Derivatives by Heterocyclization of Linear and Monocyclic Enallenyl Nitrones as the Key Step

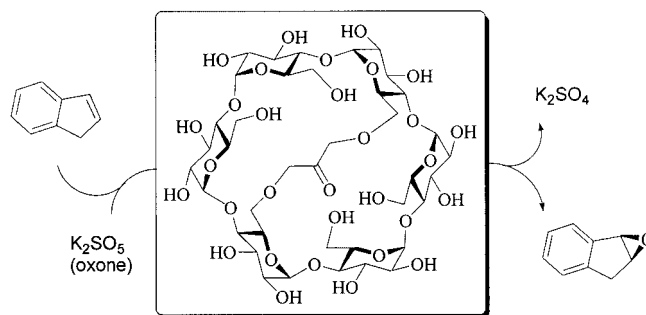
Keywords: Azepinones / Allenes / Nitrones / Electrocyclization / Photochemistry



2734 C. Rousseau, B. Christensen, M. Bols*

Artificial Epoxidase II. Synthesis of Cyclodextrin Ketoesters and Epoxidation of Alkenes

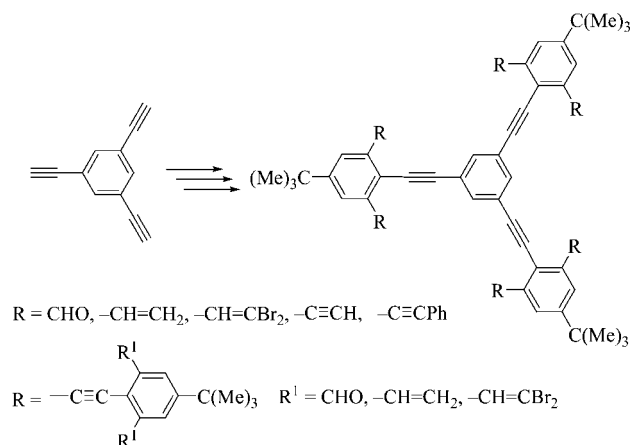
Keywords: Artificial enzyme / Oxidation / Dioxirane / Bridge / Cyclodextrins



2740 V. Narayanan, S. Sankararaman,* H. Hopf

Synthesis of Shape-Persistent Poly(Al) Dendrimers – Facile Entry to Polyene and Poly(Al) Dendrimers

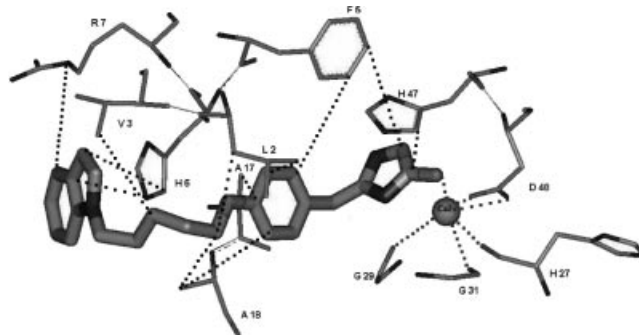
Keywords: Dendrimers / Polyenes / Polyynes / Sonogashira coupling / Corey–Fuchs reaction



2747 S. Plocki, D. Aoun, A. Ahamada-Himidi, F. Tavarès-Camarinha, C.-Z. Dong, F. Massicot, J. Huet, S. Adolphe-Pierre, F. Chau, J.-J. Godfroid, N. Gresh, J. E. Ombetta, F. Heymans*

Molecular Modeling, Design, and Synthesis of Less Lipophilic Derivatives of 3-(4-Tetradecyloxybenzyl)-4H-1,2,4-oxadiazol-5-one (PMS1062) Specific for Group II Enzyme

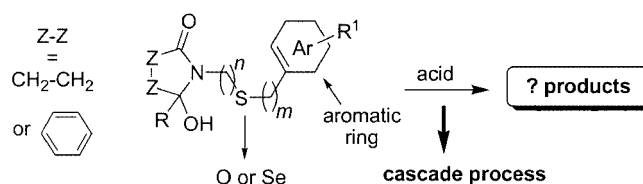
Keywords: Molecular modeling / sPLA₂ / Inflammation / Oxadiazolone



2758 N. Hucher, A. Pesquet, P. Netchitaïlo, A. Daïch*

Exocyclic–Endocyclic *N*-Acyliminium Ion Equilibration via an Intramolecular α -Thioamidalkylation in the Synthesis of Fused N,S-Heterocyclic Systems: Some New Parameters

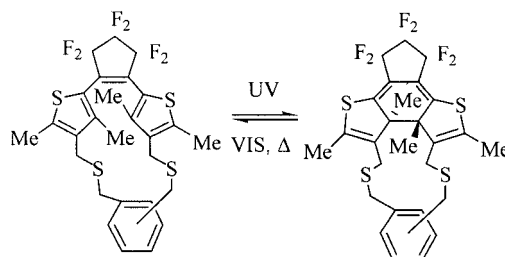
Keywords: Acyliminium ion / Nitrogen heterocycles / Isomerization / Sulfur heterocycles



2771 M. Kamrul Hossain, M. Takeshita,*
T. Yamato

Synthesis, Structure, and Photochromic Properties of Dithia-(dithienylethene)phane Derivatives

Keywords: Cyclophanes / Diarylethene / Photo-memory / Photochromism / Quantum yields

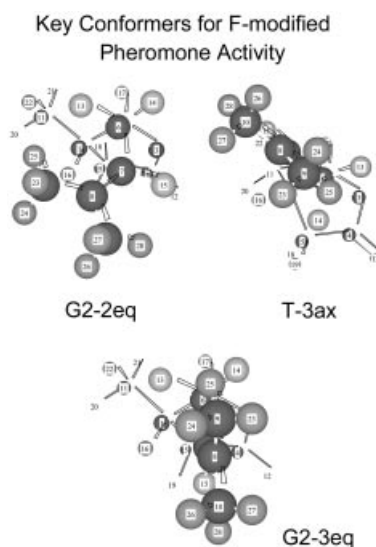


2777 S. Hayase,* M. Renou, T. Itoh*



Possible Origin of Modified EAG Activity by Point-Fluorination of the Insect Pheromone Eldanolide

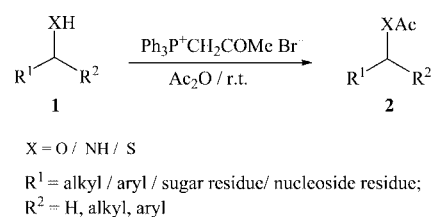
Keywords: Fluorine / Pheromone / Structure-activity relationships / B3LYP/6-31G* calculation / Eldanolide



2782 A. T. Khan,* L. H. Choudhury, S. Ghosh

Acetonyltriphenylphosphonium Bromide (ATPB): A Versatile Reagent for the Acylation of Alcohols, Phenols, Thiols and Amines and for 1,1-Diacylation of Aldehydes under Solvent-Free Conditions

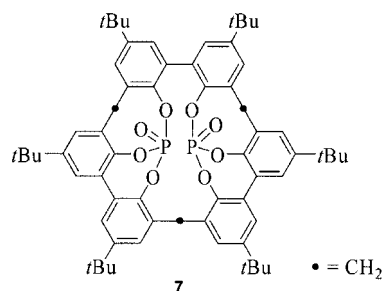
Keywords: Acylations / Alcohols / Phenols / Amines / Thiols / Acetonyltriphenylphosphonium bromide



2788 V. Böhmer,* B. Costisella, J. Gloede,
S. Ozegowski, M. Schneider, I. Thondorf

Unexpected Conformational Behaviour of a Diphosphate Derived from a Spherand-Type Calixarene

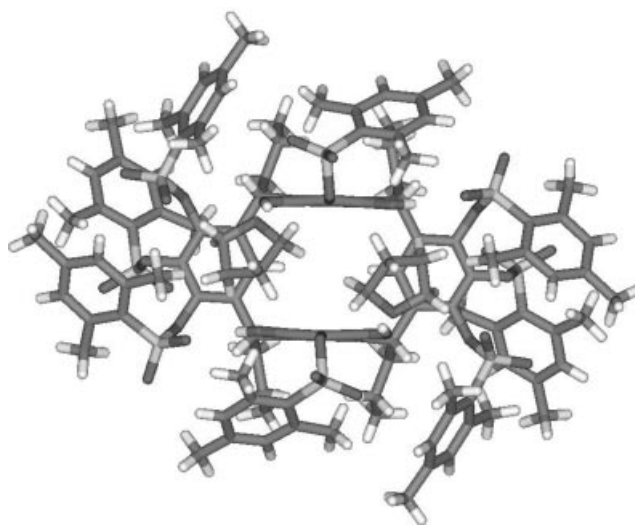
Keywords: Calixarenes / Macrocycles / Molecular mechanics



2793 A. Åhman, M. Luostarinen, C. A. Schalley,
M. Nissinen,* K. Rissanen

Derivatisation of Pyrogallarenes

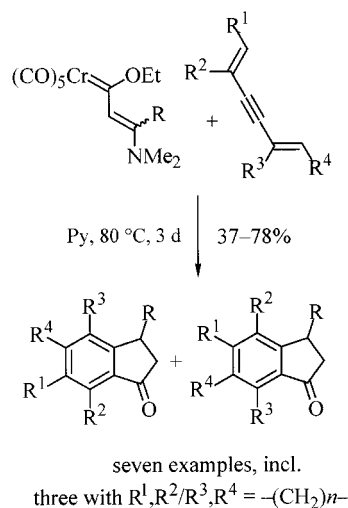
Keywords: Regioselectivity / Acylation / Pyrogallarenes / Resorcinarenes / Macrocycles



2802 Y.-T. Wu, M. Noltemeyer, A. de Meijere*



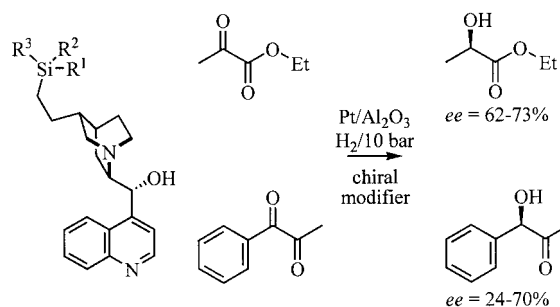
Cascade Reactions of β -Amino-Substituted α,β -Unsaturated Fischer Carbene Complexes with 1,5-Dien-3-yne as a Convenient Access to Ring-Annulated Benzene Derivatives



Keywords: Cascade reaction / Template synthesis / 6π -Electrocyclization / Fischer carbenes

2811 I. Busygin, E. Toukoniitty, R. Sillanpää,
D. Yu. Murzin, R. Leino*

Synthesis of Chiral Catalyst Modifiers by Hydrosilylation of Cinchonidine and Their Application in the Hydrogenation of 1-Phenylpropane-1,2-dione and Ethyl Pyruvate on a Supported Pt/ Al_2O_3 Catalyst

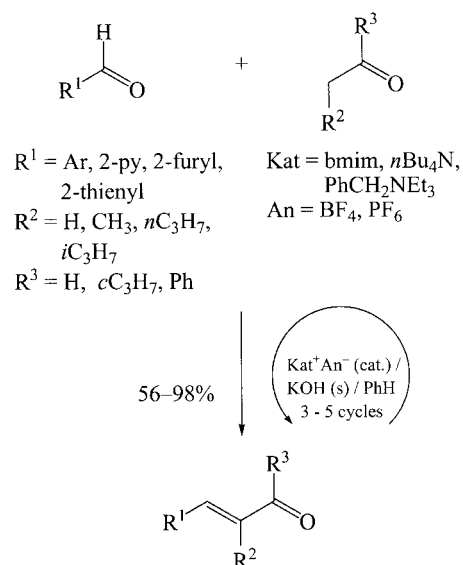


Keywords: Heterogeneous catalysis / Hydrogenation / Cinchonidine / Hydrosilylation / Platinum

2822 G. V. Kryshnal, G. M. Zhdankina,
S. G. Zlotin*

Tetraalkylammonium and 1,3-Dialkylimidazolium Salts with Fluorinated Anions as Recoverable Phase-Transfer Catalysts in Solid Base-Promoted Cross-Aldol Condensations

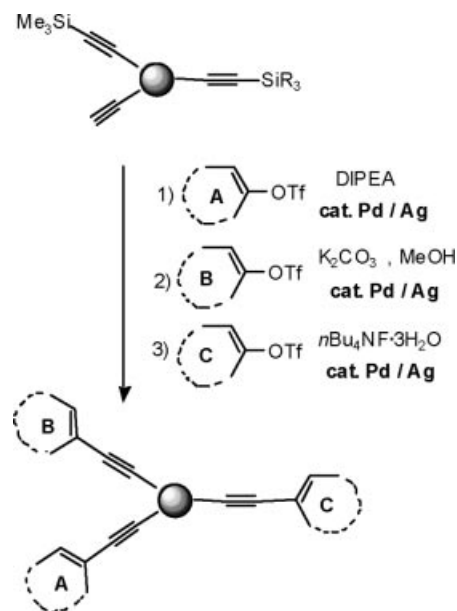
Keywords: Aldol condensation / Ionic liquids / Fluorinated anions / Aldehydes / Phase-transfer catalysis



2828 U. Halbes-Létinois, A. Vasiliev, P. Pale*

Regio- and Chemoselective Coupling of Polyalkynes: A Convenient Access to Polyarylacetylenes and Polyenyne

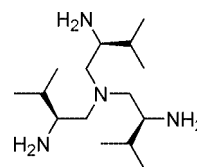
Keywords: Cross-coupling / Palladium / Silver / Alkynes / Molecular devices



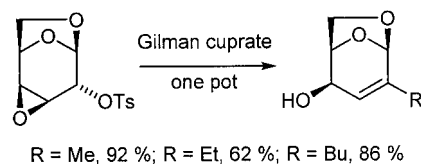
2835 Y. Pei, K. Brade, E. Brulé, L. Hagberg,
F. Lake, C. Moberg*

A General Method for the Preparation of Chiral TREN Derivatives

Keywords: Amines / Chirality / C_3 symmetry / Tripodal ligands / TREN



New Derivatives of Levoglucosan by Tandem Epoxide Allyl Alcohol Rearrangement-Cuprate Cross-Coupling



Keywords: 1,6-Anhydro sugars / Chiral building blocks / Branched sugars / Černý epoxide / Gilman cuprates / Epoxide rearrangement / Vinyl tosylate cross coupling