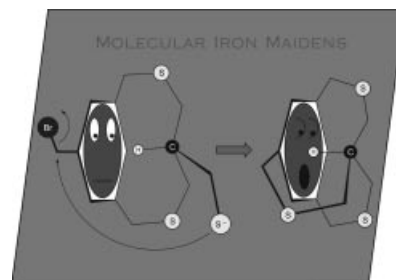


COVER PICTURE

The cover picture shows the last step in the synthesis of an *in*-cyclophane. Like the medieval “iron maiden”, an instrument of torture in which the closing of a spiked door impaled a victim, the final ring closure forces a functional group into the face of a benzene ring. Details are discussed in the Microreview by R. A. Pascal, Jr. on p. 3763 ff.



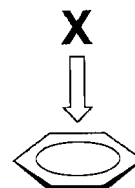
MICROREVIEWS

Contents

3763 R. A. Pascal, Jr.

Molecular “Iron Maidens”: Ultrashort Non-bonded Contacts in Cyclophanes and Other Crowded Molecules

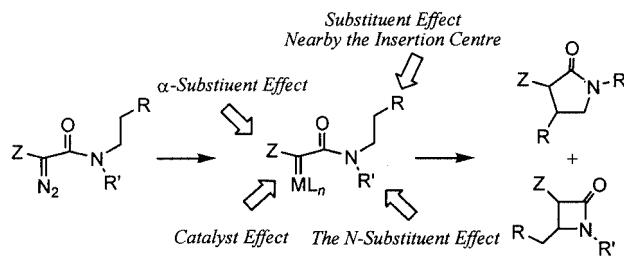
Keywords: Cyclophanes / Intramolecular interactions / Noncovalent interactions / Strained molecules



3773 P. M. P. Gois,* C. A. M. Afonso*

Stereo- and Regiocontrol in the Formation of Lactams by Rhodium-Carbenoid C–H Insertion of α -Diazoacetamides

Keywords: C–H insertion / Diazo compounds / Diazoacetamides / Lactams / Rhodium

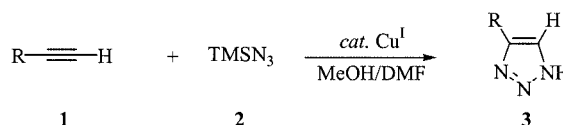


SHORT COMMUNICATION

3789 T. Jin, S. Kamijo, Y. Yamamoto*

Copper-Catalyzed Synthesis of *N*-Unsubstituted 1,2,3-Triazoles from Nonactivated Terminal Alkynes

Keywords: 1,2,3-Triazoles / Alkynes / Copper / Catalysis / Cycloaddition

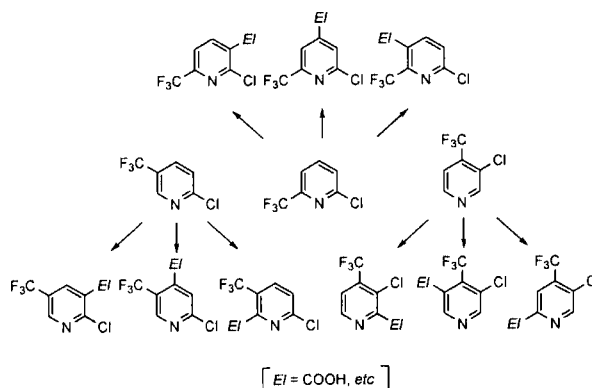


FULL PAPERS

3793 F. Cottet, M. Schlosser*

Three Chloro(trifluoromethyl)pyridines as Model Substrates for Regioexhaustive Functionalization

Keywords: Carboxylation / Halogen-metal permutation / Metalation / Iodine migration / Pyridines

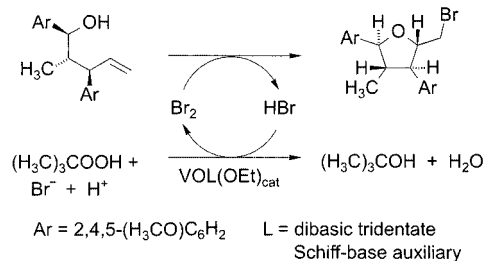


3799 M. Greb, J. Hartung,* F. Köhler, K. Špehar, R. Kluge, R. Csuk



The (Schiff base)vanadium(v) Complex Catalyzed Oxidation of Bromide – A New Method for the in situ Generation of Bromine and Its Application in the Synthesis of Functionalized Cyclic Ethers

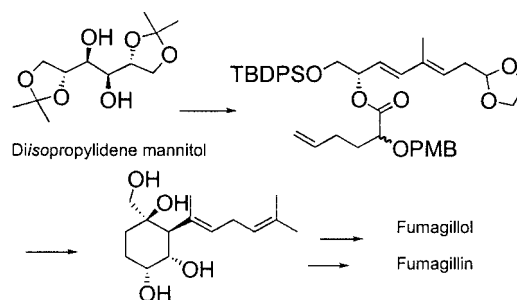
Keywords: Bromide / *tert*-Butyl hydroperoxide / Catalysis / Oxidation / Peroxy complexes / Tetrahydrofuran / Vanadium



3813 O. Bedel, A. Haudrechy,* Y. Langlois*

A Stereoselective Formal Synthesis of (–)-Fumagillol

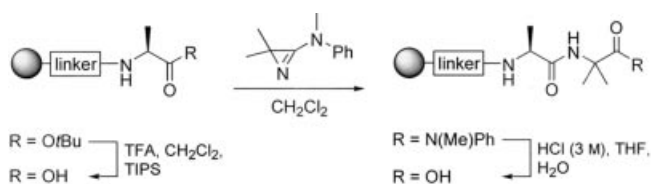
Keywords: Angiogenesis / Dihydroxylation / Rearrangement / Ring-closing metathesis / Terpenoids



3820 S. Stamm, H. Heimgartner*

The “Azirine/Oxazolone Method” under Solid-Phase Conditions

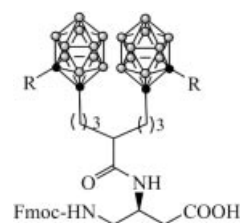
Keywords: Aminoisobutyric acid (Aib) / Azirine / Oxazolone method / Inverse peptide synthesis / Peptides / Solid-phase synthesis



3828 C. Morin,* C. Thimon

Synthesis and Evaluation of Boronated Lysine and Bis(carboranylated) γ -Amino Acids as Monomers for Peptide Assembly

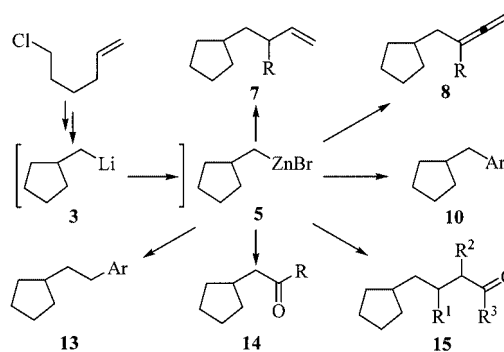
Keywords: Amino acids / Boron / Carboranes / Peptides



3833 M. Yus,* R. Ortiz

Tandem Intramolecular Carbolithiation-Lithium/Zinc Transmetalation and Applications to Carbon–Carbon Bond-Forming Reactions

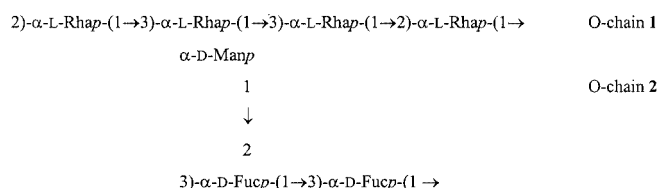
Keywords: Alkylation and acylation / Intramolecular carbolithiation / Lithium–zinc transmetalation / Michael reaction / Negishi reaction



3842 C. De Castro,* E. Bedini, D. Garozzo, L. Sturiale, M. Parrilli

Structural Determination of the O-Chain Moieties of the Lipopolysaccharide Fraction from *Agrobacterium radiobacter* DSM 30147

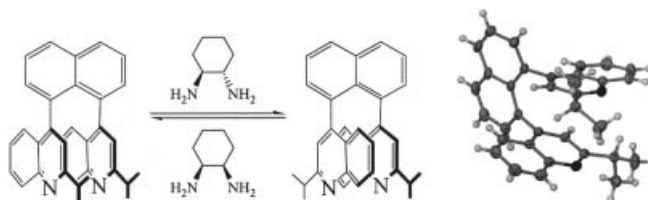
Keywords: Agrobacterium / Conformational analysis / Lipopolysaccharide / NMR spectroscopy / Structure determination



3850 G. E. Tumambac, X. Mei, C. Wolf*

Stereoselective Sensing by Substrate-Controlled *syn/anti* Interconversion of a Stereodynamic Fluorosensor

Keywords: Cross-coupling / Strained molecules / Fluorescence spectroscopy / Sensors / Stereoselectivity

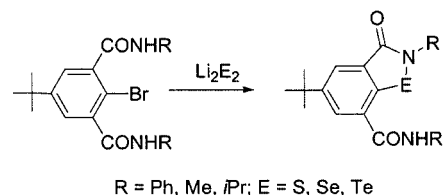


3857 S. S. Zade, S. Panda, S. K. Tripathi, H. B. Singh,* G. Wolmershäuser



Convenient Synthesis, Characterization and GPx-Like Catalytic Activity of Novel Ebselen Derivatives

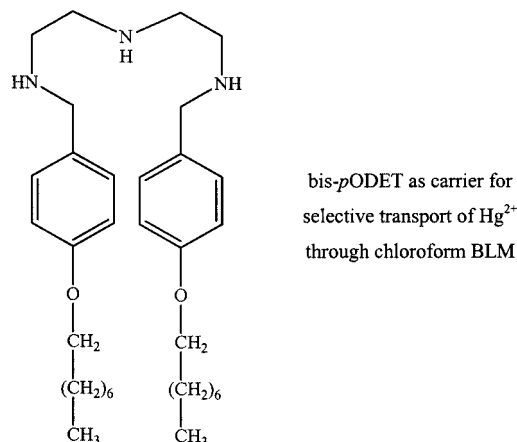
Keywords: Ebselen / Nonbonding interactions / Benzisochalcogenazolone / Te–N heterocycles / *ortho*-Lithiation



3865 N. Spreti, L. Brinchi, R. Germani, M. V. Mancini, G. Savelli*

A New Carrier for Selective Removal of Heavy Metal Ions from Aqueous Solutions through Bulk Liquid Membranes

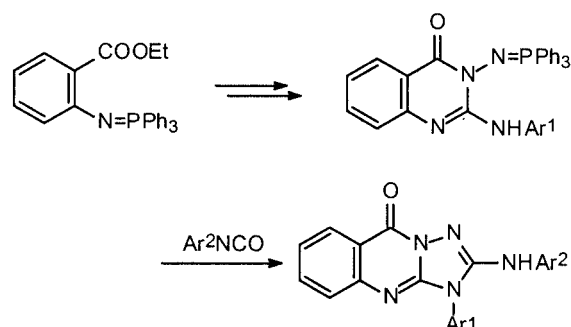
Keywords: Carriers / Lipophilic polyamines / Liquid membranes / Toxic heavy metal ions



3872 M.-W. Ding,* Y.-F. Chen, N.-Y. Huang

New Efficient Synthesis of 1,2,4-Triazolo[5,1-*b*]-quinazolin-9(3*H*)-ones via a Tandem Aza-Wittig/Heterocumulene-Mediated Annulation

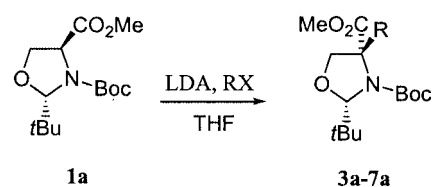
Keywords: aza-Wittig reaction / Carbodiimide / Imino-phosphorane / Nitrogen heterocycles / Synthetic methods



3879 M. Brunner, P. Saarenketo, T. Straub, K. Rissanen, A. M. P. Koskinen*

Stereocontrolled α -Alkylation of Fully Protected L-Serine

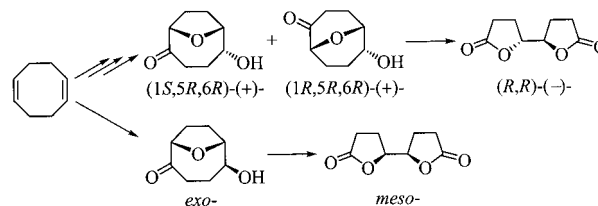
Keywords: Amino acids / Alkylation / Diastereoselectivity / Heterocycles / X-ray diffraction



3884 S. Behr, K. Hegemann, H. Schimanski,
R. Fröhlich, G. Haufe*

Synthesis of γ -Lactones from Cycloocta-1,5-diene – Starting Materials for Natural-Product Synthesis

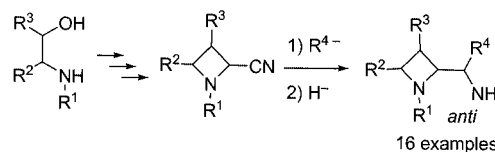
Keywords: Alkenes / Cyclization / Lactones / Natural products / Oxygen heterocycles



3893 F. Couty,* G. Evano, D. Prim,* J. Marrot

General Route to a New Class of Homochiral Azetidine-Derived 1,2-Diamines

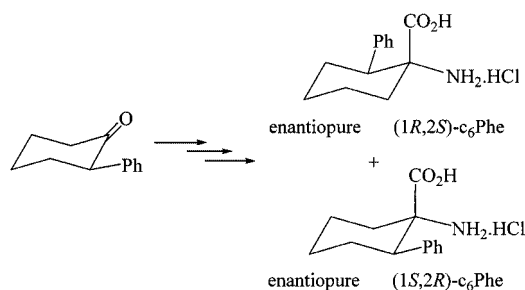
Keywords: Aminonitriles / Azetidines / Vicinal diamines



3898 C. Cativiela,* P. López,* M. Lasa

Synthesis and Preparative Resolution of the *trans*-Cyclohexane Analogues of Phenylalanine

Keywords: Chiral HPLC / Chiral resolution / Cyclohexanic amino acids / Polysaccharide-derived phases / Strained phenylalanine

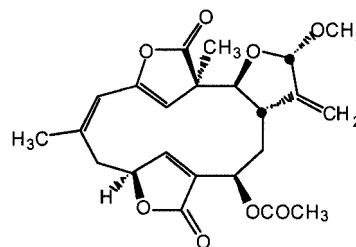


3909 J. Marrero, A. D. Rodríguez,* P. Baran,
R. G. Raptis



Ciereszkolide: Isolation and Structure Characterization of a Novel Rearranged Cembrane from the Caribbean Sea Plume *Pseudopterogorgia kallos*

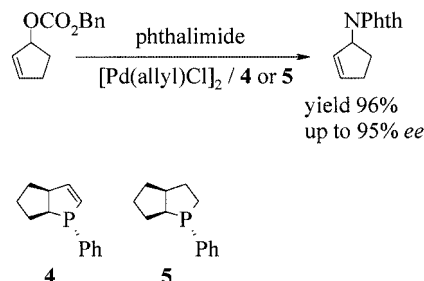
Keywords: Terpenoids / Natural products / X-ray diffraction / Ring contraction / Rearrangement



3913 Z. Pakulski, O. M. Demchuk, J. Frelek,
R. Luboradzki, K. M. Pietrusiewicz*

New Monodentate P,C-Stereogenic Bicyclic Phosphanes: 1-Phenyl-1,3a,4,5,6,6a-hexahydrocyclopenta[*b*]phosphole and 1-Phenyloctahydrocyclopenta[*b*]phosphole

Keywords: Asymmetric catalysis / Phosphabicyclo[3.3.0]octane / Phosphabicyclo[3.3.0]octene / Phospholene / P-stereogenic

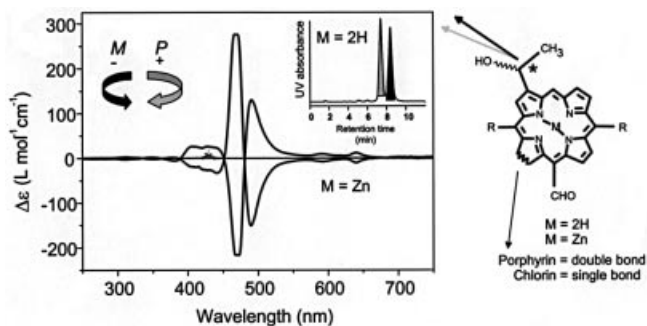


3919 T. S. Balaban,* M. Linke-Schaetzel,
A. D. Bhise, N. Vanthuyne, C. Roussel

Green Self-Assembling Porphyrins and Chlorins as Mimics of the Natural Bacteriochlorophylls *c*, *d*, and *e*

Keywords:

Self-assembly / Bacteriochlorophyll / Porphyrinoids / Light-harvesting / J-aggregates / Circular dichroism / Chlorosome



3931 M. Kleinert, N. Röckendorf,
T. K. Lindhorst*



Glyco-SAMs as Glycocalyx Mimetics: Synthesis of L-Fucose- and D-Mannose-Terminated Building Blocks

Keywords: Carbohydrates / Cell adhesion / Dendrimers / Glycocalyx / Monolayers

