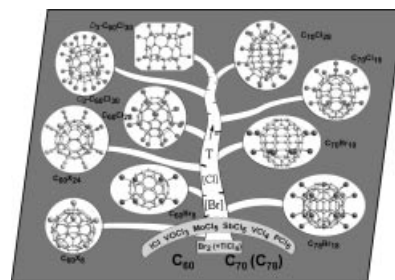


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COVER PICTURE

The cover picture shows a variety of fullerene bromides and chlorides synthesized and structurally investigated in the last few years. A rich “harvest” of fullerene chlorides of C_{60} and C_{70} has been “collected” by using inorganic chlorides and oxychlorides for the chlorination of fullerenes. Even a fullerene chloride with a drum-shaped carbon cage, $D_3\text{-}C_{60}\text{Cl}_{30}$, could be obtained. The maximum degree of chlorination of both C_{60} (left) and C_{70} (right) is much higher than that of bromination. More about the synthesis and molecular structures of fullerene bromides and chlorides can be found in the Microreview by S. I. Troyanov and E. Kemnitz on p. 4951ff.



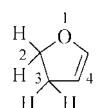
MICROREVIEW

Contents

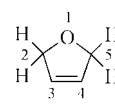
4929 T. G. Kilroy, T. P. O'Sullivan, P. J. Guiry*

Synthesis of Dihydrofurans Substituted in the 2-Position

Keywords: Dihydrofurans / Heterocycles / Natural products / Synthesis / Heck reaction



2,3-dihydrofuran
1

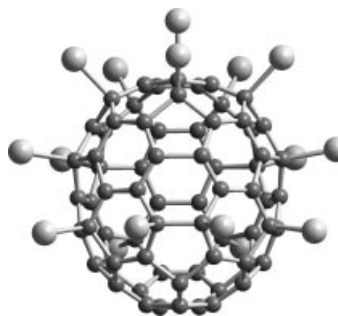


2.5-dihydrofuran
2

4951 S. I. Troyanov,* E. Kemnitz

Synthesis and Structures of Fullerene Bromides and Chlorides

Keywords: Fullerenes / Halogenated fullerenes

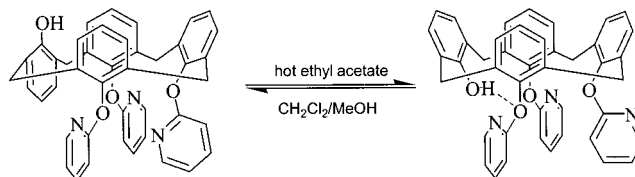


SHORT COMMUNICATION

4963 G. Dyker,* M. Mastalerz, I. M. Müller, K. Merz, K. Koppe

Solvent-Dependent Pseudopolymorphism of Tripyridoxycalix[4]arene: *cone* versus *partial-cone* Conformation

Keywords: Calixarenes / Crystal growth / Pyridines / Supramolecular chemistry / X-ray diffraction

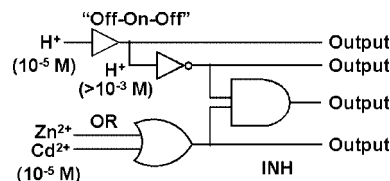


4967 S. Banthia, A. Samanta*



Multiple Logical Access with a Single Fluorophore–Spacer–Receptor System: Realization of Inhibit (INH) Logic Function

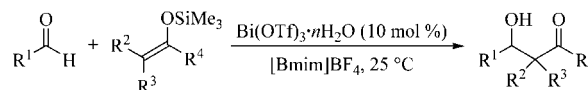
Keywords: Fluorescence spectroscopy / Molecular recognition / Sensor / Molecular electronics / Solid-state structures



4971 T. Ollevier,* V. Desyroy, B. Debailleul, S. Vaur

Bismuth Triflate Catalyzed Mukaiyama Aldol Reaction in an Ionic Liquid

Keywords: Aldol / Bismuth / Green chemistry / Ionic liquid / Mukaiyama aldol reactions

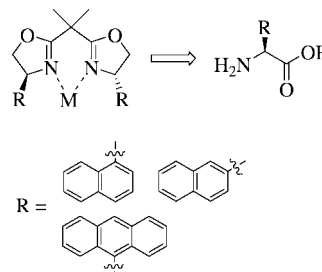


FULL PAPERS

4975 H. L. van Lingen, F. L. van Delft, R. P. M. Storcken, K. F. W. Hekking, A. Klaassen, J. J. M. Smits, P. Ruskowska, J. Frelek, F. J. T. Rutjes*

Effects of Extended Aryl-Substituted Bisoxazoline Ligands in Asymmetric Synthesis – Efficient Synthesis and Application of 4,4'-Bis(1-Naphthyl)-, 4,4'-Bis(2-Naphthyl)- and 4,4'-Bis(9-Anthryl)-2,2'-isopropylidenebis(1,3-oxazolines)

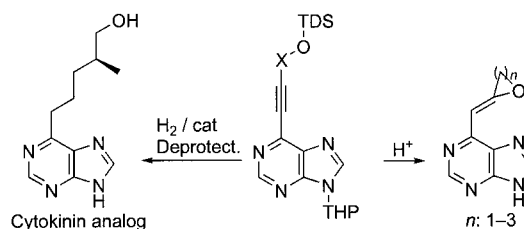
Keywords: Asymmetric catalysis / Ligand design / Bisoxazoline ligands / Non-proteinogenic amino acids / Chiral Lewis acids



4988 T. C. Berg, L.-L. Gundersen,* A. B. Eriksen,
K. E. Malterud

Synthesis of Optically Active 6-Alkynyl- and 6-Alkylpurines as Cytokinin Analogs and Inhibitors of 15-Lipoxygenase; Studies of Intramolecular Cyclization of 6-(Hydroxyalkyn-1-yl)purines

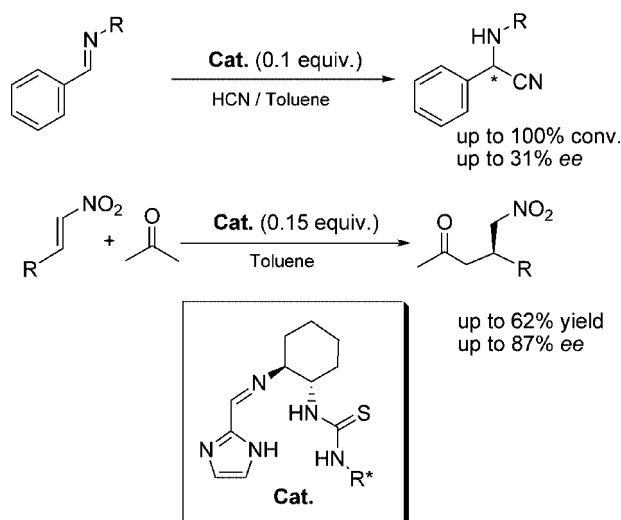
Keywords: Cross-coupling / Cyclization / Cytokinin / 15-Lipoxygenase / Purine



4995 S. B. Tsogoeva,* D. A. Yalalov,
M. J. Hateley, C. Weckbecker,
K. Huthmacher

Asymmetric Organocatalysis with Novel Chiral Thiourea Derivatives: Bifunctional Catalysts for the Strecker and Nitro-Michael Reactions

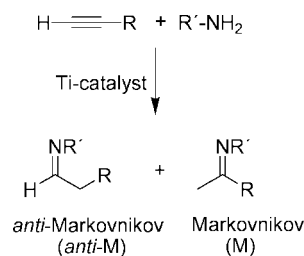
Keywords: Strecker synthesis / Michael addition / Asymmetric catalysis / Chiral thioureas / Bifunctional organocatalysts



5001 A. Tillack, V. Khedkar, H. Jiao, M. Beller*

A General Study of Aryloxo and Alkoxo Ligands in the Titanium-Catalyzed Intermolecular Hydroamination of Terminal Alkynes

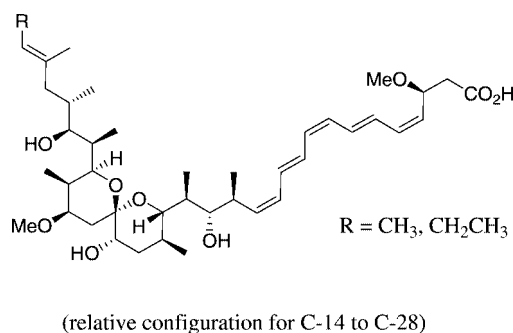
Keywords: Hydroamination / Markovnikov / anti-Markovnikov / Titanium complexes / DFT / Alkynes



5013 J. Niggemann,* N. Bedorf, U. Flörke,
H. Steinmetz, K. Gerth, H. Reichenbach,
G. Höfle

Spirangien A and B, Highly Cytotoxic and Antifungal Spiroketal from the Myxobacterium *Sorangium cellulosum*: Isolation, Structure Elucidation and Chemical Modifications

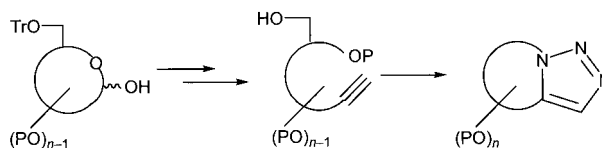
Keywords: Natural products / Myxobacteria / Structure elucidation / Spiro compounds / Ozonolysis / Olefin metathesis



5019 F. Dolhem, F. Al Tahli, C. Lièvre,*
G. Demailly

Efficient Synthesis of 1,2,3-Triazole-Fused Bicyclic Compounds from Aldoses

Keywords: Carbohydrates / Imino sugars / 1,5-Disubstituted 1,2,3-triazoles / *glyco*-Ynitol / 1,3-Dipolar cycloaddition

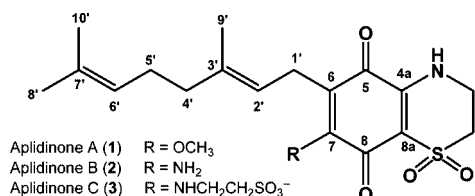


5024 A. Aiello, E. Fattorusso,* P. Luciano,
A. Mangoni, M. Menna



Isolation and Structure Determination of Aplidinones A–C from the Mediterranean Ascidian *Aplidium conicum*: A Successful Regiochemistry Assignment by Quantum Mechanical ^{13}C NMR Chemical Shift Calculations

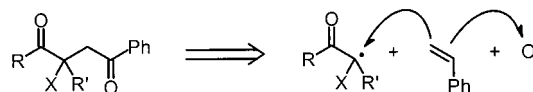
Keywords: Tunicates / Ascidians / Natural products / Quinones / NMR spectroscopy / Density functional calculations / GIAO



5031 M. Rössle, T. Werner, W. Frey,
J. Christoffers*

Cerium-Catalyzed, Aerobic Oxidative Synthesis of 1,2-Dioxane Derivatives from Styrene and Their Fragmentation into 1,4-Dicarbonyl Compounds

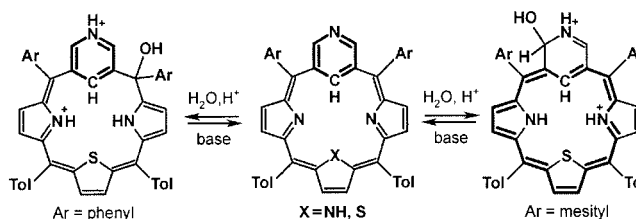
Keywords: Catalysis / Cerium / Oxidation / 1,4-diketones / C–C bond formation / Peroxides



5039 R. Myśliborski, L. Latos-Grażyński*

Carbaporphyrinoids Containing a Pyridine Moiety: 3-Aza-*meta*-benzoporphyrin and 24-Thia-3-aza-*meta*-benzoporphyrin

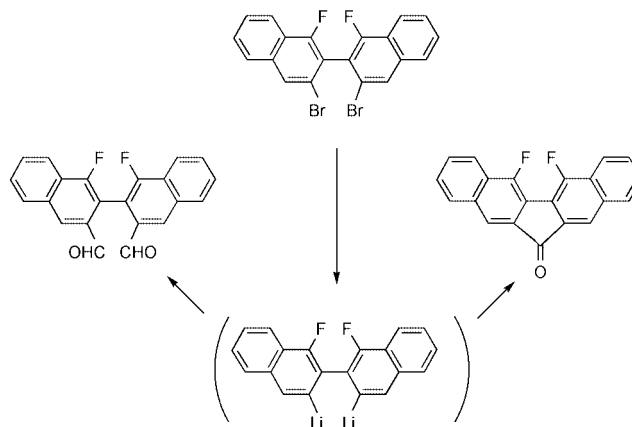
Keywords: Porphyrin / Carbaporphyrinoid / Phlorin / Chlorin / Pyriporphyrin



5049 F. Leroux, G. Mangano, M. Schlosser*

The Abnormal Behavior of an Atropisomer: 3,3'-Dibromo-1,1'-difluoro-2,2'-binaphthyl Reacting with Alkylolithium Compounds

Keywords: Aryl-aryl coupling / Atropisomers / Bis(phosphanes) / 1-Fluoronaphthalene / Halogen migration / Halogen/metal permutation / Hydrogen/metal permutation ("Metalation")

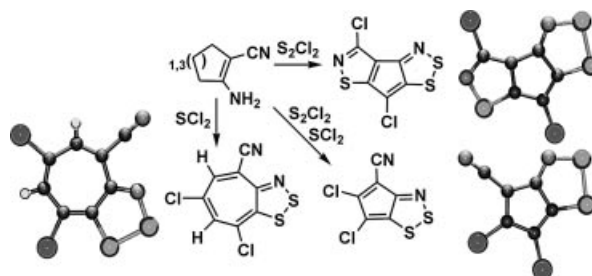


5055 T. Gómez, S. Macho, D. Miguel, A. G. Neo, T. Rodríguez, T. Torroba*



Cyclopentathiadiazines, Cyclohepta- and Cyclopentadithiazoles: New Materials and a Rich Heterocyclic Chemistry of Cyclic Enamino-nitriles

Keywords: Sulfur–nitrogen heterocycles / Materials science / Liquid crystals / Radicals / Fused-ring systems

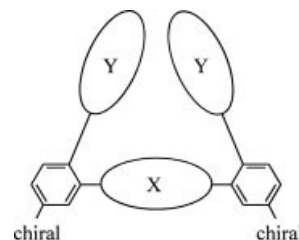


5067 T. Arai,* K. Takei, Y. Ogawa, N. Nishino



Interaction Between Terminal Zinc–Porphyrins in a U-Shaped Trimeric Porphyrin Array Bearing Chiral Amino Acid Tails

Keywords: Amino acids / Circular dichroism / NMR spectroscopy / Porphyrins / Self-assembly

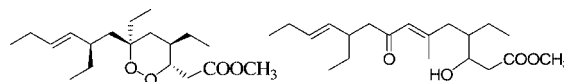


5ZFZ ; X = free base, Y = Zn
5F₃ ; X = Y = free base
5Z₃ ; X = Y = Zn

5077 C. Campagnuolo, E. Fattorusso, A. Romano, O. Tagliatela-Scafati,* N. Basilico, S. Parapini, D. Taramelli

Antimalarial Polyketide Cycloperoxides from the Marine Sponge *Plakortis simplex*

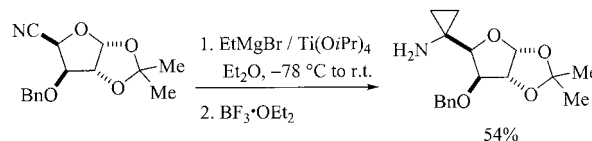
Keywords: Natural Products / Polyketides / Peroxides / Configuration determination / Antimalarial agents



5084 C. Laroche, J.-B. Behr, J. Szymoniak, P. Bertus,* R. Plantier-Royon*

Ti-Mediated Synthesis of Aminocyclopropyl-Substituted Carbohydrates

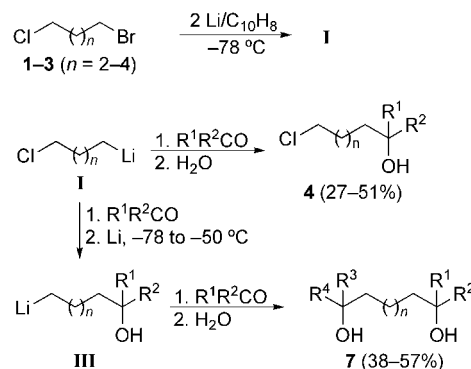
Keywords: Carbohydrates / Cyanides / Cyclopropanes / Grignard reagents / Titanium



5089 F. Foubelo,* A. Abou, M. Yus

Chemoselective Lithiation of 1-Bromo-*n*-chloroalkanes

Keywords: Selective lithiation / Diols / Chlorohydrins / Electrophilic substitution / 1-Bromo-*n*-chloroalkanes

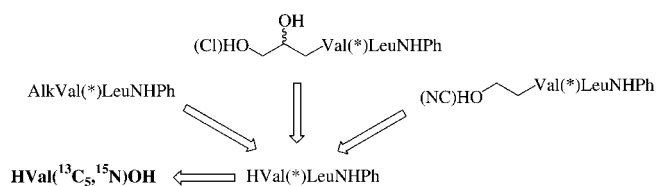


5094 V. N. Belov, M. Müller, O. Ignatenko,
E. Hallier, A. de Meijere*



Facile Access to Isotopically Labelled Valylleucyl Anilides as Biomarkers for the Quantification of Hemoglobin Adducts to Toxic Electrophiles

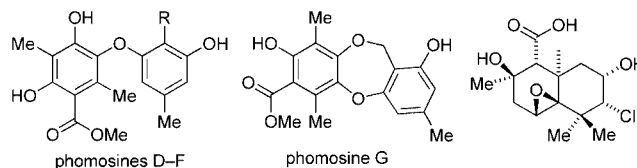
Keywords: Isotopic labelling / Toxicology / Peptidomimetics / Biomarkers / Hemoglobin adducts



5100 J. Dai, K. Krohn,* U. Flörke, D. Gehle,
H.-J. Aust, S. Draeger, B. Schulz,
J. Rheinheimer

Novel Highly Substituted Biraryl Ethers, Phomosines D–G, Isolated from the Endophytic Fungus *Phomopsis* sp. from *Adenocarpus foliolosus*

Keywords: Fungal secondary metabolites / Phomosines D–G / Biraryl ethers / *Phomopsis* sp. / X-ray single crystal analysis / Structural elucidation / fungal endophyte



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