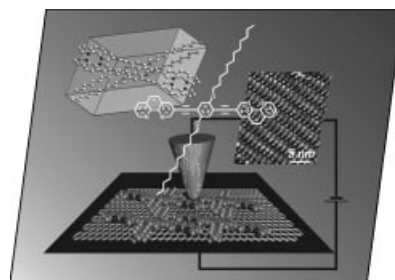


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COVER PICTURE

The cover picture shows a comparison between 2D and 3D architectures of bisphenanthrolines. The architecture of 2D self-assembled surface monolayers was explored by scanning tunneling microscopy (STM) at the solid–liquid interface, while 3D structures of the same compounds were elucidated in the solid state by X-ray structure analysis. Details are discussed in the article by M. Schmitt et al. on p. 3079 ff.



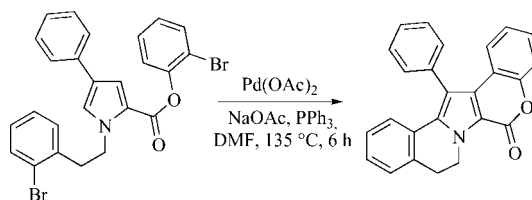
MICROREVIEW

Contents

3043 M. G. Banwell,* T. E. Goodwin, S. Ng,
 J. A. Smith, D. J. Wong

Palladium-Catalysed Cross-Coupling and Related Reactions Involving Pyrroles

Keywords: Carbonylation / Cross-coupling / Heck reaction / Natural products / Pyrroles

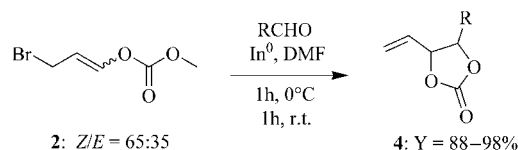


SHORT COMMUNICATIONS

3061 M. Lombardo,* F. Pasi, C. Trombini*



3-Bromopropenyl Methylcarbonate in Organic Synthesis: A Straightforward Approach to 4,5-Disubstituted 5-Vinyl-1,3-dioxolan-2-ones

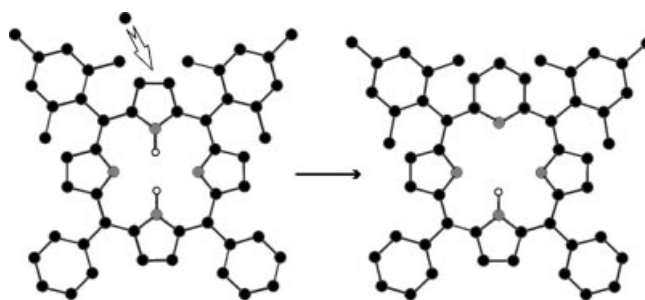


Keywords: 3-Bromopropenyl methylcarbonate / Indium / Oxidative addition / Organoindium / 5-Vinyl-1,3-dioxolan-2-ones

3064 R. Myśliborski, L. Latos-Grażyński,*
L. Szterenber



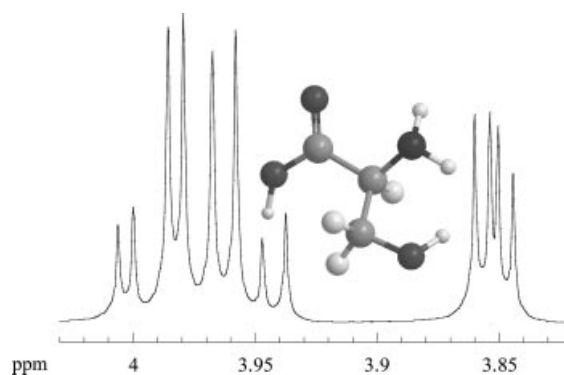
Pyriporphyrin – A Porphyrin Homologue Containing A Built-in Pyridine Moiety



Keywords: Core-modified porphyrin / (Porphyrin)-iron / Porphyrinoid / Pyriporphyrin

3069 S. Vandenbussche, G. Vandenbussche,
J. Reisse, K. Bartik*

Do Serine Octamers Exist in Solution? Relevance of this Question in the Context of the Origin of Homochirality on Earth

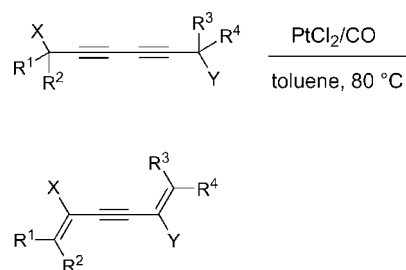


Keywords: Chirality / Amino acids / DOSY-NMR / Prebiotic chemistry / Clusters

3074 E. J. Cho, M. Kim, D. Lee*



Metal-Catalyzed Bond Reorganization of 1,3-Diynes



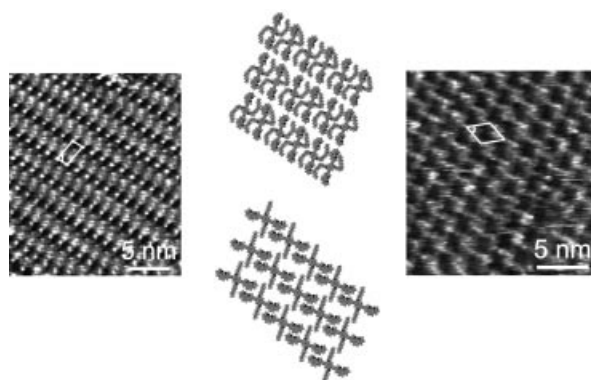
Keywords: Rearrangement / 1,3-Diyne / 1,5-Dien-3-yne / Metal carbene / Metallotropic [1,3]-shift

FULL PAPERS

3079 M. Schmittl,* V. Kalsani, F. Jäckel,
J. P. Rabe, J. W. Bats, D. Fenske

Rigid Bisphenanthrolines: Synthesis, Structure and Self-Assembly at a Solid-Liquid Interface

Keywords: Synthesis / Phenanthrolines / Self-assembly / Solid-liquid interface / X-ray diffraction

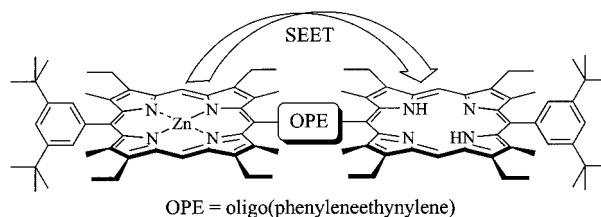


3087 T. Ljungdahl, K. Pettersson, B. Albinsson,
J. Mårtensson*



Geometrically Homogenous Series of Covalently Linked Zinc/Free-Base Porphyrin Dimers of Varying Length; Design, Synthesis and Characterization

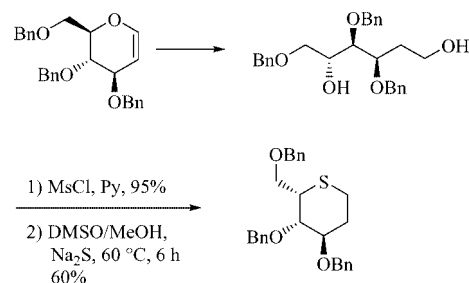
Keywords: Bridge-mediated coupling / Cross-coupling / Donor-acceptor systems / Porphyrin



3097 P. Passacantilli,* C. Centore, E. Ciliberti,
F. Leonelli, G. Piancatelli*

A Highly Efficient and Stereocontrolled Synthesis of 2-Deoxy-1,5-thioanhydro-L-hexitols from D-Glycals in a Tandem Nucleophilic Displacement Reaction

Keywords: Carbohydrates / Glycals / S-Heterocyclization

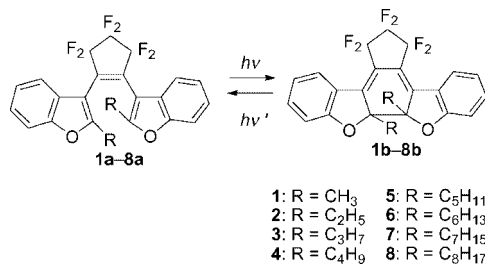


3105 T. Yamaguchi,* M. Irie*



Photochromism of 1,2-Bis(2-alkyl-1-benzofuran-3-yl)perfluorocyclopentene Derivatives

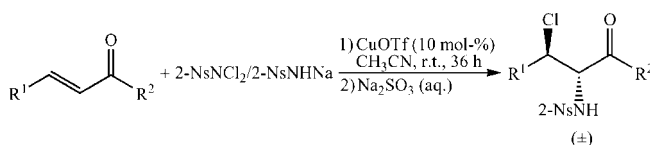
Keywords: Photochromism / Fused-ring systems / Benzofurans



3112 J. Liu, Y. Wang, G. Li*

Regio- and Stereoselective Synthesis of *anti*-1,3-Diaryl-3-chloro-2-(*o*-nitrophenylsulfonylamino)-3-propan-1-ones through Catalytic Aminohalogenation Reaction of α,β -Unsaturated Ketones

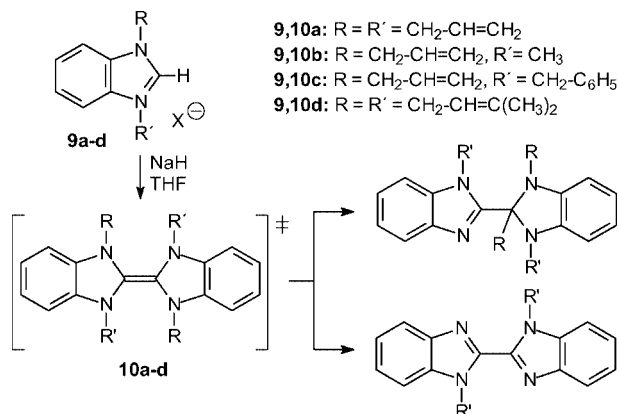
Keywords: Aminohalogenation / Haloamine / Copper(I) triflate



3116 C. Holtgrewe, C. Diedrich, T. Pape,
S. Grimme,* F. E. Hahn*

Rearrangement of Electron-Rich *N*-Allyldibenzotetraazafulvalenes – An Experimental and Theoretical Study

Keywords: Benimidazolin-2-ylidenes / Dibenzotetraazafulvalenes / Allyl substituents / Rearrangement / DFT calculations

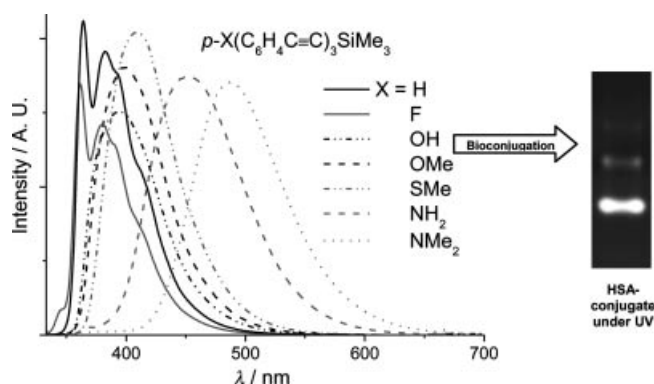


3125 Y.-G. Zhi, S.-W. Lai,* Q. K.-W. Chan,
Y.-C. Law, G. S.-M. Tong, C.-M. Che*



Systematic Studies on Photoluminescence of Oligo(arylene-ethynylene)s: Tunability of Excited States and Derivatization as Luminescent Labeling Probes for Proteins

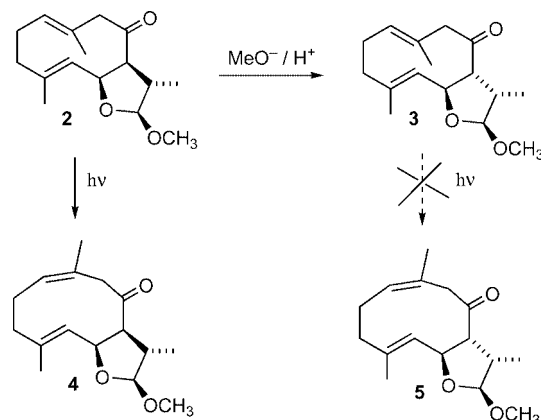
Keywords: Oligo(phenylene-ethynylene) / π -Conjugation / Fluorescence / Solvatochromism / Protein-labeling



3140 G. Croce, M. Milanese,* D. Viterbo,
M. Clericuzio, P. Ugliengo, G. Appendino

Anionic and Photochemical Behaviour of the Medium-Sized Terpenoid Ketone 8-Dehydro-12-*O*-methyl-deacylhallerin

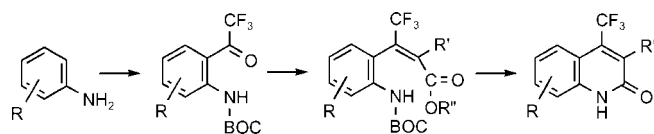
Keywords: Terpenoids / Isomerization / Photochemistry / Molecular modelling / X-ray diffraction



3147 F. Leroux, O. Lefebvre, M. Schlosser*

The “Off-Shore” Construction of Optionally Substituted 4-Trifluoromethyl-2-quinolinones

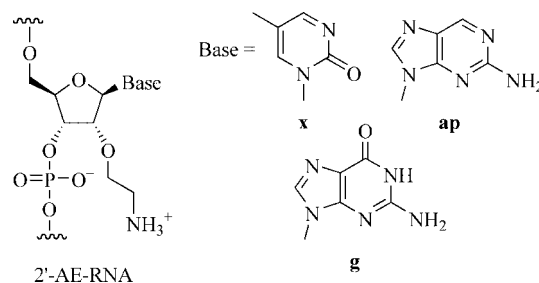
Keywords: Heterocyclic chemistry / *ortho*-Lithiation of anilines / Trifluoroacetylation / Wittig olefination / Ring closure / Regiocontrol



3152 S. Buchini, C. J. Leumann*

2'-*O*-Aminoethyl Oligoribonucleotides Containing Novel Base Analogues: Synthesis and Triple-Helix Formation At Pyrimidine/Purine Inversion Sites

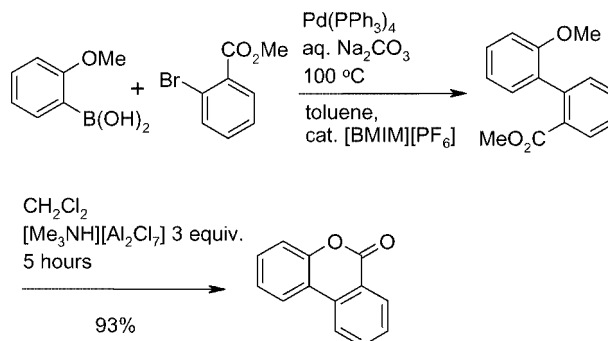
Keywords: Antisense agents / Antigene agents / DNA recognition / oligonucleotides / DNA triple helix



3169 G. J. Kemperman,* B. Ter Horst, D. Van de Goor, T. Roeters, J. Bergwerff, R. Van der Eem, J. Basten

The Synthesis of Substituted Benzo[*c*]chromen-6-ones by a Suzuki Coupling and Lactonization Sequence Using Ionic Liquids – from Laboratory Scale to Multi-Kilogram Synthesis

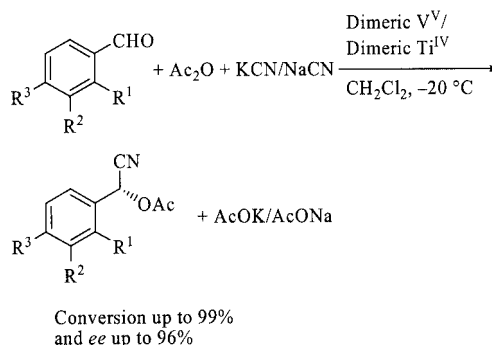
Keywords: Ionic liquids / Lactonization / Suzuki coupling / Benzo[*c*]chromen-6-one



3175 N. H. Khan,* S. Agrawal, R. I. Kureshy, S. H. R. Abdi, V. J. Mayani, R. V. Jasra

Asymmetric Synthesis of *O*-Acetylcyanohydrins by Reaction of Aldehydes with NaCN/KCN Catalyzed by Recyclable Chiral Dimeric Titanium(IV)/Vanadium(V) Salen Complexes

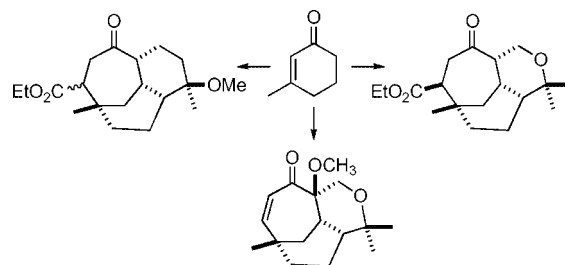
Keywords: Cyanohydrins / Catalysis / Dimeric Ti^{IV}/V^V salen complexes



3181 B. D. Schwartz, D. P. Tilly, R. Heim, S. Wiedemann, C. M. Williams,* P. V. Bernhardt

Towards the Total Synthesis of Vibsanin E, 15-*O*-Methylcyclovibsanin B, 3-Hydroxyvibsanin E, Furanovibsanin A, and 3-*O*-Methylfuranovibsanin A

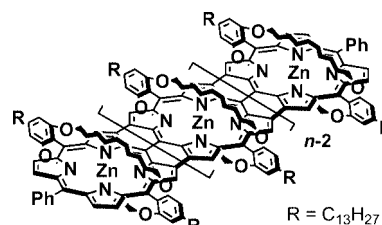
Keywords: Natural products / Terpenoids / Diterpenes / Vibsanin / Ring expansion



3193 T. Ikeda, J. M. Lintuluoto, N. Aratani, Z. S. Yoon, D. Kim,* A. Osuka*

Synthesis of Doubly Strapped *meso*–*meso*-Linked Porphyrin Arrays and Triply Linked Conjugated Porphyrin Tapes

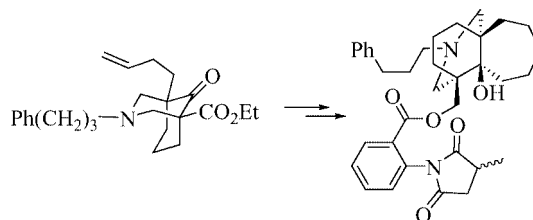
Keywords: Conjugation / Encapsulation / Molecular wires / Oligomerization / Porphyrinoids



3205 A. Lehmann, C. Brocke, D. Barker,*
M. A. Brimble*

Synthesis of *N*-(3-Phenylpropyl)-Substituted Tricyclic ABE Ring Analogues of the Alkaloid Methyllycaconitine

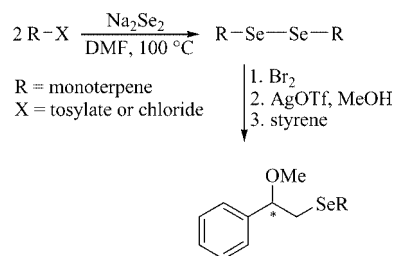
Keywords: Alkaloids / Mannich bases / Aminoalkylation / Ring-closing metathesis



3216 J. Ścianowski,* Z. Rafiński, A. Wojtczak

Syntheses and Reactions of New Optically Active Terpene Dialkyl Diselenides

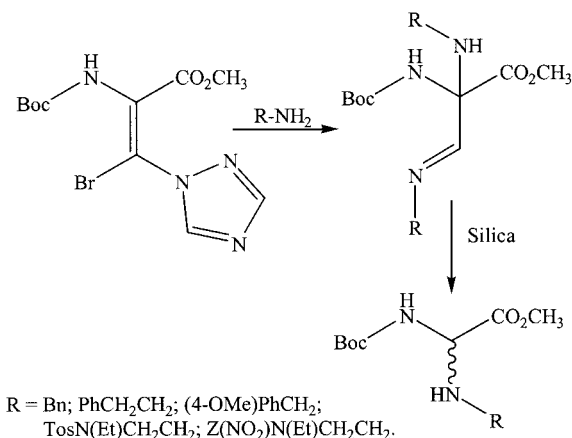
Keywords: Terpenoids / Selenium / Electrophilic addition / Asymmetric synthesis



3226 P. M. T. Ferreira,* L. S. Monteiro

Synthesis and Reactivity of β -Bromo- β -Substituted Dehydroalanines

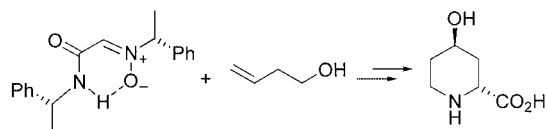
Keywords: Nonproteinogenic amino acids / Alanine derivatives / Glycine derivatives



3235 F. M. Cordero,* S. Bonollo, F. Machetti,
A. Brandi*

The Synthesis of 4-Hydroxypipelicolic Acids by Stereoselective Cycloaddition of Configurationally Stable Nitrones

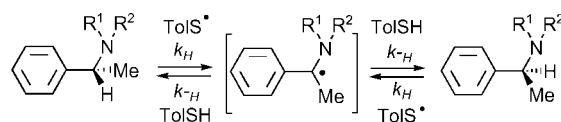
Keywords: Amino acids / Cycloaddition / Diastereoselectivity / Nitrogen heterocycles



3242 S. Escoubet, S. Gastaldi, N. Vanthuyne,
G. Gil, D. Siri, M. P. Bertrand*

Thiyl Radical Mediated Racemization of Benzylic Amines

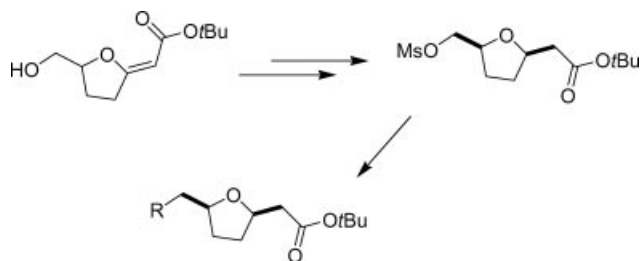
Keywords: Amines / Density functional calculations / Racemization / Radical reactions



3251 I. Freifeld, E. Holtz, G. Dahmann,
P. Langer*

Diversity-Oriented Synthesis of 2,5-Disubstituted Tetrahydrofurans Based on a “Cyclization-Hydrogenation-Substitution” Strategy

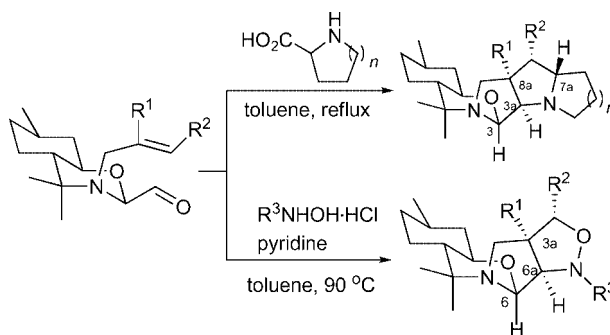
Keywords: Cyclizations / Tetrahydrofurans / Hydrogenation / Nucleophilic substitutions



3259 R. Pedrosa,* C. Andrés,* J. Nieto,
C. Pérez-Cuadrado, I. San Francisco

An Efficient and Diastereoselective Intramolecular 1,3-Dipolar Cycloaddition of Cyclic Azomethine Ylides and Nitrones

Keywords: Asymmetric synthesis / Cyclizations / Dipolar cycloaddition / Isoxazolidines / Pyrrolidines



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