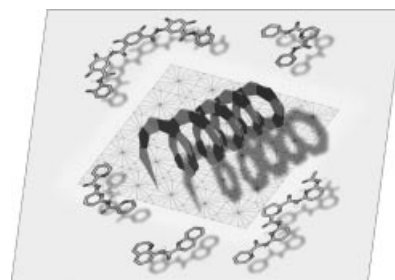


Earliest available Table of Contents:
 Automatically, free of charge by e-mail through
www.interscience.wiley.com/alerts

COVER PICTURE

The cover picture shows a photograph of a helical origami, based on a modular ring designed by David Petty, surrounded by five examples of building blocks used in aromatic oligoamide foldamers. The background is an unfolded origami paper displaying the crease pattern that codes for a well-defined folded shape. In the ancient Japanese art of paper folding, beautiful and complex yet predictable forms arise from a series of folding steps of a sheet of paper. Each step sets the relative orientation of the two sides of the fold. Similarly, the conformations of aromatic oligoamide foldamers are determined by interactions between consecutive units. In first approximation, the overall conformation is simply predicted as a linear combination of local conformational preferences. Details are discussed in the Microreview by I. Huc on p. 17ff. We thank Professor Louis Cuccia for his inspiration and major contribution to this image.



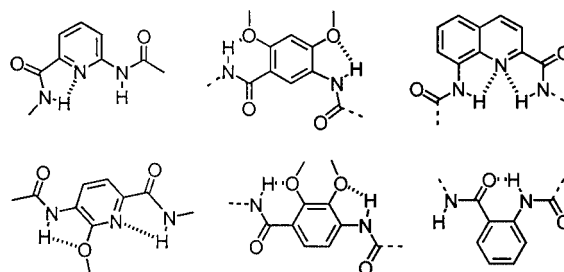
MICROREVIEW

Contents

17 I. Huc

Aromatic Oligoamide Foldamers

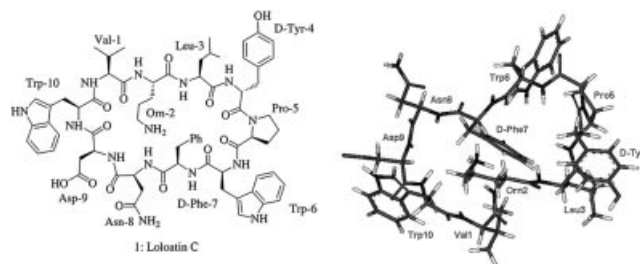
Keywords: Conformation analysis / Hydrogen bonds / Pi interactions / Helical structures / Supramolecular chemistry



- 31** H. Chen, R. K. Haynes,* J. Scherkenbeck,*
K. H. Sze, G. Zhu

Elucidation of the Solution Conformations of Loloatin C by NMR Spectroscopy and Molecular Simulation

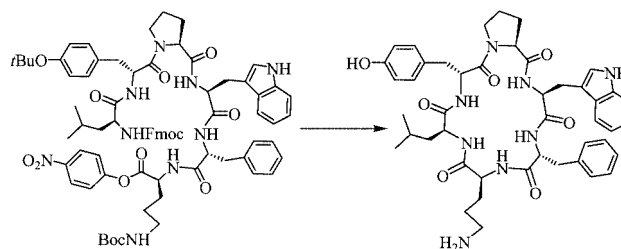
Keywords: Conformation analysis / Cyclic peptides / Molecular modelling / NMR spectroscopy



- 38** H. Chen, R. K. Haynes,* J. Scherkenbeck*

Synthesis of Cyclic Hexapeptides Based on the Antibiotic Cyclic Decapeptide Loloatin C by an in situ Indirect Cyclization Method

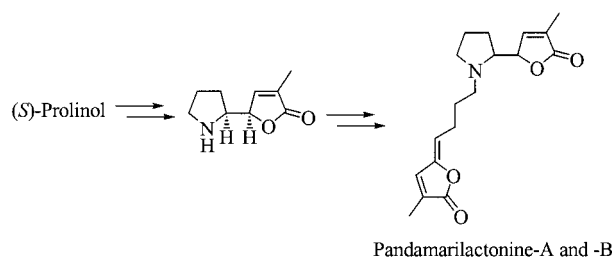
Keywords: Cyclic peptides / Cyclizations / Conformation analysis



- 48** P. Blanco, F. Busqué, P. de March,
M. Figueredo,* J. Font, E. Sanfeliu

Synthetic Studies on *Pandanus* Alkaloids: From Norpandamarilactonines to Pandamarilactonines, a Proof of Their Configurational Instability

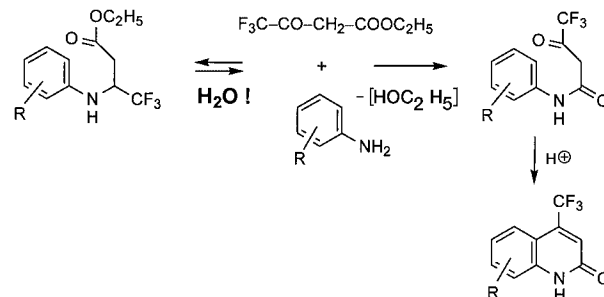
Keywords: Alkaloids / Total synthesis / Configurational stability



- 54** M. Marull, O. Lefebvre, M. Schlosser*

An Improved Access to 4-Trifluoromethyl-2(1*H*)-quinolinones: The “Watering Protocol”

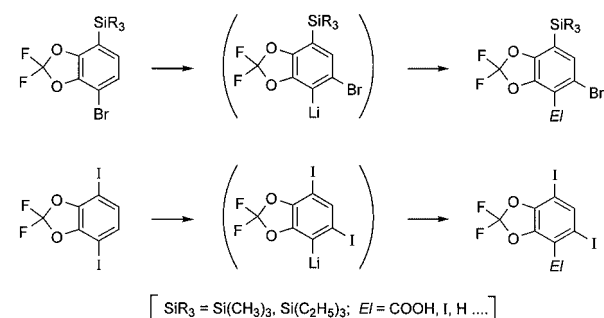
Keywords: Halogens / Heterocycles / Hydrogen-metal permutation / Regioselectivity / Trifluoromethyl substituents



- 64** J. Gorecka, F. Leroux, M. Schlosser*

Deprotonation-Triggered Heavy-Halogen Migrations as a Key to the Structural Elaboration of 2,2-Difluoro-1,3-benzodioxole

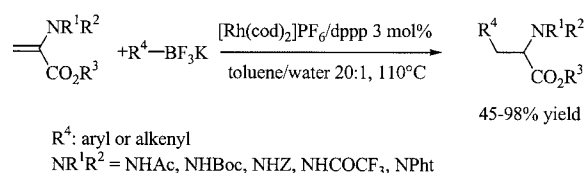
Keywords: Carboxylations / Deprotonation / Halogen migration / Iodine / Protective groups



69 L. Navarre, S. Darses,* J.-P. Genet*

Efficient Access to Alanine Derivatives by 1,4-Additions of Potassium Trifluoro(organo)-borates

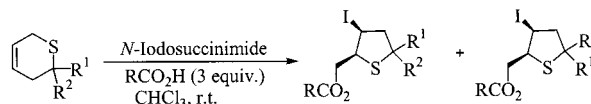
Keywords: Borates / Rhodium / Amino esters / Catalysis



74 A. C. B. Lucassen, B. Zwanenburg*

Ring Contraction of 3,6-Dihydro-2*H*-thiopyrans to Thiolanes by an Ido-Oxyacylation Reaction

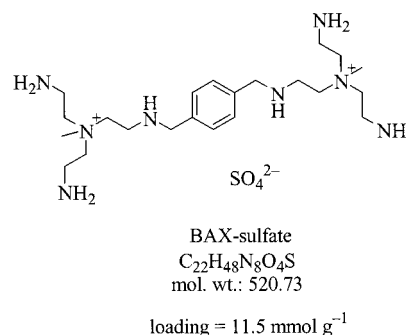
Keywords: Sulfur / Thiopyrans / Episulfonium ions / Ring contractions / Thiolanes



84 N. Ghanem, J. Martinez, D. Stien*

Quaternary Ammonium-Supported Scavenger Reagents for Acids and Electrophiles

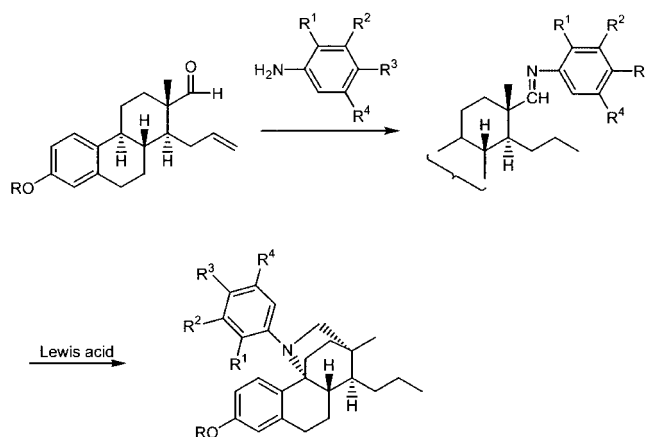
Keywords: Amines / Scavenger reagents / Electrophiles trapping / Lewis acids



90 J. Wölfling,* É. Frank, G. Schneider, L. F. Tietze*

Synthesis of Novel D-Secoestrone Isoquinuclidines by an Unpredicted Iminium Ion-Induced 1,5-Hydride Shift

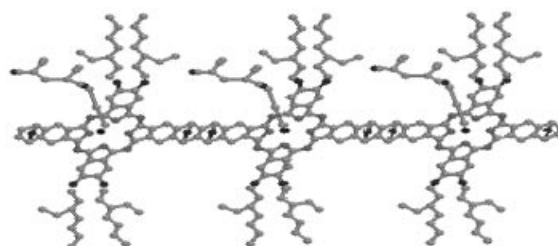
Keywords: Benzylic carbon / Hydrides / Iminium salts / Lewis acids



101 T. E. Youssef, S. O'Flaherty, W. Blau, M. Hanack*

Phthalocyaninatoindium(III) Acetylacetonates for Nonlinear Optics

Keywords: Indium / Phthalocyanines / Cycloaddition / Nonlinear optical properties / Optical limiting

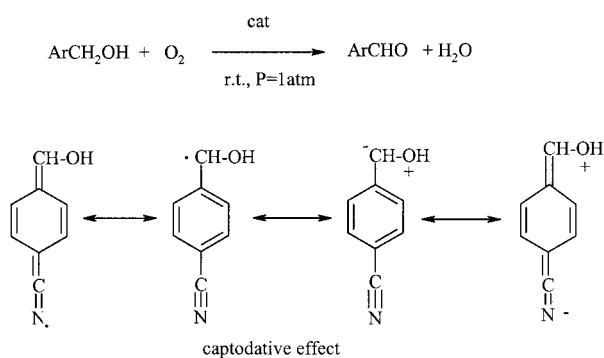


109

F. Minisci,* F. Recupero, A. Cecchetto,
C. Gambarotti, C. Punta, R. Faletti,
R. Paganelli, G. F. Pedulli

Mechanisms of the Aerobic Oxidation of Alcohols to Aldehydes and Ketones, Catalysed under Mild Conditions by Persistent and Non-Persistent Nitroxyl Radicals and Transition Metal Salts – Polar, Enthalpic, and Captodative Effects

Keywords: Alcohols / Aldehydes / Radicals / Redox chemistry / Transition metals

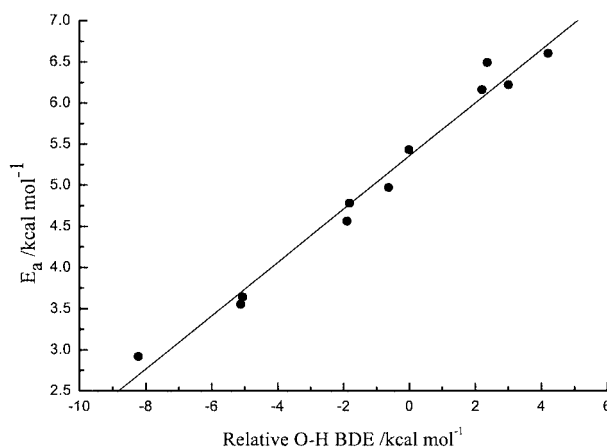


120

Y.-M. Sun, C.-B. Liu*

A Comparison of Transition States During H-Atom Abstraction of Monophenols and Catechol by Methyl Radical

Keywords: Activation energy / Catechol / Density functional calculations / H-atom abstraction / Monophenols

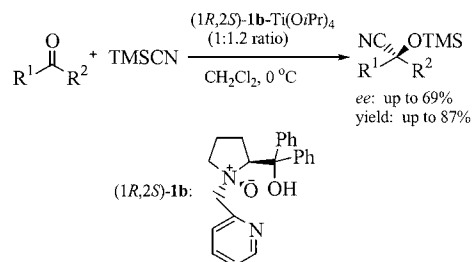


129

Y. Shen, X. Feng,* Y. Li, G. Zhang, Y. Jiang

Asymmetric Cyanosilylation of Ketones Catalyzed by Bifunctional Chiral *N*-Oxide Titanium Complex Catalysts

Keywords: Asymmetric catalysis / Asymmetric synthesis / Enantioselectivity / Ketones / N,O ligands

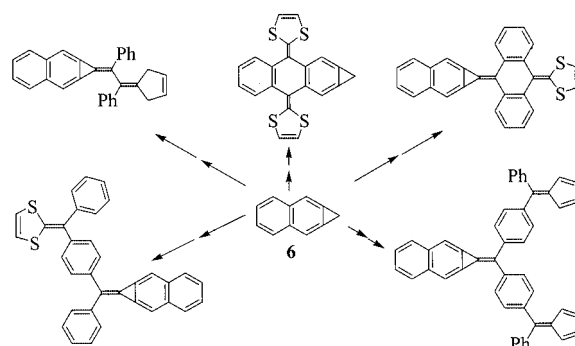


138

B. Halton,* C. S. Jones

Conjugated and Cross-Conjugated π -Extended Cycloproparenes with Dithiole and Cyclopentadiene Functionality

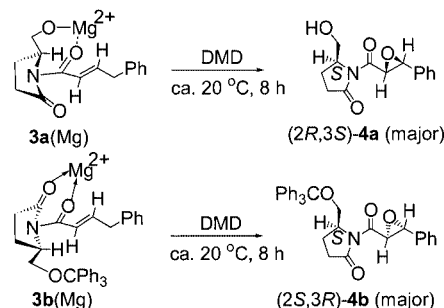
Keywords: Small ring systems / Arenes / Hydrocarbons / Sulfur heterocycles / Peterson olefination / Wittig–Horner reactions / Strained molecules



147 W. Adam, A. Zhang*

High π -Facial Selectivity Through Chelation of Magnesium Ions in the DMD Epoxidation of α,β -Unsaturated Imides with Chiral Pyrrolidinone Auxiliaries

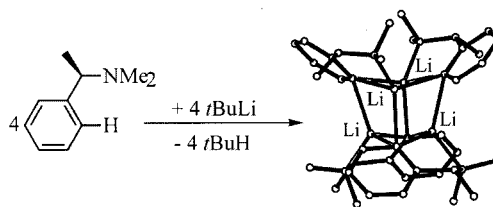
Keywords: Chiral auxiliaries / Dioxirane / Epoxidation / Mechanism / Metal chelation



153 C. M. P. Kronenburg, E. Rijnberg, J. T. B. H. Jastrzebski, H. Kooijman, A. L. Spek, G. van Koten*

Stereochemical Aspects of Enantiopure and Racemic Organolithium Aggregates Li_4Ar_4 {Ar = $\text{C}_6\text{H}_4[\text{CH}(\text{Me})\text{NMe}_2]-2$ }

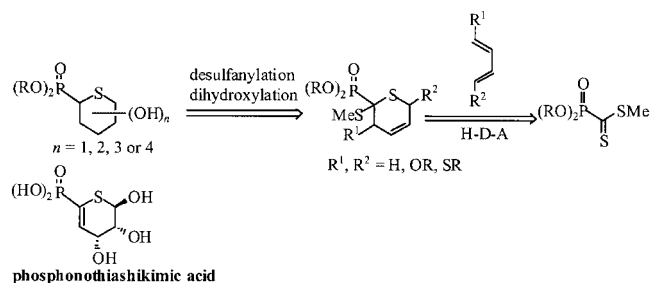
Keywords: Lithiation / Lithium / Racemic compounds / Structure elucidation



160 M. Heras, M. Gulea, S. Masson,* C. Philouze

A Hetero-Diels–Alder Approach to Phosphonothiasikimic Acid and New Thiaglycosides

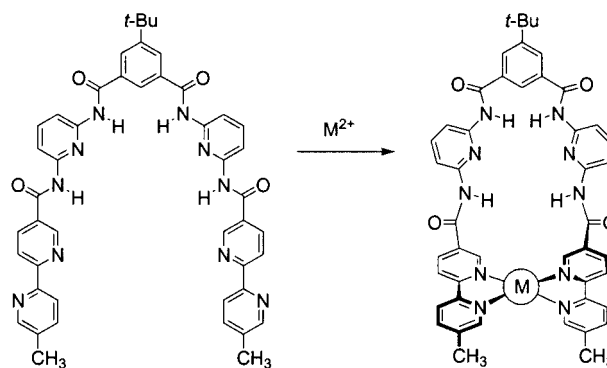
Keywords: Cycloaddition / Dithioester / Glycosides / Phosphonodithioformate



173 M. H. Al-Sayah, R. McDonald, N. R. Branda*

Structural Studies on Hydrogen-Bonding Receptors for Barbiturate Guests That Use Metal Ions as Allosteric Inhibitors

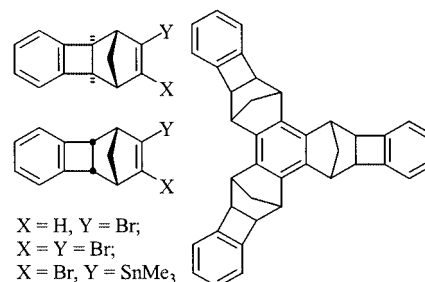
Keywords: Allosterism / Host-guest systems / Hydrogen bonds / Molecular recognition / Receptors



183 A. Dastan,* E. Uzundumlu, M. Balci, F. Fabris, O. De Lucchi

An Investigation on the Synthesis of New Molecular Architectures from the Cyclotrimerisation of *exo*- and *endo*-Benzotricyclo[4.2.1.0^{2,5}]nonene

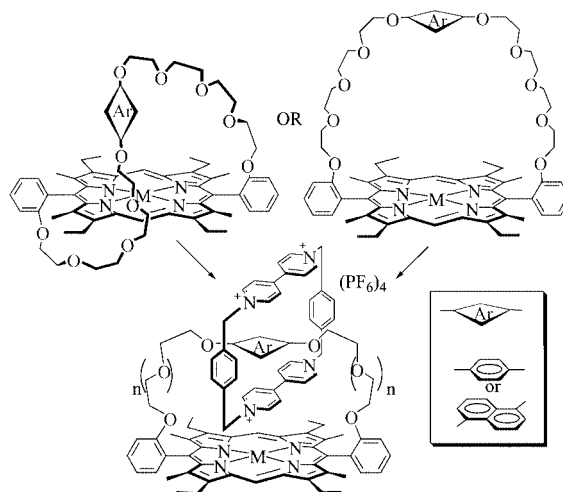
Keywords: Arenes / Copper / Cyclotrimerisation / High-temperature bromination / Norbornene



193 M. J. Gunter,* T. P. Jaynes, P. Turner



Structural Homology and Dynamic Variation in a Series of Porphyrin Bipyridinium Receptors and Their [2]Catenanes

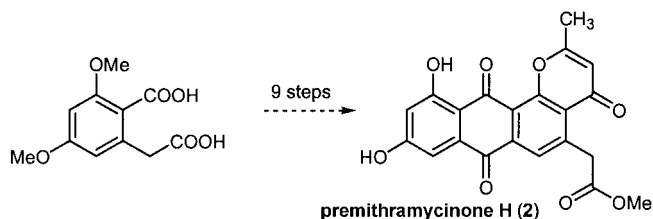


Keywords: Porphyrins / Catenanes / Dynamics / Bipyridinium / Receptors

209 K. Krohn,* J. Vitz



Total Synthesis of Premithramycinone H and Related Anthrapyran Antibiotics



Keywords: Antibiotics / Natural products / Total synthesis / Antitumor agents