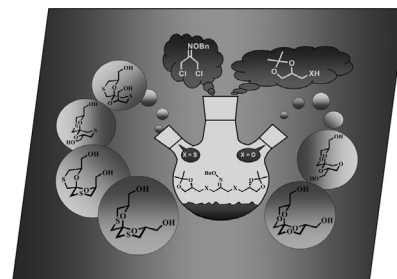


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## COVER PICTURE

The cover picture shows an original and efficient approach to chiral 1,4,7,10-tetraoxa- and 1,7-dioxa-4,10-dithiaspiro-[5.5]undecanes, involving a double substitution of a thiolate or an alcoholate on 1,3-dichloropropanone *O*-benzyloxime followed by a “one-pot” deprotection–spirocyclization process. The structure and configurations of all the synthesized spiroheterocycles were unambiguously established on the basis of NMR experiments. Details are discussed in the article by M. Goubert, I. Canet and M.-E. Sinibaldi on p. 4805 ff.



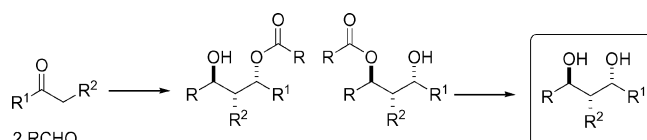
## MICROREVIEW

### Contents

4779 J. Mlynarski\*

Direct Asymmetric Aldol-Tishchenko Reaction

**Keywords:** Direct aldol condensation / Asymmetric catalysis / Synthetic methods / Tishchenko reaction / 1,3-Diols

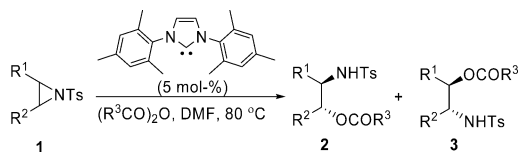


## SHORT COMMUNICATIONS

4787 X. Sun, S. Ye, J. Wu\*

N-Heterocyclic Carbene: An Efficient Catalyst for the Ring-Opening Reaction of Aziridine with Acid Anhydride

**Keywords:** Aziridines / Heterocyclic carbenes / Anhydrides

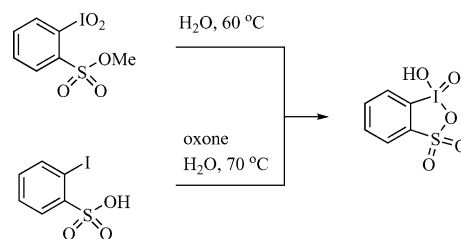


4791 A. Y. Koposov, D. N. Litvinov,  
V. V. Zhdankin,\* M. J. Ferguson,  
R. McDonald, R. R. Tykwinski



Preparation and Reductive Decomposition of 2-Iodoxybenzenesulfonic Acid; X-ray Crystal Structure of 1-Hydroxy-1*H*-1,2,3-benziodoxathiole 3,3-Dioxide

**Keywords:** Iodine / Hypervalent compounds / Oxidation / X-ray diffraction

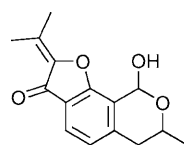


4796 F. Saito, K. Kuramochi, A. Nakazaki,  
Y. Mizushima, F. Sugawara, S. Kobayashi\*

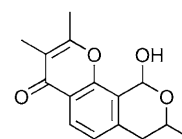


Synthesis and Absolute Configuration of (+)-Pseudodelectusin: Structural Revision of Aspergione B

**Keywords:** Total Synthesis / Natural products / Aromatic compounds / Carbonyl compounds / Stereochemistry



Pseudodelectusin

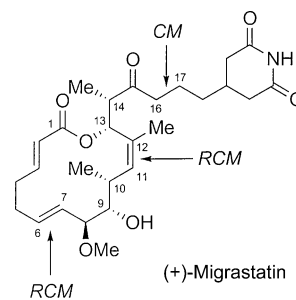


The proposed structure of Aspergione B

4800 S. Reymond, J. Cossy\*

Total Synthesis of (+)-Migrastatin

**Keywords:** Ring-closing metathesis / Crotyltitanation / Crotylstannylation / Cross-metathesis / Total synthesis



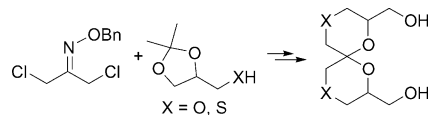
(+)-Migrastatin

## FULL PAPERS

4805 M. Goubert, I. Canet,\* M.-E. Sinibaldi\*

An Expedient Route to New Spiroheterocycles: Synthesis and Structural Studies

**Keywords:** Spiro compounds / Heterocycles / Nucleophilic substitution / Cyclization

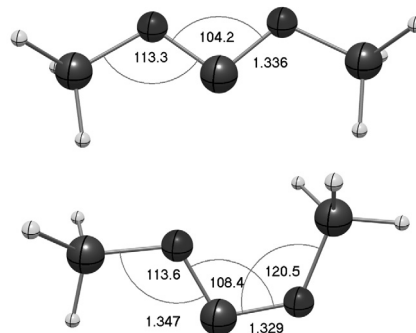


4813 H. P. Reisenauer, J. Romanski, G. Mloston,  
P. R. Schreiner\*



Dimethoxycarbene: Conformational Analysis of a Reactive Intermediate

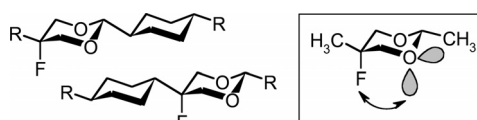
**Keywords:** Carbenes / Computational chemistry / Conformational analysis / IR spectroscopy / Matrix isolation



4819 P. Kirsch,\* A. Hahn, R. Fröhlich, G. Haufe

Liquid Crystals Based on Axially Fluorinated 1,3-Dioxanes: Synthesis, Properties and Computational Study

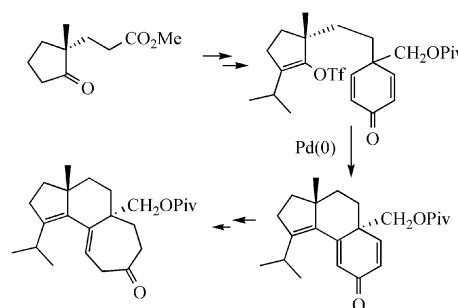
**Keywords:** Liquid crystals / Dielectric anisotropy, negative / DFT calculations / Mesogens / Fluorine / 4-ax-Fluoro-1,3-dioxane



4825 E. Drège, C. Tominiaux, G. Morgant,  
D. Desmaële\*

Synthetic Studies on Cyathin Terpenoids: Enantioselective Synthesis of the Tricyclic Core of Cyathin through Intramolecular Heck Cyclisation

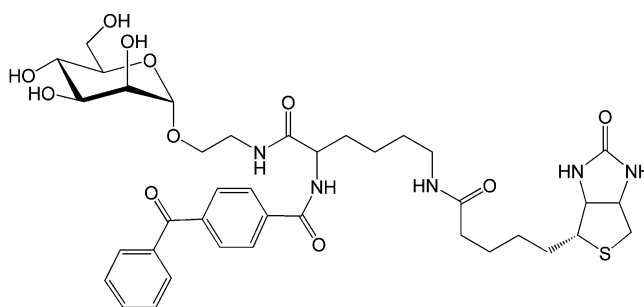
**Keywords:** Terpenoids / Heck reaction / Palladium / Ring enlargement / Michael addition / Enantioselectivity



4841 M. Wiegand, T. K. Lindhorst\*

Synthesis of Photoactive  $\alpha$ -Mannosides and Mannosyl Peptides and Their Evaluation for Lectin Labeling

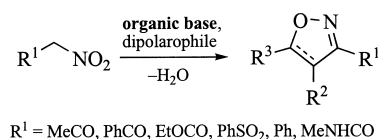
**Keywords:** Carbohydrates / Lectins / Photoaffinity labeling / Mannosylation / Biotinylation



4852 L. Cecchi, F. De Sarlo,\* F. Machetti\*

1,4-Diazabicyclo[2.2.2]octane (DABCO) as an Efficient Reagent for the Synthesis of Isoxazole Derivatives from Primary Nitro Compounds and Dipolarophiles: The Role of the Base

**Keywords:** DABCO / Cycloaddition / Nitro compounds / Heterocycles

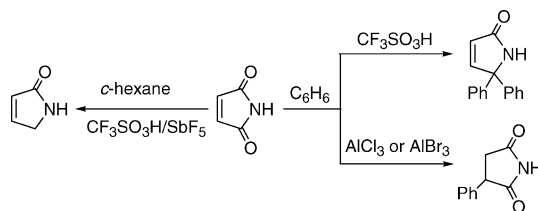


**4861** K. Yu. Koltunov,\* G. K. S. Prakash,  
G. Rasul, G. A. Olah



Superacidic Activation of Maleimide and Phthalimide and Their Reactions with Cyclohexane and Arenes

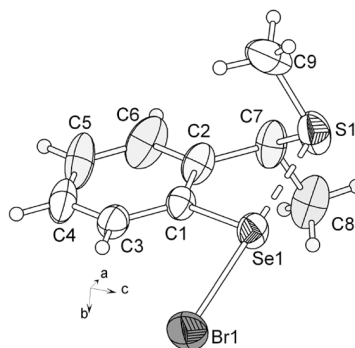
**Keywords:** Superacids / Imides / Electrophilic reactions / Superelectrophilic activation / Density functional calculations



**4867** M. Tiecco,\* L. Testaferri, C. Santi,  
C. Tomassini, S. Santoro, F. Marini,  
L. Bagnoli, A. Temperini, F. Costantino

Intramolecular Nonbonding Interactions between Selenium and Sulfur – Spectroscopic Evidence and Importance in Asymmetric Synthesis

**Keywords:** Asymmetric electrophilic additions / Chiral selenenylating reagents / Noncovalent interactions / Selenium / Sulfur

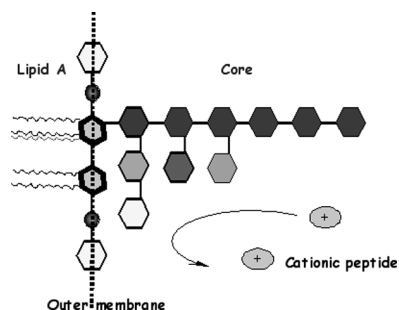


**4874** A. Silipo, A. Molinaro,\* D. Comegna,  
L. Sturiale, P. Cescutti, D. Garozzo,  
R. Lanzetta, M. Parrilli



Full Structural Characterisation of the Lipooligosaccharide of a *Burkholderia pyrrocinia* Clinical Isolate

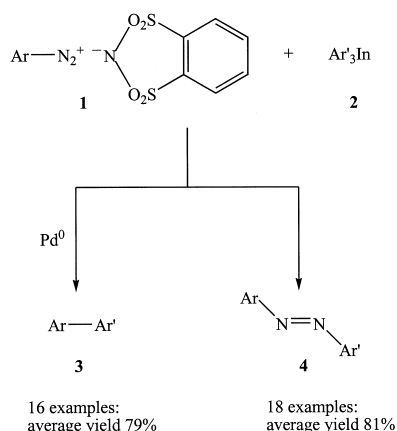
**Keywords:** Lipopolysaccharides / Cystic fibrosis / Natural products



**4884** M. Barbero, S. Cadamuro, S. Dughera,\*  
C. Giaveno

Reactions of Dry Arenediazonium *o*-Benzenedisulfonimides with Triorganoindium Compounds

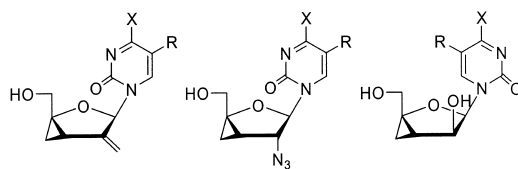
**Keywords:** Indium / Cross-coupling / Palladium / Diazo compounds



4891 J. Gagneron, G. Gosselin, C. Mathé\*



Synthesis and Conformational Analysis of C-4'-Modified (2-Oxabicyclo[3.1.0]hexyl)pyrimidine Nucleosides

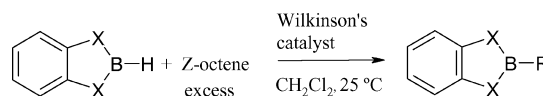


5 (X = OH, R = H) 13 (X = OH, R = H) 16 (X = OH, R = H)  
 6 (X = OH, R = CH<sub>3</sub>) 14 (X = OH, R = CH<sub>3</sub>) 17 (X = OH, R = CH<sub>3</sub>)  
 8 (X = NH<sub>2</sub>, R = H) 15 (X = NH<sub>2</sub>, R = H) 19 (X = NH<sub>2</sub>, R = H)

**Keywords:** Nucleosides / Conformational restriction / Bicyclic ring systems / Molecular modeling

4898 S. W. Hadebe, R. S. Robinson\*

Rhodium-Catalyzed Hydroboration Reactions with Sulfur- and Nitrogen Analogues of Catecholborane

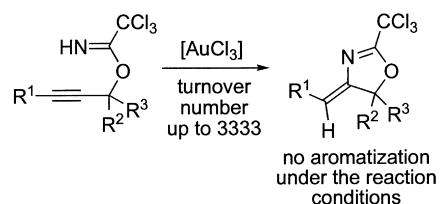


Where X = O, S and N-H  
 Z = 1 or *trans*-4  
 R = octyl or pentyl-1-propyl

**Keywords:** Rhodium / Homogeneous catalysis / Hydroboration / Boranes / Olefins

4905 A. S. K. Hashmi,\* M. Rudolph, S. Schymura, J. Visus, W. Frey

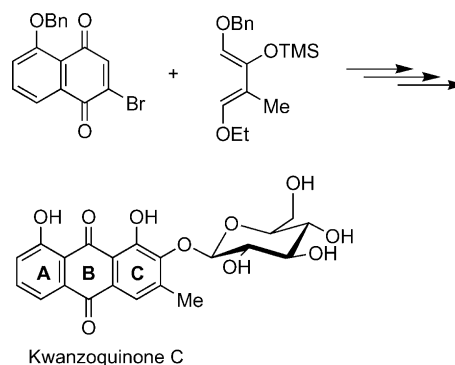
Gold Catalysis: Alkylideneoxazolines and -oxazoles from Intramolecular Hydroamination of an Alkyne by a Trichloroacetimidate



**Keywords:** Alkynes / Gold / Homogeneous catalysis / Hydroamination / Oxazoles / Oxazolines

4910 L. F. Tietze,\* K. M. Gericke, C. Güntner

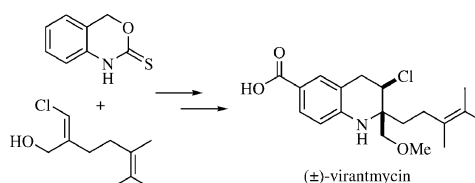
First Total Synthesis of the Bioactive Anthraquinone Kwanzoquinone C and Related Natural Products by a Diels–Alder Approach



**Keywords:** Anthraquinones / Antitumor agents / Cycloadditions / Glycosidation / Natural products

4916 D. Keck, S. Vanderheiden, S. Bräse\*

A Formal Total Synthesis of Virantmycin: A Modular Approach towards Tetrahydroquinoline Natural Products

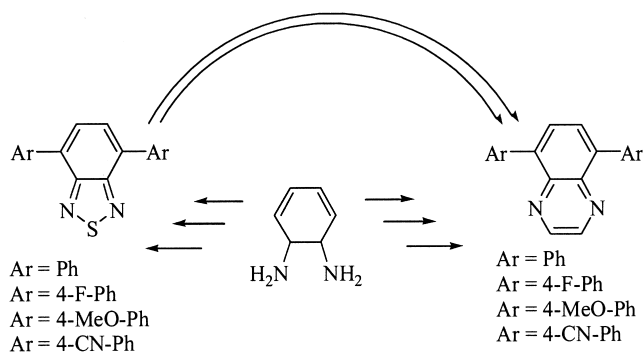


**Keywords:** Natural products / Antiviral agents / Cycloaddition / Heterocycles

4924 F. S. Mancilha, B. A. DaSilveira Neto,  
A. S. Lopes, P. F. Moreira Jr., F. H. Quina,  
R. S. Gonçalves, J. Dupont\*



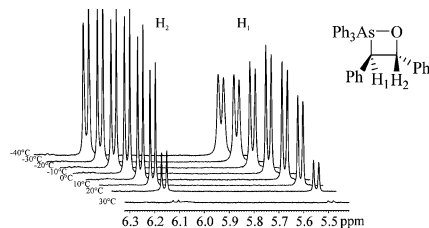
Are Molecular 5,8- $\pi$ -Extended Quinoxaline Derivatives Good Chromophores for Photoluminescence Applications?



**Keywords:** Quinoxalines / Benzothiadiazole / Luminescence / C–C coupling

4934 C. Raeck, S. Berger\*

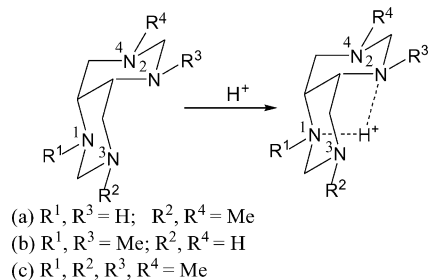
Comparative Study of the Phospha- and Arsa-Wittig Reaction Using  $^1\text{H}$ ,  $^{75}\text{As}$  and  $^{17}\text{O}$  NMR Spectroscopy



**Keywords:** Oxaarsetanes / Stereoselectivity / Wittig reactions / NMR spectroscopy

4938 A. Singh, S. Chakraborty, B. Ganguly\*

$\text{C}_2$ -Chiral Substituted *cis*-1,3,5,7-Tetraazadecalins as Proton Sponge: A Computational Study

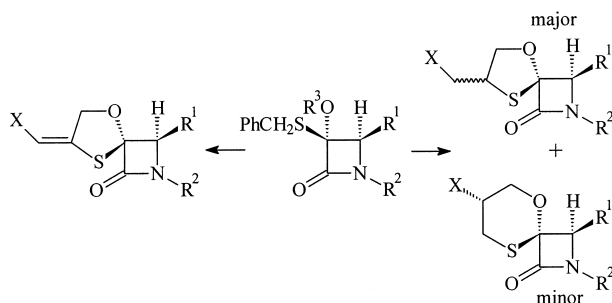


**Keywords:** Substituted azadecalins / Chiral ligands / DFT calculations / Proton Sponge / Substituent effects / Protonation

4943 A. Bhalla, P. Venugopalan, S. S. Bari\*



A New Synthetic Approach to Novel Spiro- $\beta$ -lactams



**Keywords:**  $\beta$ -Lactams / Spiro compounds / Halogen-mediated cyclization

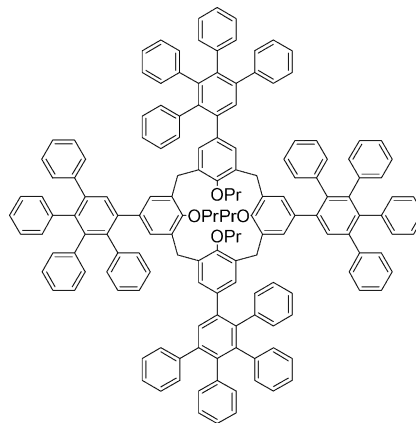
4951

M. Mastalerz, G. Dyker,\* U. Flörke,  
G. Henkel, I. M. Oppel, K. Merz



Oligophenylcalix[4]arenes as Potential Precursors for Funnelenes and Calix[4]triphenylenes: Syntheses and Preliminary Cyclodehydration Studies

**Keywords:** Calixarenes / Funnelenes / Palladium / Nanostructures / Supramolecular chemistry



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