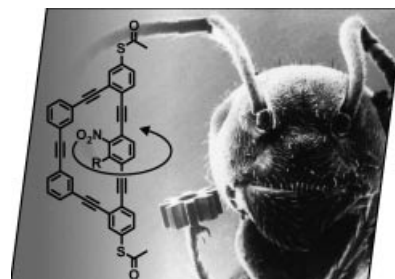


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COVER PICTURE

The cover picture shows a macrocyclic molecule comprising a mechanically revolving subunit as a potential electrical switch on a single molecule level. Mechanical concepts have already been applied very successfully at the Forschungszentrum Karlsruhe GmbH to minute objects like the tiny gearwheel in the micrometer range presented by an ant. The expansion of these ideas to molecular devices is a fascinating scientific challenge at the interface between chemistry and nanotechnology. The synthesis and characterization of the macrocycle are discussed in detail in the article by M. Mayor et al. on p. 3809 ff.



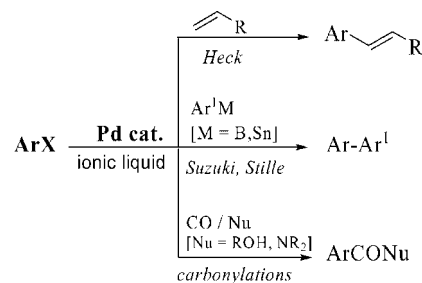
MICROREVIEW

Contents

3791 V. Calò,* A. Nacci, A. Monopoli

Effects of Ionic Liquids on Pd-Catalysed
 Carbon–Carbon Bond Formation

Keywords: Carbene ligands / Carbonylation / Heck
 reaction / Ionic liquids / Palladium /
 Suzuki reaction



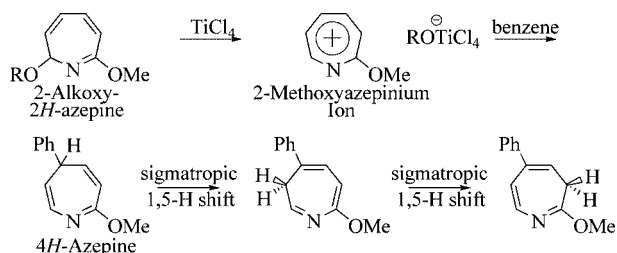
SHORT COMMUNICATIONS

3803 C. E. J. Cordonier, K. Satake,*
H. Okamoto, M. Kimura



Formation of 4*H*-Azepine by the Electrophilic Reaction of a 2-Methoxyazepinium Ion and Analysis of the Sigmatropic Isomerization

Keywords: Azepinium / 4*H*-Azepine / Density functional calculations / Heterocycles / 1,5-Hydrogen shift

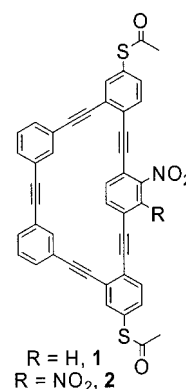


FULL PAPERS

3809 A. Błaszczyk, M. Chadim, C. von Hänisch,
M. Mayor*

Synthesis of Macrocyclic Molecular Rods as Potential Electronic Devices

Keywords: Macrocycles / Acetylene scaffolding / Molecular electronic / Sonogashira coupling



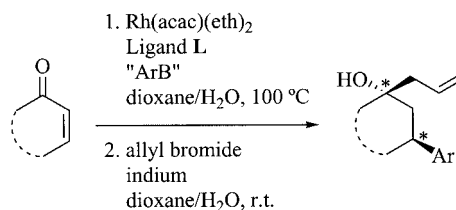
3826 S. Källström, R. B. C. Jagt, R. Sillanpää,
B. L. Feringa, A. J. Minnaard,* R. Leino*



Highly Enantio- and Diastereoselective One-Pot Reactions in Aqueous Media: Combined Asymmetric Rh-Catalyzed Conjugate Addition/Metal-Mediated Allylation

Keywords: Asymmetric synthesis / Conjugate addition / Allylation / Diastereoselectivity

One-pot reaction sequence:

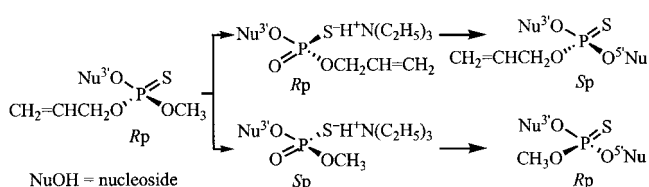


3834 Y. Hayakawa,* Y. Hirabayashi, M. Hyodo,
S. Yamashita, T. Matsunami, D.-M. Cui,
R. Kawai, H. Kodama



A Strategy for the Stereoselective Preparation of Thymidine Phosphorothioates with the (*R*) or the (*S*) Configuration at the Stereogenic Phosphorus Atom and Their Application to the Synthesis of Oligodeoxyribonucleotides with Stereochemically Pure Phosphate/Phosphorothioate Chimeric Backbones

Keywords: Antisense agents / Synthetic methods / Diastereoselectivity / Oligonucleotides / Solid-phase synthesis

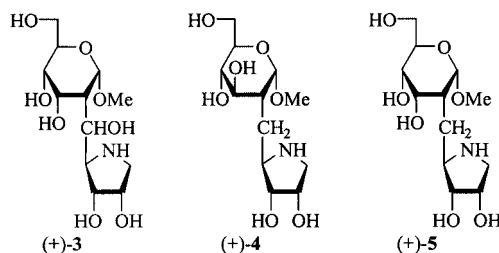


3845 E. Rodríguez García, M. A. Brimble,
P. Vogel*



Synthesis of New Aza-C-disaccharides Linking
4-Deoxy-4-amino-β-L-erythro-furanose to C-2 of
D-Glucose and D-Allose

Keywords: Aldol reactions / Aza-C-disaccharides /
Enones / Iminoalдитols / C-Glycosides /
Hexopyranosid-3-ulose

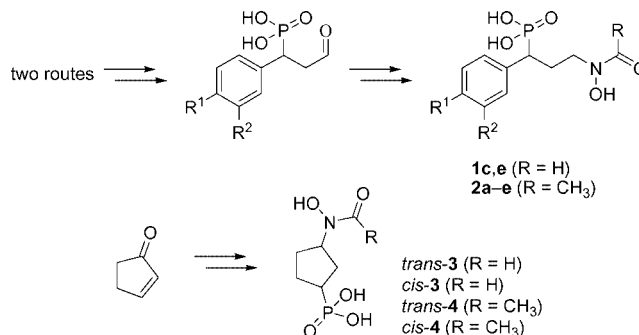


3856 T. Haemers, J. Wiesner, R. Busson,
H. Jomaa, S. Van Calenbergh*



Synthesis of α-Aryl-Substituted and Conforma-
tionally Restricted Fosmidomycin Analogues as
Promising Antimalarials

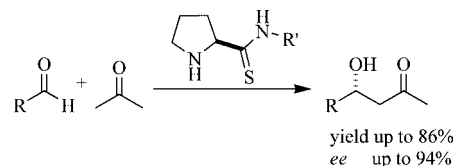
Keywords: Fosmidomycin / 1-Deoxy-D-xylulose 5-
phosphate reductoisomerase / α-Aryl-
substituted phosphonate / Rigidified
analogues



3864 D. Gryko,* R. Lipiński

Asymmetric Direct Aldol Reaction Catalysed by
L-Prolinethioamides

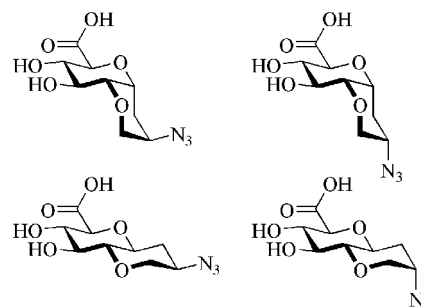
Keywords: Aldol reaction / Prolinethioamides / Asym-
metric synthesis / Organocatalysis / Imid-
azolidinethione



3877 M. D. P. Risseuw, G. M. Grotenbreg,
M. D. Witte, A. W. Tuin,
M. A. Leeuwenburgh, G. A. Van der Marel,
H. S. Overkleeft, M. Overhand*

The Synthesis of *cis*- and *trans*-Fused Bicyclic
Sugar Amino Acids

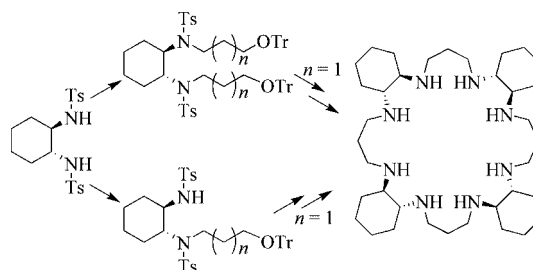
Keywords: Sugar amino acids / Ring-closing meta-
thesis / Petasis olefination / Pyranopyran



3887 C. Peña, I. Alfonso, V. Gotor*

Conformationally Biased Selective Alkylation of
trans-Cyclohexane-1,2-bis(sulfonamide) Assisted
by Solvent-Tuned Protecting Groups: Applica-
tions to the Synthesis of a Large Optically
Active Polyazamacrocyclic

Keywords: Protecting groups / Alkylation / Sulfon-
amides / Conformation analysis / Aza-
macrocycles

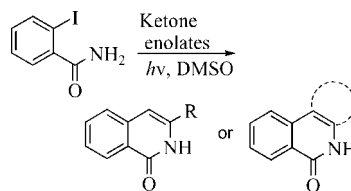


3898 J. F. Guastavino, S. M. Barolo, R. A. Rossi*



One-Pot Synthesis of 3-Substituted Isoquinolin-1-(2*H*)-ones and Fused Isoquinolin-1-(2*H*)-ones by $S_{RN}1$ Reactions in DMSO

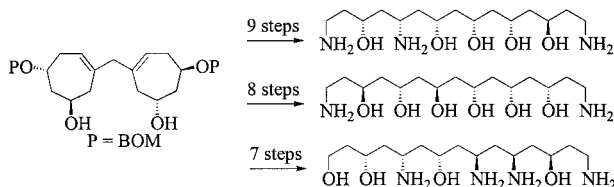
Keywords: Fused-ring systems / Radicals / Nucleophilic substitution / Electron transfer / $S_{RN}1$ reaction



3903 G. Coste, S. Gerber-Lemaire*

A New Efficient Synthesis of Long-Chain Di- and Triaminopolyols

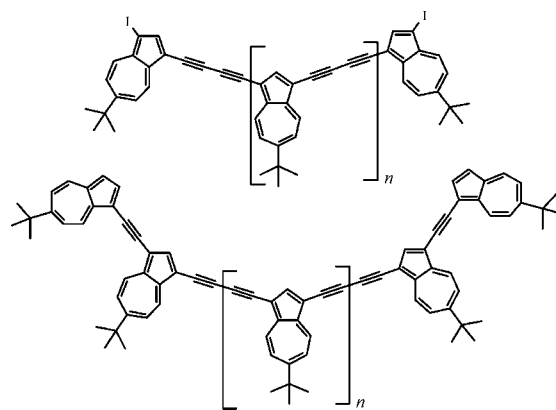
Keywords: Amino alcohols / Chain structures / Polyketides / Synthetic methods



3910 A. H. M. Elwahy, K. Hafner*

Synthesis and Characterization of Novel Oligoazulenes with Mixed Ethynyl and Butadiynyl Bridges

Keywords: Ethynyl(iodo)azulenes / Oligoazulenes / Oxidative coupling / Cross-coupling

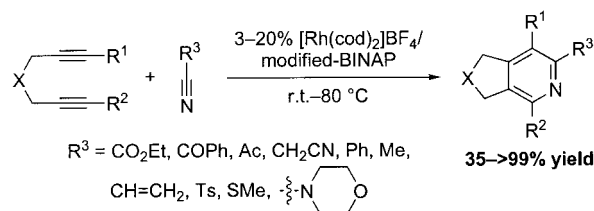


3917 K. Tanaka,* N. Suzuki, G. Nishida



Cationic Rhodium(I)/Modified-BINAP Catalyzed [2+2+2] Cycloaddition of Alkynes with Nitriles

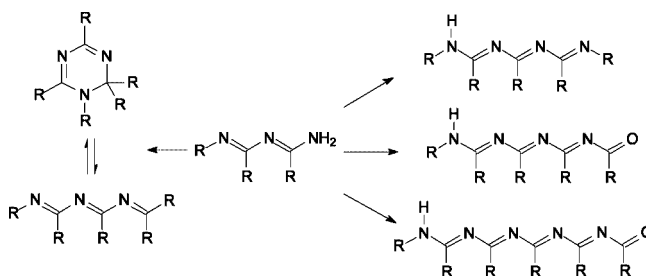
Keywords: Alkynes / Catalysis / Cycloaddition / Nitriles / Pyridines / Rhodium



3923 N. Heße, R. Fröhlich, B. Wibbeling, E.-U. Würthwein*

1,3,5-Triazapenta-1,3-dienes: Useful Building Blocks for the Synthesis of 1,2-Dihydro-1,3,5-triazines and Oligonitriles

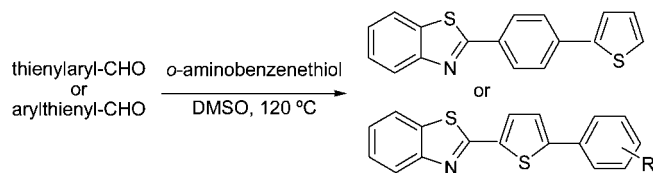
Keywords: 1,3,5-Triazapenta-1,3-dienes / Tautomerism / Triazines / Oligonitriles / DFT calculations



3938 S. P. G. Costa, R. M. F. Batista, P. Cardoso,
M. Belsley, M. M. M. Raposo*

2-Arylthienyl-Substituted 1,3-Benzothiazoles as
New Nonlinear Optical Chromophores

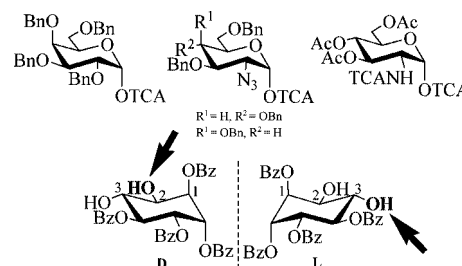
Keywords: Aldehydes / Benzothiazoles / UV/Vis spec-
troscopy / Nonlinear optics



3947 M. B. Cid,* I. Alonso, F. Alfonso,
J. B. Bonilla, J. López-Prados,
M. Martín-Lomas*

Simultaneous Regio- and Enantiodifferentiation
in Carbohydrate Coupling

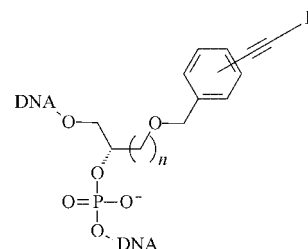
Keywords: Density functional calculations / Glycosyla-
tion / Hydrogen bonding / Regioselectivity /
Steric effect



3960 V. V. Filichev,* H. Gaber, T. R. Olsen,
P. T. Jørgensen, C. H. Jessen, E. B. Pedersen

Twisted Intercalating Nucleic Acids – Intercala-
tor Influence on Parallel Triplex Stabilities

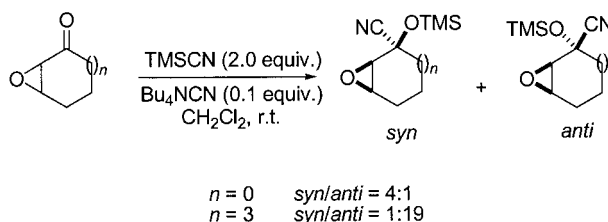
Keywords: Parallel triplex / DNA / Intercalator /
Sonogashira reaction



3969 A. Aljarilla, R. Córdoba, A. G. Csaky,
I. Fernández, F. López Ortiz, J. Plumet,
G. Ruiz Gómez

Stereochemistry of the Tetrabutylammonium
Cyanide-Catalyzed Cyanosilylation of Cyclic
 α,β -Epoxyketones – Dependence of the Dia-
stereoselectivity on the Ring Size

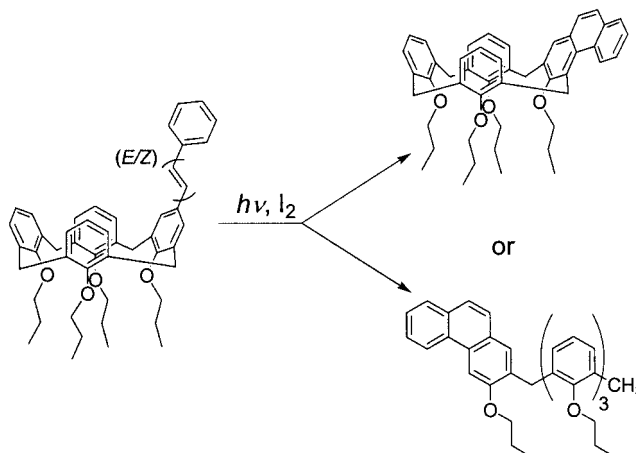
Keywords: Ab initio calculations / Diastereoselec-
tivity / Cyanohydrins / Epoxyketones /
Trimethylsilyl cyanide / Tetrabutylammo-
nium cyanide



3977 M. Mastalerz, W. Hüggenberg, G. Dyker*

Photochemistry of Styrylcalix[4]arenes

Keywords: Calixarenes / Chirality / Photochemistry /
Cleavage reactions / Wittig reactions

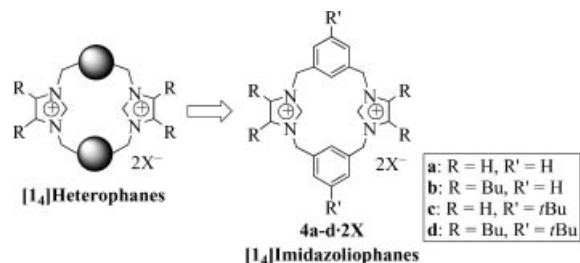


3988 E. Alcalde,* N. Mesquida, L. Pérez-García



Imidazolium-Based [1₄]Heterophanes as Models for Anion Recognition

Keywords: Macrocycles / Cyclophanes / Hydrogen bonds / Anion recognition / NMR spectroscopy

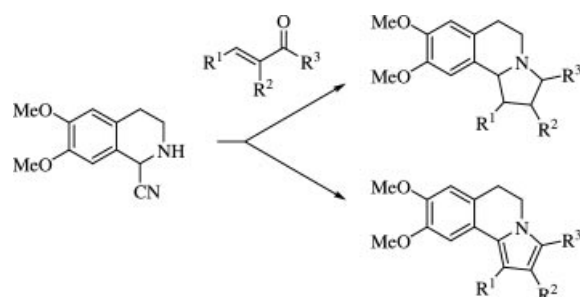


3997 N. Meyer, T. Opatz*



One-Pot Synthesis of (±)-Crispine A and Its C-Ring-Substituted Analogs

Keywords: Natural products / Heterocycles / Umpolung / 1,4-Addition / Amino nitriles

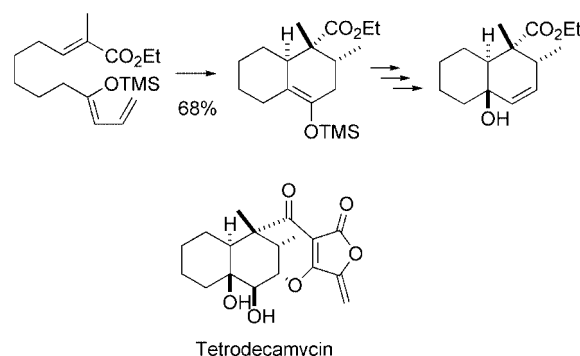


4003 J. He, K. Tchabanenko,* R. M. Adlington, A. R. Cowley, J. E. Baldwin



New Domino Silyl Enol Ether Reactions in the Synthesis of a Tetrodecamycin Fragment

Keywords: Silyl enol ethers / Alkene migration / Cycloaddition / Domino reactions

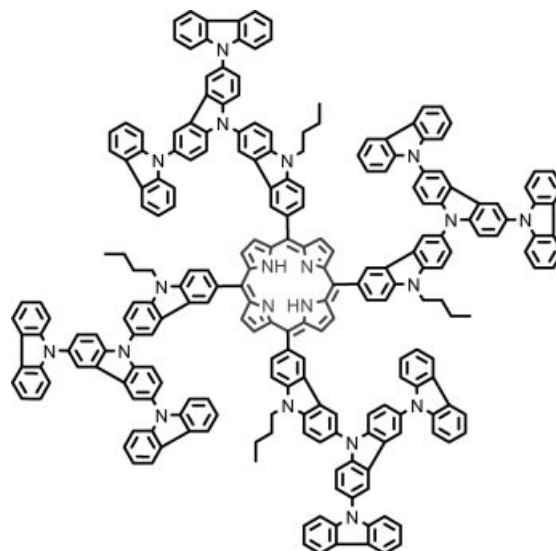


4014 T. H. Xu, R. Lu,* X. P. Qiu, X. L. Liu, P. C. Xue, C. H. Tan, C. Y. Bao, Y. Y. Zhao



Synthesis and Characterization of Carbazole-Based Dendrimers with Porphyrin Cores

Keywords: Carbazole / Dendrimers / Porphyrin / Energy transfer / Light-harvesting antennas / Red photoluminescence

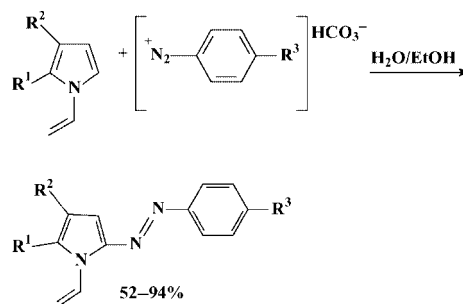


4021

B. A. Trofimov*, E. Y. Schmidt,
A. I. Mikhaleva, A. M. Vasil'tsov,
A. B. Zaitsev, N. S. Smolyanina,
E. Y. Senotrusova, A. V. Afonin,
I. A. Ushakov, K. B. Petrushenko,
O. N. Kazheva, O. A. Dyachenko,
V. V. Smirnov, A. F. Schmidt,
M. V. Markova, L. V. Morozova

2-Arylazo-1-vinylpyrroles: A Novel Promising
Family of Reactive Dyes

Keywords: 2-Arylazo-1-vinylpyrroles / Azo coupling /
Conformation / Copolymerization /
1-Vinylpyrroles / Dyes



$R^1 = \text{H, Me, Ph, 4-MeOC}_6\text{H}_4, \text{2-furyl, 2-thienyl};$
 $R^2 = \text{H, } R^1 - R^2 = (\text{CH}_2)_4;$
 $R^3 = \text{H, EtO, NO}_2, \text{PhN}_2, \text{Br.}$

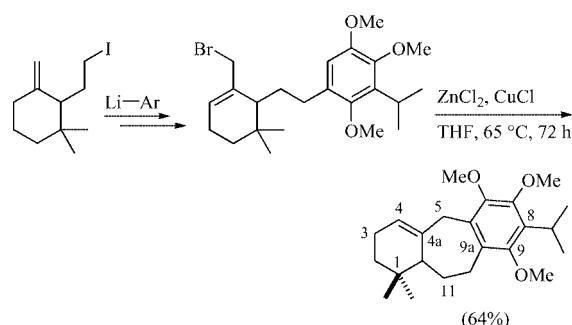
4034

M. E. Maier,* A. Bayer



A Formal Total Synthesis of Salvadione

Keywords: Arenes / Cyclization / Cyclohexanones /
Metalation / Natural products / Salvadione

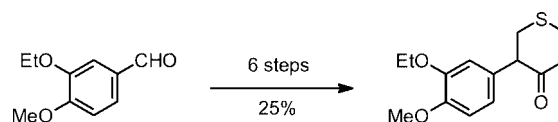


4044

A. Rosiak, W. Frey, J. Christoffers*

Synthesis of Tetrahydropyran-4-ones and Thio-
pyran-4-ones from Donor-Substituted α -Bromo-
styrene Derivatives

Keywords: Alkynes / α -Bromostyrenes / Conjugate ad-
dition / Corey–Fuchs procedure / Hetero-
cycles / Pyrans / Thiopyrans



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