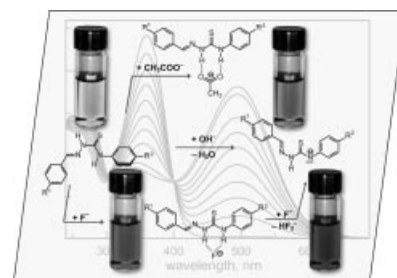


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COVER PICTURE

The cover picture shows the behavior of a family of neutral *N*-R¹-substituted-benzylideneamine)-*N'*-(R²-substituted-phenyl)thioureas (LH) as anion receptors. Spectrophotometric and ¹H NMR titration experiments in MeCN solution have shown that oxo anions (e. g. CH₃COO[−], H₂PO₄[−]) form genuine H-bond complexes with LH receptors through complementary N–H···O[−] interactions. The use of fluoride ions gives a two-step interaction, which involves (i) the formation of the [LH···F][−] complex, (ii) the release of an HF molecule to give [HF₂][−] and the deprotonated form of the receptor, L[−]. Direct deprotonation of LH is obtained on reaction with 1 equiv. of OH[−]. The occurrence of the different processes can be visually perceived through definite color changes. The colors shown in the picture refer to the receptor with R¹ = NO₂ and R² = OCH₃. Details are discussed in the article by L. Fabbrizzi et al. on pp. 3567ff.



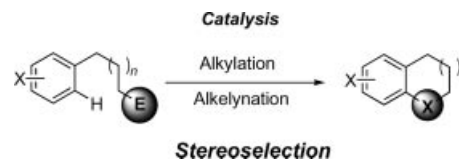
MICROREVIEW

Contents

3527 M. Bandini,* E. Emer, S. Tommasi,
 A. Umani-Ronchi*

Innovative Catalytic Protocols for the Ring-Closing Friedel–Crafts-Type Alkylation and Alkenylation of Arenes

Keywords: Arenes / Asymmetric synthesis / Catalysis / Cycloaddition / Synthetic methods

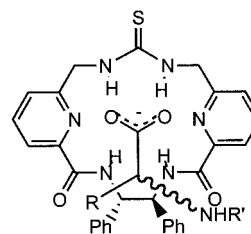


SHORT COMMUNICATIONS

3545 A. Ragusa, J. M. Hayes,* M. E. Light,
J. D. Kilburn*

Predicting Enantioselectivity: Computation as an Efficient “Experimental” Tool for Probing Enantioselectivity

Keywords: Enantioselectivity / Host–guest systems / Molecular recognition / Molecular modelling / MINTA

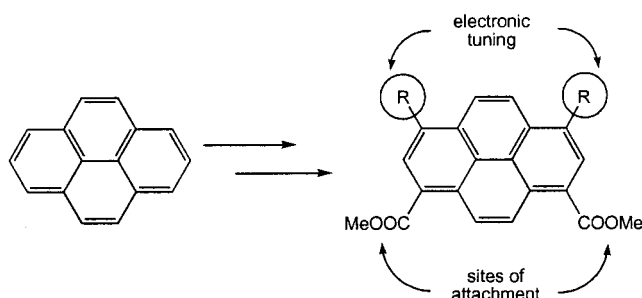


3550 V. L. Malinovskii, R. Häner*



Synthesis of Polysubstituted Pyrenes with Tuned Spectroscopic Properties for Two-Point Attachment

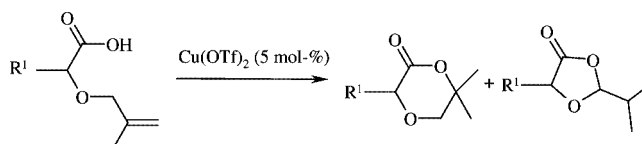
Keywords: C–C coupling / Halogenation / Chromophore / Fluorescence / Modified pyrenes



3554 X. Chaminade, L. Coulombel, S. Olivero,
E. Dunach*

Novel Catalytic Tandem Isomerisation/Cyclisation Reaction of α -Methallyloxy Carboxylic Acids

Keywords: Isomerisation / Cyclisation / Dioxolanone / Lewis acid

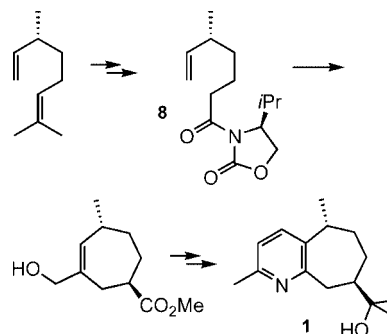


3558 D. Craig,* G. D. Henry



Total Synthesis of the Cytotoxic Guaipyridine Sesquiterpene Alkaloid (+)-Cananodine

Keywords: C–C coupling reactions / Catalysis / Claisen rearrangement / Microwave-assisted synthesis / Pyridine synthesis

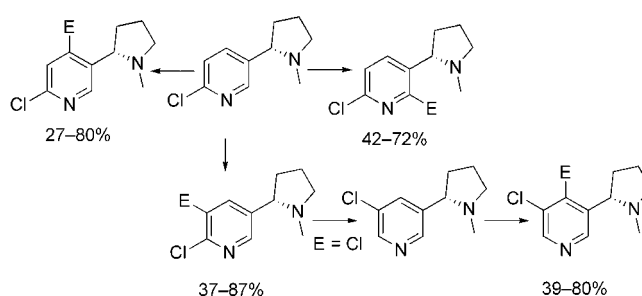


3562 F. F. Wagner, D. L. Comins*



Regioselective 5-, 4-, and 2-Substitution of (S)-6-Chloronicotine and 4-Substitution of (S)-5-Chloronicotine

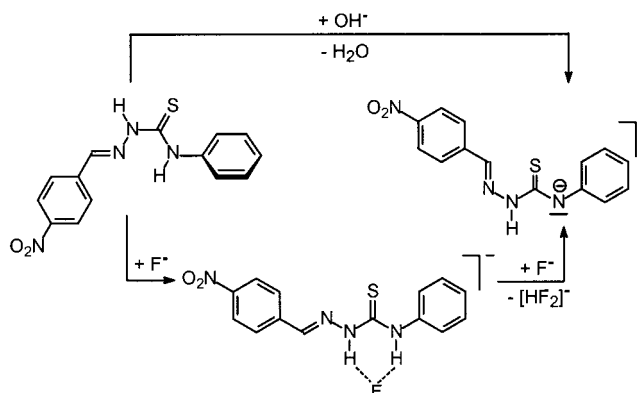
Keywords: Nicotine / Lithiation / Iodine dance / Regioselectivity



3567 M. Bonizzoni, L. Fabbrizzi,* A. Taglietti, F. Tiengo

(Benzylideneamino)thioureas – Chromogenic Interactions with Anions and N–H Deprotonation

Keywords: Anion recognition / Hydrogen bonding / Thiourea / Colorimetric sensors

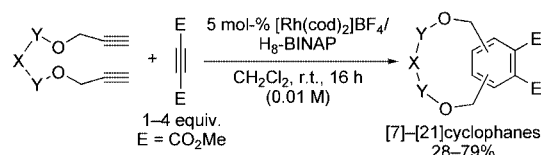


3575 K. Tanaka,* H. Sagae, K. Toyoda, K. Noguchi



Synthesis of Polyether Cyclophanes through Rhodium-Catalyzed Cross-Alkyne Cyclotrimerization

Keywords: Alkynes / Catalysis / Cyclophanes / Cyclotrimerization / Rhodium

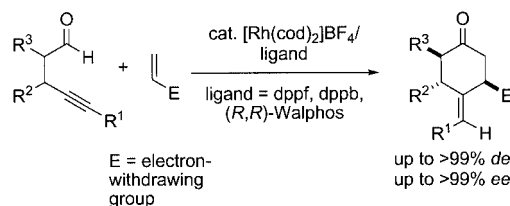


3582 K. Tanaka,* Y. Hagiwara, M. Hirano



Rhodium-Catalyzed Regio-, Diastereo-, and Enantioselective Intermolecular [4+2] Carbocyclization of 4-Alkynals with Electron-Deficient Alkenes

Keywords: Alkenes / Alkynes / Aldehydes / Asymmetric catalysis / Carbocyclization / Rhodium

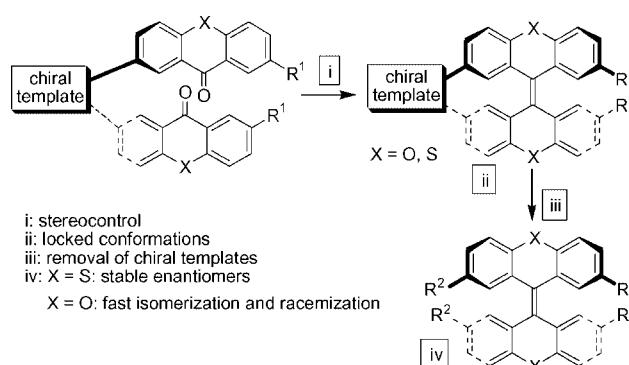


3596 E. M. Geertsema, R. Hoen, A. Meetsma, B. L. Feringa*



Asymmetric Synthesis of Bi(thio)xanthylidene Overcrowded Alkenes

Keywords: Overcrowded alkenes / Asymmetric synthesis / Configuration determination

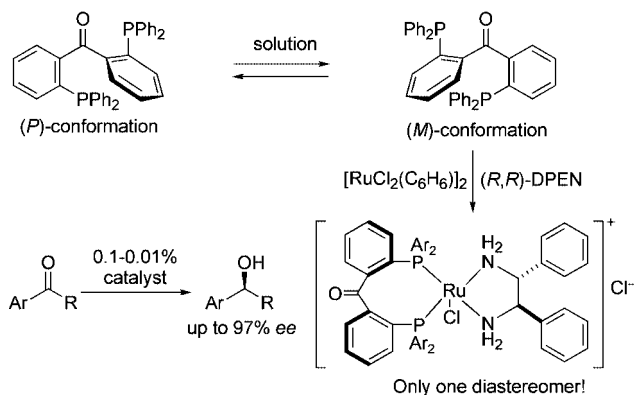


3606 Q. Jing, C. A. Sandoval, Z. Wang, K. Ding*



Complete Chiral Induction from Enantiopure 1,2-Diamines to Benzophenone-Based Achiral Bisphosphane Ligands in Noyori-Type Ru^{II} Catalysts

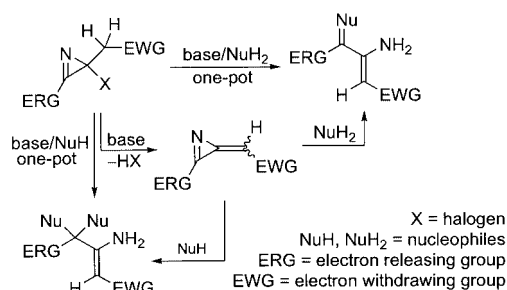
Keywords: Asymmetric catalysis / Chiral induction / Diamine / Hydrogenation / Ketone / Benzophenone / Bisphosphane / Ruthenium



3617 J. R. Fotsing, K. Banert*

New Way to Methylene-2*H*-azirines and Their Use as Powerful Intermediates for the Stereo- and Regioselective Synthesis of Compounds with Vinylamine Substructure

Keywords: Heterocycles / 1-Aminovinyl derivatives / Elimination / Ring opening / Nucleophilic addition

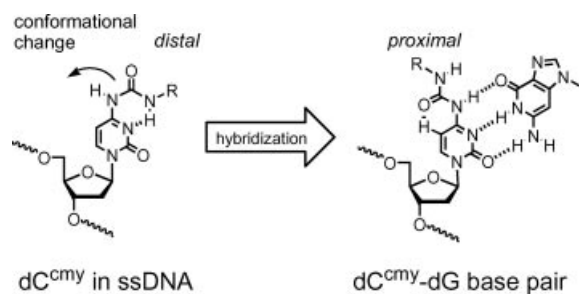


3626 K. Miyata, A. Kobori, R. Tamamushi, A. Ohkubo, H. Taguchi, K. Seio, M. Sekine*



Conformational Studies of 4-*N*-Carbamoyl-deoxycytidine Derivatives and Synthesis and Hybridization Properties of Oligodeoxyribonucleotides Incorporating these Modified Bases

Keywords: Oligonucleotides / Hybridization / Modified deoxynucleosides / DNA duplex formation / Conformational analysis / ¹⁵N-labeled nucleosides

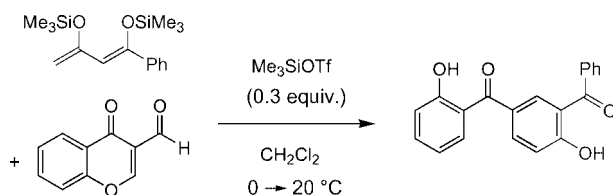


3638 B. Appel, S. Rotzoll, R. Kranich, H. Reinke, P. Langer*



Domino Michael/Retro-Michael/Mukaiyama-Aldol Reactions of 1,3-Bis-Silyl Enol Ethers with 3-Acyl- and 3-Formylbenzopyrylium Triflates – Synthesis of Functionalised 2,4'-Dihydroxybenzophenones

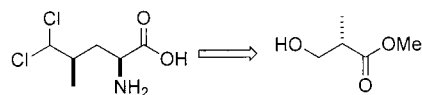
Keywords: Benzophenones / Cyclisations / Chromones / Domino reactions / Silyl enol ethers



3645 A. Ardá, C. Jiménez, J. Rodríguez*



Polychlorinated Leucine Derivatives: Synthesis of (2*S*,4*R*)-5,5-Dichloroleucine and Its *J*-Based Analysis

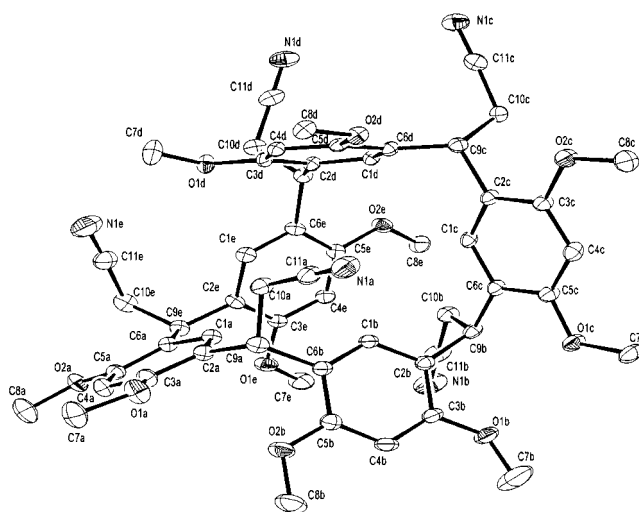


Keywords: Amino acids / Density functional calculations

3652 I. D'Acquarica, L. Nevola,
G. Delle Monache, E. Gács-Baitz,
C. Massera, F. Uguzzoli, G. Zappia,
B. Botta



Cyanoresorc[5]arenes: Isolation, Conformation and Crystal Structure

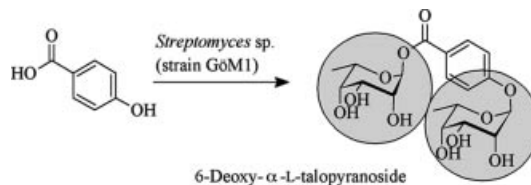


Keywords: Macrocyclic compounds / Resorc[5]arenes

3661 J. Bitzer, A. Zeeck*



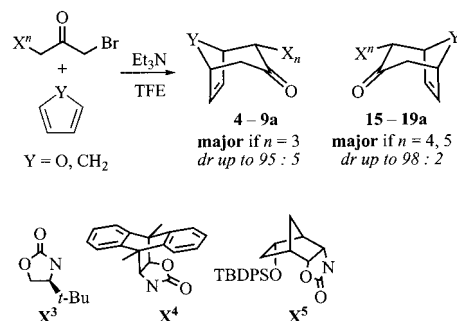
6-Deoxy- α -L-talopyranosides from *Streptomyces* sp.



Keywords: Carbohydrates / 6-Deoxy- α -L-talopyranosides / Deoxysugars / Natural products / Precursor-directed biosynthesis / Streptomyces

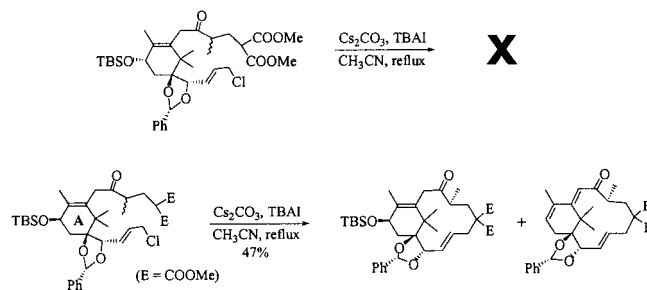
3667 D. I. MaGee,* E. Godineau, P. D. Thornton,
M. A. Walters, D. J. Sponholtz

Diastereoselective [4+3] Cycloadditions of Enantiopure Nitrogen-Stabilized Oxyallyl Cations

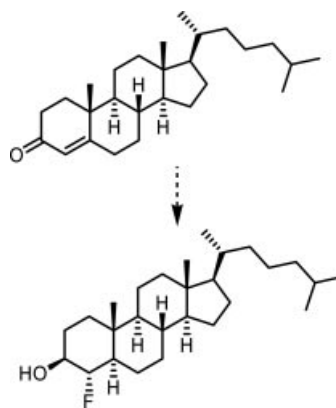


Keywords: Cycloaddition / Diastereoselectivity / Chiral auxiliaries / Oxyallyl cations

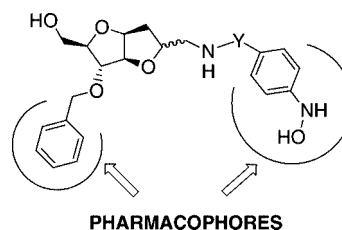
3681

S. Canesi, G. Berthiaume,
P. Deslongchamps*Novel Synthetic Strategy Towards Taxol by
Macrocyclization Reaction – Conformational
Requirement of Ring A**Keywords:** Carvone / Conformation / Epimer / Macro-
cyclization / Taxane

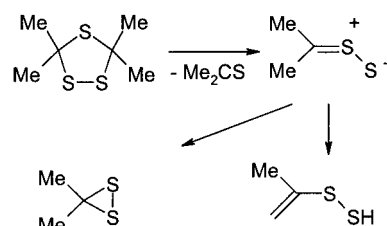
3687

A. W. Schmidt, T. Doert, S. Goutal,
M. Gruner, F. Mende, T. V. Kurzchalia,*
H.-J. Knölker*Regio- and Stereospecific Synthesis of Cholest-
erol Derivatives and Their Hormonal Activity in
*Caenorhabditis elegans***Keywords:** Diastereoselectivity / Fluorination / Hor-
mones / Reduction / Steroids

3707

F. Peri,* C. Airoidi, S. Colombo, S. Mari,
J. Jiménez-Barbero, E. Martegani,
F. NicotraSugar-Derived Ras Inhibitors: Group Epitope
Mapping by NMR Spectroscopy and Biological
Evaluation**Keywords:** NMR spectroscopy / Inhibitors / Medicinal
chemistry / Drug design / Epitope mapping

3721

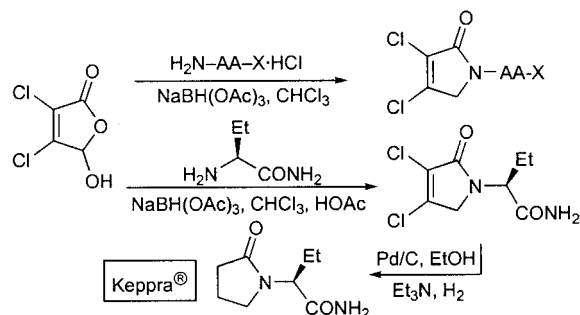
G. Maier, H. P. Reisenauer,* J. Romański,
H. Petzold, G. Mlostoń*Generation and Rearrangements of Thioacetal-
dehyde *S*-Sulfide (Methylthiosulfine) and Thio-
acetone *S*-Sulfide (Dimethylthiosulfine)**Keywords:** Matrix isolation / Density functional
calculations / Photoisomerizations /
Reaction mechanisms / Sulfur compounds

3730

K. Das Sarma, J. Zhang,* Y. Huang,
J. G. Davidson

Amino Acid Esters and Amides for Reductive Amination of Mucochloric Acid: Synthesis of Novel γ -Lactams, Short Peptides and Anti-seizure Agent Levetiracetam (Keppra®)

Keywords: Mucochloric acid / Reductive amination / γ -Lactam / Short peptides / Levetiracetam

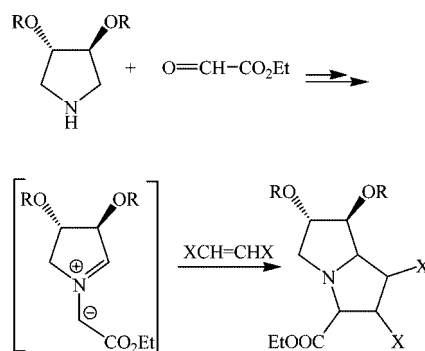


3738

N. G. Argyropoulos,* V. C. Sarli,
M. Gdaniec

Synthesis of Pyrrolizidine Derivatives by 1,3-Dipolar Cycloaddition Reactions of Chiral Five-Membered Cyclic Azomethine Ylides

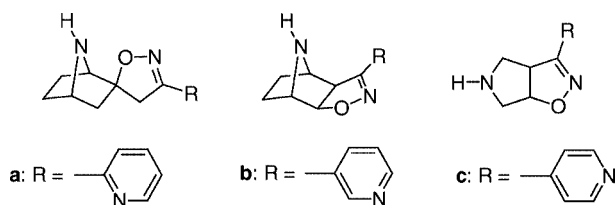
Keywords: Cycloaddition / Pyrrolizidine / Ylides / Regioselectivity



3746

C. Dallanocce,* P. Bazza, G. Grazioso,
M. De Amici, C. Gotti, L. Riganti,
F. Clementi, C. De Micheli

Synthesis of Epibatidine-Related Δ^2 -Isoxazoline Derivatives and Evaluation of Their Binding Affinity at Neuronal Nicotinic Acetylcholine Receptors



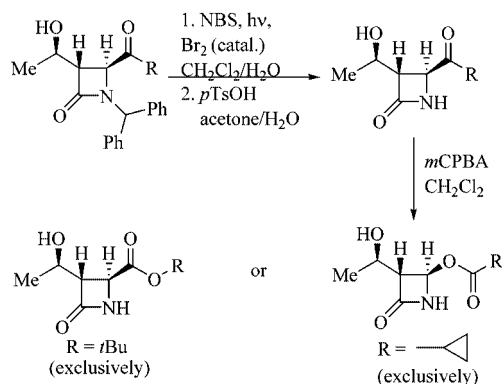
Keywords: Epibatidine analogues / Neuronal nicotinic acetylcholine receptors / Binding affinity / Molecular modeling

3755

M. Laurent, M. Cérésiat,
J. Marchand-Brynaert*

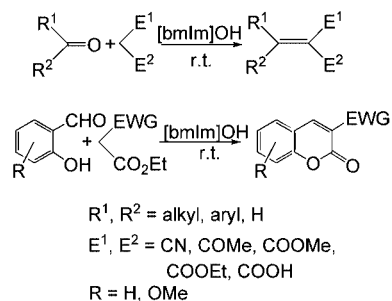
Synthesis of (1'*R*,3*S*,4*S*)-3-[1'-(*tert*-Butyldimethylsilyloxy)ethyl]-4-(cyclopropylcarbonyloxy)azetidin-2-one

Keywords: Azetidinone / Carbapenem precursor / Benzhydryl protecting group / Directed Baeyer–Villiger oxidation



Ionic Liquid as Catalyst and Reaction Medium
– A Simple, Efficient and Green Procedure for
Knoevenagel Condensation of Aliphatic and
Aromatic Carbonyl Compounds Using a Task-
Specific Basic Ionic Liquid

Keywords: Ionic liquid / Green chemistry / Catalysis /
Knoevenagel condensation / Carbonyl
compounds



CORRECTION

Syntheses of *O*⁶-Alkyl- and Arylguanine Deriva-
tives: Nucleobase Adducts Derived from Styrene
7,8- and 3,4-Oxides

Keywords: Alkoxypurines / Aryloxypurines / DNA
adducts / DNA damage / Heterocycles



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