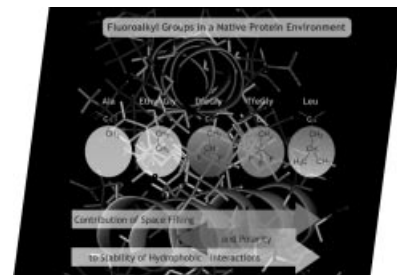


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COVER PICTURE

The cover picture shows the specific interaction domains (yellow: hydrophobic core; red and blue: charged functional groups in amino acid side chains) of an α -helical coiled coil peptide (in the background) and the influence of fluoroalkyl-substituted amino acids on the stability of hydrophobic protein cores (in the foreground). Details are presented in the Microreview by C. Jäckel and B. Kokscho on p. 4483 ff.



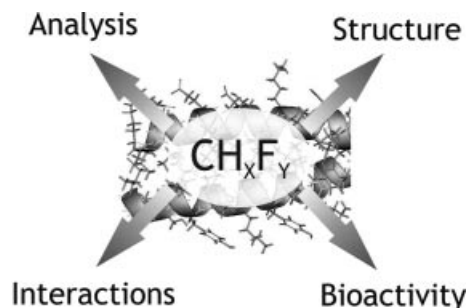
MICROREVIEWS

Contents

4483 C. Jäckel, B. Kokscho*

Fluorine in Peptide Design and Protein Engineering

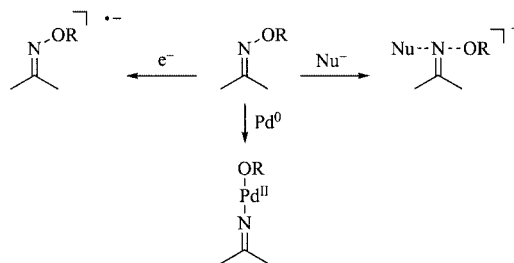
Keywords: Fluorine / Protein engineering / Peptide design / Non-natural amino acids / Secondary structure



4505 K. Narasaka,* M. Kitamura

Amination with Oximes

Keywords: Oxime / S_N2 reaction / Electrophilic amination / Radical cyclization / Iminyl radical / Amino-Heck reaction



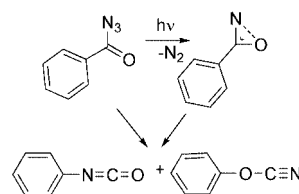
SHORT COMMUNICATIONS

4521 C. Wentrup,* H. Bornemann



The Curtius Rearrangement of Acyl Azides Revisited – Formation of Cyanate (R–O–CN)

Keywords: Azides / Reactive intermediates / Nitrenes / Isocyanates / Cyanates

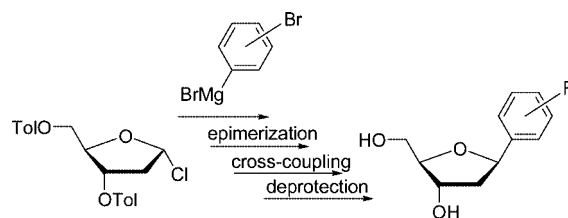


4525 M. Hocek,* R. Pohl, B. Klepetářová



A New Modular and Practical Methodology for the Synthesis of 4- or 3-Substituted Phenyl C-Nucleosides

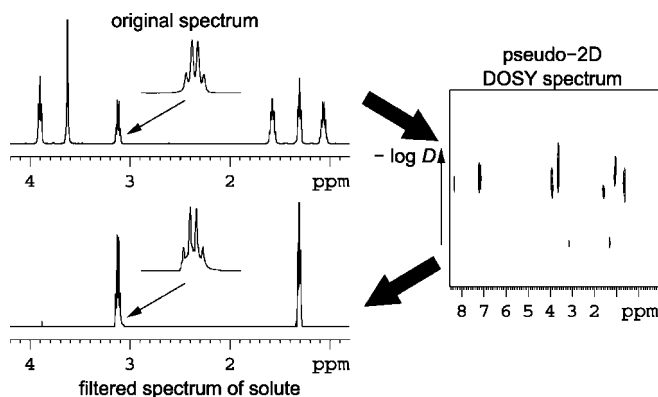
Keywords: Nucleosides / C-glycosides / Cross-coupling reactions / Grignard reagents



4529 R. Giernoth,* D. Bankmann

Application of Diffusion-Ordered Spectroscopy (DOSY) as a Solvent Signal Filter for NMR in Neat Ionic Liquids

Keywords: Analytical methods / NMR spectroscopy / Solvent suppression / Green chemistry / Ionic Liquids



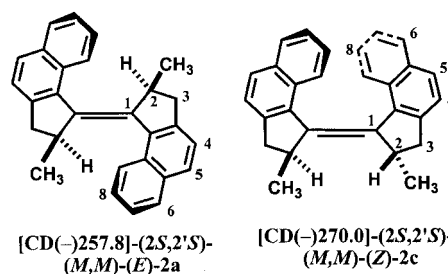
FULL PAPERS

4533 T. Fujita, S. Kuwahara, N. Harada*



A New Model of Light-Powered Chiral Molecular Motor with Higher Speed of Rotation, Part 1 – Synthesis and Absolute Stereostructure

Keywords: Molecular motor / Chirality / Chiral olefins / Circular dichroism

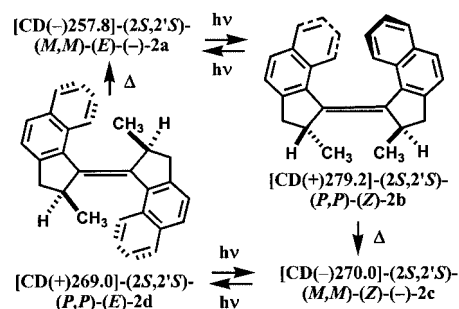


4544 S. Kuwahara, T. Fujita, N. Harada*



A New Model of Light-Powered Chiral Molecular Motor with Higher Speed of Rotation, Part 2 – Dynamics of Motor Rotation

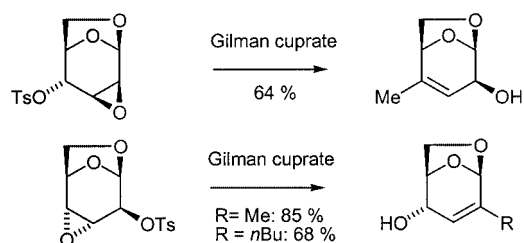
Keywords: Molecular motor / Motor rotation isomer / Circular dichroism / Molecular dynamics



4557 K. Krohn,* D. Gehle, U. Flörke

New Chiral Building Blocks and Branched 1,6-Anhydro Sugars from Regio- and Stereoisomeric Černý Epoxides

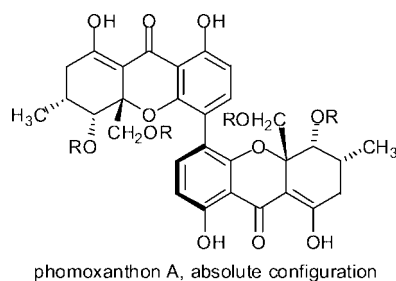
Keywords: 1,6-Anhydro sugars / Chiral building blocks / Branched sugars / Černý epoxides / Gilman cuprates / Epoxide rearrangement / Vinyl tosylate cross coupling



4563 B. Elsässer, K. Krohn,* U. Flörke, N. Root, H.-J. Aust, S. Draeger, B. Schulz, S. Antus, T. Kurtán

X-ray Structure Determination, Absolute Configuration and Biological Activity of Phomoxanthone A

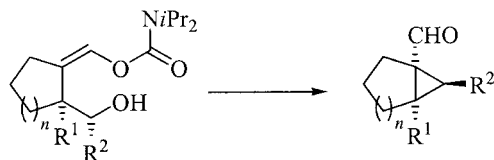
Keywords: Fungal metabolites / Phomoxanthone A / Dimeric xanthenes / Quantum-mechanical calculation of CD spectra / Absolute axial configuration / Solid-state CD



4571 R. Kalkofen, S. Brandau, S. ÜNALDI, R. Fröhlich, D. Hoppe*

Enantio- and Diastereoselective Synthesis of Highly Substituted Acylcyclopropanes from Homoaldol Products by Stereospecific Homoallylic Cyclization

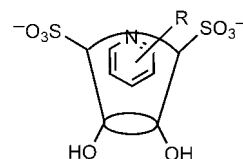
Keywords: Carbocycles / Cyclization / Small ring systems / Asymmetric synthesis / Carbonyl-cyclopropanes



4581 Y. Liu,* E.-C. Yang, Y. Chen, D.-S. Guo, F. Ding

Molecular Selective Binding of Pyridinium Guest Ions by Water-Soluble Calix[4]arenes

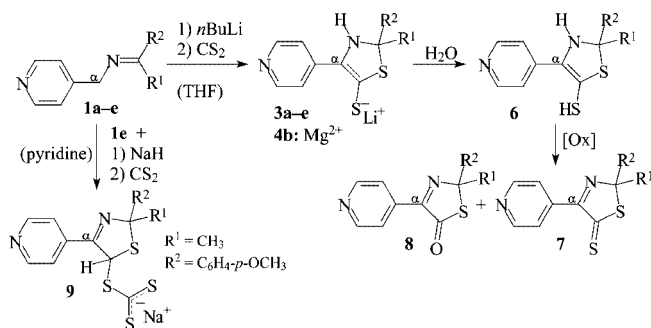
Keywords: Calixarenes / Microcalorimetric titration / Thermodynamics / Pyridinium guest ions



4589 D. Hampe, H. Görls, E. Anders*

1,3-Thiazoline-5-thiolates and 1,3-Thiazole-5(2*H*)-thiones by [3+2]-Cycloaddition of Carbon Disulfide to Metalated 4-Alkylidene-4*H*-pyridin-1-ides

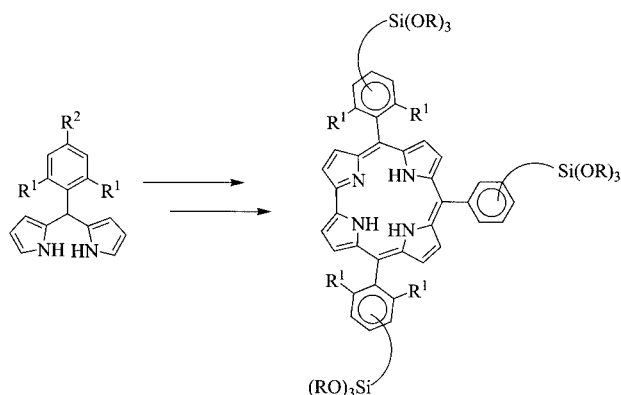
Keywords: Metalated azomethines / Carbon disulfide fixation / 1,3-Thiazole-5-thiolates / 1,3-Thiazole-5(2*H*)-thione / NMR spectroscopy



4601 J.-M. Barbe,* G. Canard, S. Brandès, R. Guillard*

Synthesis and Physicochemical Characterization of *meso*-Functionalized Corroles: Precursors of Organic–Inorganic Hybrid Materials

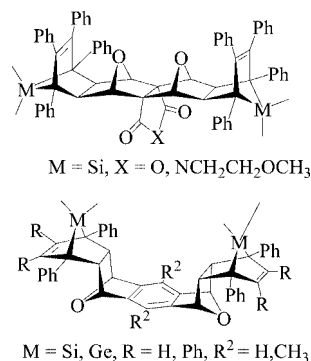
Keywords: Corroles / Porphyrinoids / Precursors / Synthetic methods / Sensors



4612 M. Eckert-Maksić,* D. Margetić, S. Kirin, D. Milić, D. Matković-Čalogović

High-Pressure Assisted Synthesis of Fused Norbornenes Containing Two 7-Metallonorbornene Units

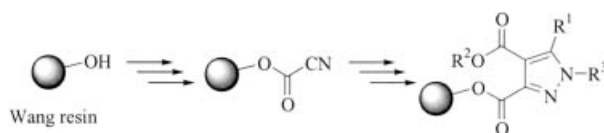
Keywords: Metallacycles / Norbornenes / Cycloadditions / High-pressure chemistry / Density functional calculations



4621 C. F. Morelli,* A. Saladino, G. Speranza, P. Manitto

Expedition Solid-Phase Synthesis of Pyrazoledicarboxylic Acid Derivatives by Functionalization of Resin-Bound Cyanoformate

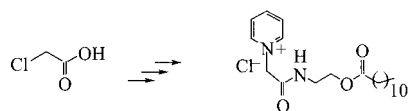
Keywords: Solid-phase synthesis / Nitrogen heterocycles / Pyrazoledicarboxylic acids / Resin-bound cyanoformate



4628 E. M. Rustoy, A. Baldessari*

An Efficient Chemoenzymatic Synthesis of the Bactericide Lapyrium Chloride

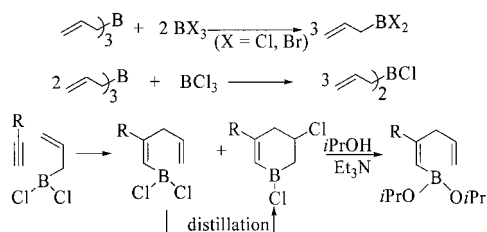
Keywords: Enzyme-catalyzed acylation / Aminolysis / Bactericide



4633 Y. N. Bubnov,* N. Y. Kuznetsov, F. V. Pastukhov, V. V. Kublitsky

A Convenient Method for the Generation of Allylic Dihaloboranes and Diallyl(chloro)borane and Their Application in the Allylboration of Alkenes and Acetylenes

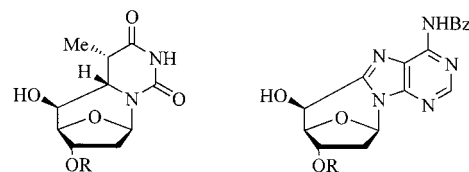
Keywords: Alkenes / Alkynes / Boron / Allyl(halo)boranes / Exchange reactions / Allylboration



4640 M. L. Navacchia, A. Manetto, P. C. Montevecchi, C. Chatgililoglu*

Radical Cyclization Approach to Cyclonucleosides

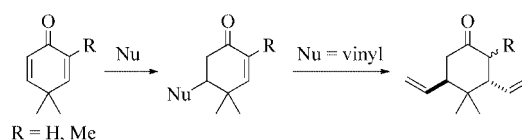
Keywords: Cyclization / Kinetics / Nucleosides / Organosilanes / Radical reactions



4649 D. Giomi,* M. Piacenti, A. Brandi

Regio- and Diastereoselective Conjugate Addition to 4,4-Dimethylcyclohexadienones

Keywords: Enones / Michael addition / Regioselectivity / Diastereoselectivity / Vinyl cuprate / Dimethyl malonate

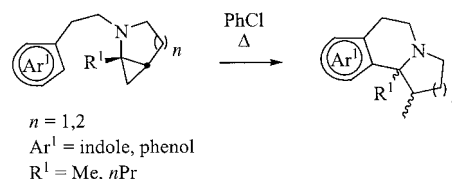


4654 L. Larquetoux, N. Ouhamou, A. Chiaroni, Y. Six*



The Intramolecular Aromatic Electrophilic Substitution of Aminocyclopropanes Prepared by the Kulinkovich–de Meijere Reaction

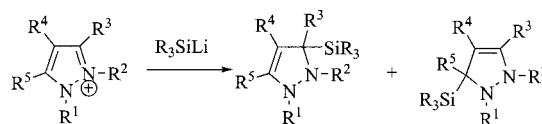
Keywords: Titanium / Aromatic substitution / Cyclisation / Amides / Cyclopropanes



4663 A. M. González-Nogal,* M. Calle, L. A. Calvo, P. Cuadrado, A. González-Ortega

Regioselective Synthesis of Silylated Pyrazolines and Indazolines by Reaction of Pyrazolium and Indazolium Salts with Silyllithium Reagents

Keywords: Nitrogen heterocycles / Regioselectivity / Silylazolines

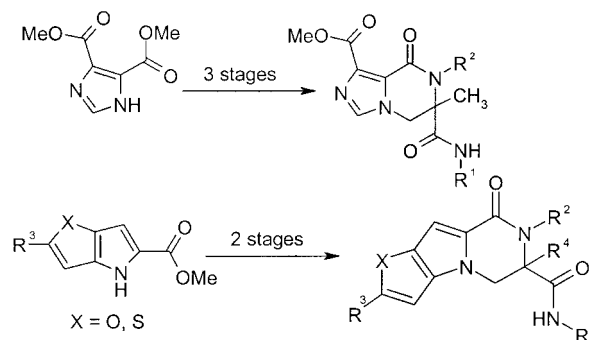


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A. P. Ilyin, V. V. Kobak, I. G. Dmitrieva,
Y. N. Peregodova, V. A. Kustova,
Y. S. Mishunina, S. E. Tkachenko,
A. V. Ivachtchenko*

Synthesis of Annelated Azaheterocycles Containing a 5-Carbamoylpyrazin-3-one Fragment by a Modification of the Four-Component Ugi Reaction

Keywords: Ugi condensation / Compound library / Combinatorial chemistry / Pyrazines



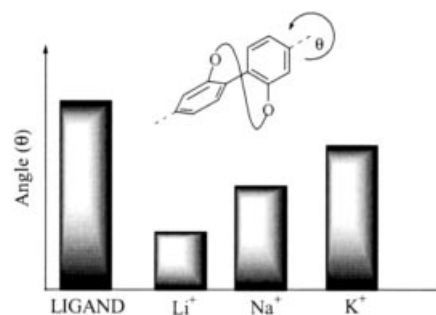
4680

A. C. Benniston,* A. Harriman, P. V. Patel,
C. A. Sams



A Strategy for Controlling the Central Torsion Angle in Biphenyl-Based Molecular-Scale Bridges

Keywords: Crown ether / Cation binding / Molecular dynamics simulations / Fluorescence / Molecular modelling

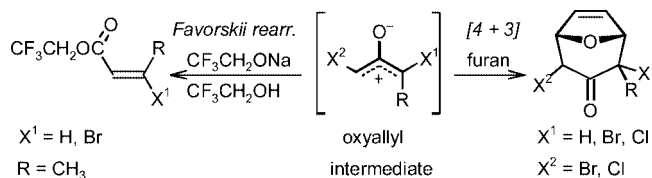


4687

B. Föhlisch,* T. Franz, G. Kreiselmeier

Base-Induced Trifluoroethanolysis of Acyclic Di- and Trihalogeno Ketones: Favorskii Rearrangement and [4+3] Cycloaddition

Keywords: Cleavage reactions / Ketones / Solvolysis / Heterocycles / Small ring systems

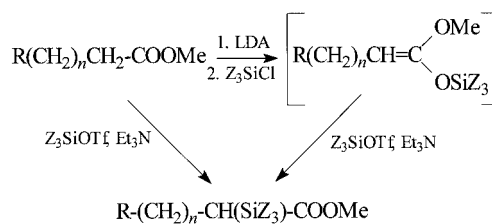


4699

A. El Kadib, S. Asgatay, F. Delpech,
A. Castel, P. Rivière*

Highly Selective C-Silylation of Fatty Acid Methyl Esters

Keywords: Silanes / Fatty acid esters / Silyl triflates / Nucleophilic substitution / Regioselectivity

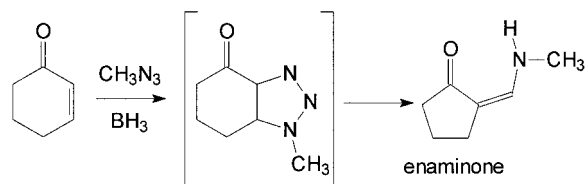


4705

R. Castillo, J. Andrés,* L. R. Domingo

Lewis Acid Mediated Domino Reaction between 2-Cyclohexenone and Methyl Azide – A DFT Study

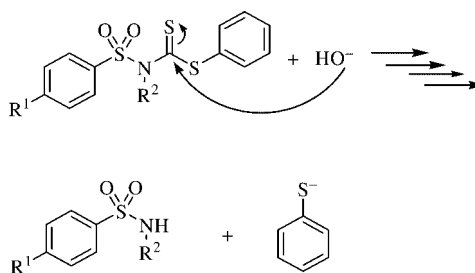
Keywords: 1,3-Dipolar cycloadditions / Lewis acids / Triazolines / Density functional calculations / Molecular mechanisms



4710 F. Norberto, M. E. M. Araújo,* L. Santos,
M. S. P. Jaime, P. M. V. Mateus, P. Hervés

Synthesis of Phenyl Arylsulfonyl-alkyl-dithiocarbamates and Their Hydrolytic Reactivity in Hydroxide and Hydroperoxide Media

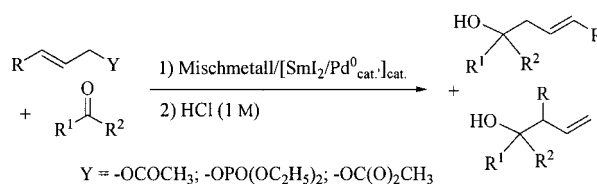
Keywords: Phenyl arylsulfonyl-alkyl-dithiocarbamates / Kinetics / Hydrolysis / Nucleophilic catalysis / Hydroperoxide effectiveness



4715 S. Médéjan, F. Hélon, J.-L. Namy*

Reductive Coupling of Allylic Esters with Carbonyl Compounds Mediated by the Mischmetall/[$\text{SmI}_2/\text{Pd}^0_{\text{cat.}}$]cat. System

Keywords: Allylation / Catalysis / Mischmetall / Samarium / Palladium



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