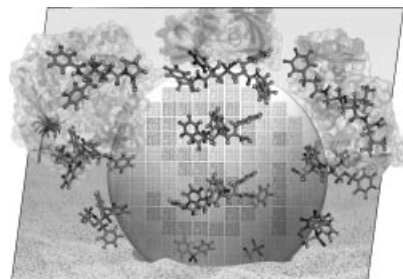


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COVER PICTURE

The cover picture shows the pathway of silicon from its natural source to an organosilane protease inhibitor. Nearly all silicon exists in the form of silica, commonly encountered as sand. Silica is reduced to silicon, some becoming computer chips and some converted to organosilanes using the Müller-Rochow (Direct) Process, which transforms chloromethane and chlorobenzene to methyl- and phenyl-substituted chlorosilanes, respectively. When the two small, commercially available reagents at the bottom of the picture are subjected to a sequence of chemical reactions, they are converted into the three silanediol-based peptide mimics at the top, which are nanomolar inhibitors of the three enzymes angiotensin-converting enzyme (ACE), HIV protease, and thermolysin (left to right). Details are presented in the Microreview by S. McN. Sieburth and C.-A. Chen on page 311 ff.



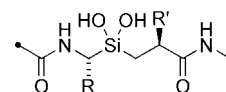
MICROREVIEW

Contents

311 S. McN. Sieburth,* C.-A. Chen

Silanediol Protease Inhibitors: From Conception to Validation

Keywords: Drug design / Hydrolases / Inhibitors /
 Peptidomimetics / Proteases / Silanes /
 Silicon



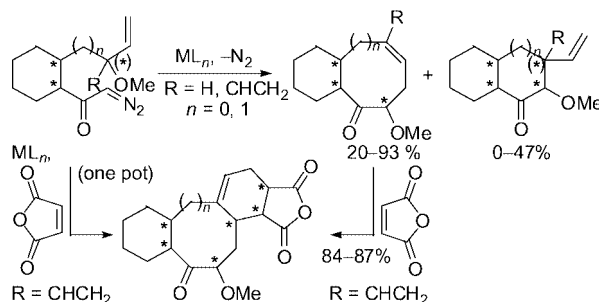
SHORT COMMUNICATIONS

323 J. S. Clark,* S. B. Walls, C. Wilson,
S. P. East, M. J. Drysdale



Construction of Fused Medium-Ring Carbocycles by Catalytic Generation and Rearrangement of Oxonium Ylides

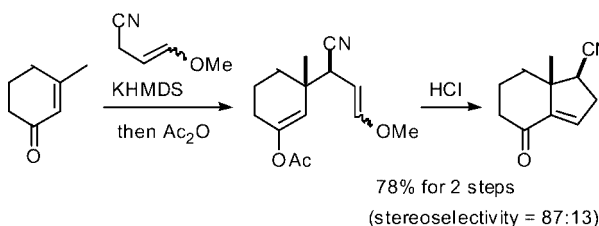
Keywords: Carbenoids / Ylides / Rearrangements / Medium-sized rings / Carbocycles



328 K. Tanino,* Y. Tomata, Y. Shiina,
M. Miyashita*

A Novel Cyclopentene Annulation Method Based on Conjugate Addition Reactions of α -Cyano Carbanion Species

Keywords: Cyclization / Annulation / Enones / Cyanides / Michael addition

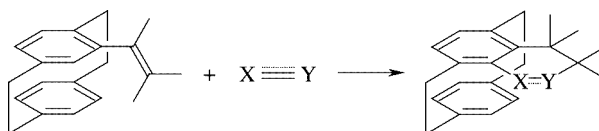


FULL PAPERS

335 A. A. Aly, S. Ehrhardt, H. Hopf,* I. Dix,
P. G. Jones

Cycloadditions to Alkenyl[2.2]paracyclophanes

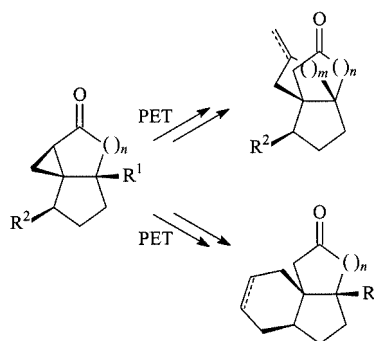
Keywords: Cyclophanes / Cycloadditions / Annulation / Ene reaction



351 N. T. Tzvetkov, B. Neumann,
H.-G. Stammer, J. Mattay*

Photoreactions of Tricyclic α -Cyclopropyl Ketones and Unsaturated Enones – Synthesis of Polyquinanes and Analogous Ring Systems

Keywords: Tandem fragmentation-cyclization / Photo-induced electron transfer / Polyquinanes / Polycycles / Radical ions

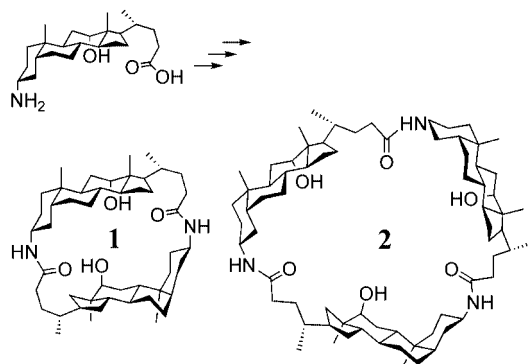


- 371** M. Feigel,* R. Ladberg, M. Winter,
D. Bläser, R. Boese



Synthesis and Structure of Macrolactams of 3 α -Aminodeoxycholic Acid

Keywords: Macrocycles / Steroids / Lactams / Conformation analysis

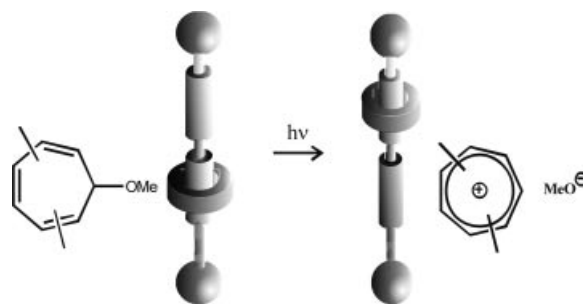


- 378** S. Schmidt-Schäffer, L. Grubert,
U. W. Grummt, K. Buck, W. Abraham*



A Photoswitchable Rotaxane with an Unfolded Molecular Thread

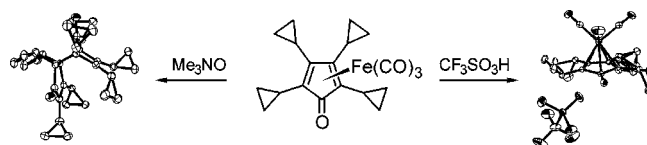
Keywords: Cycloheptatriene / Rotaxanes / Tropylium ion / Supramolecular chemistry



- 399** I. Emme, T. Labahn, A. de Meijere*

Syntheses, Structures and Electronic Properties of Cationic Hydroxy- and Methoxy-Substituted Tricarbonyl(tetracyclopropylcyclopentadienyl)-iron Complexes

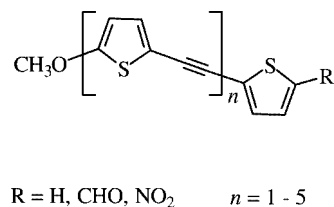
Keywords: Small rings / Carbonyl compounds / Iron complexes / Structural data / Cations



- 405** H. Meier,* B. Mühling, A. Oehlhof,
S. Theisinger, E. Kirsten

Oligo(2,5-thienyleneethynylene)s with Terminal Donor-Acceptor Substitution

Keywords: Oligomers / Conjugation / Push-pull effect / Chromophores

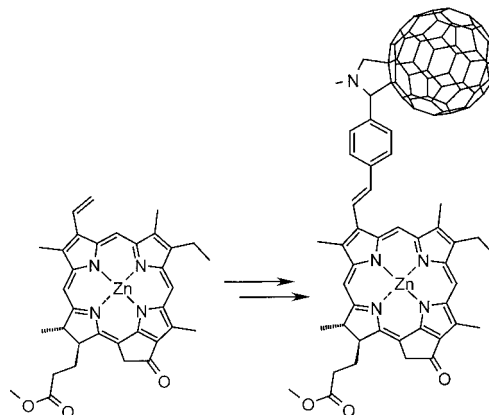


- 414** M. Katterle,* A. R. Holzwarth, A. Jesorka



A Heck-Type Coupling for the Synthesis of Novel Bridged Metallochlorin–Fullerene C₆₀ Dyads

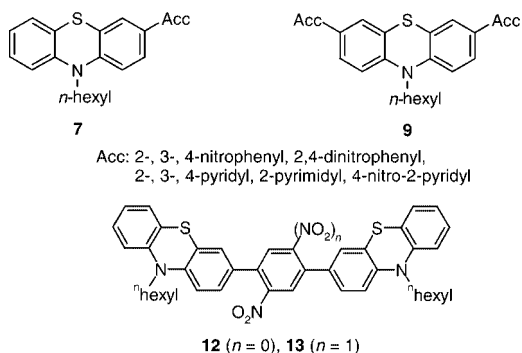
Keywords: Electron transfer / Fullerenes / Heck reaction / Chlorin / Dyads



**423 M. Sailer, M. Nonnenmacher, T. Oeser,
T. J. J. Müller***

Synthesis and Electronic Properties of 3-Acceptor-Substituted and 3,7-Bisacceptor-Substituted Phenothiazines

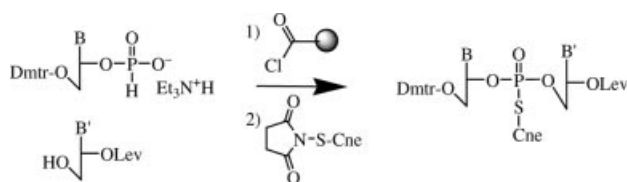
Keywords: Catalysis / Cyclic voltammetry / Fluorescence / Heterocycles / Substituent effects



**436 I. Adamo, C. Dueymes, A. Schönberger,
A.-E. Navarro, A. Meyer, M. Lange,
J.-L. Imbach, F. Link, F. Morvan,*
J.-J. Vasseur**

Solution-Phase Synthesis of Phosphorothioate Oligonucleotides Using a Solid-Supported Acyl Chloride with *H*-Phosphonate Chemistry

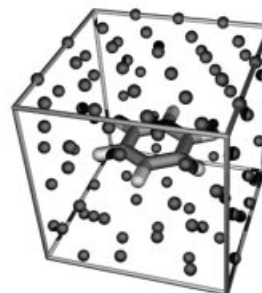
Keywords: Oligonucleotides / *H*-Phosphonate / Solution-phase synthesis / Solid-supported reagents / Nucleosides



449 C. Zonta,* O. De Lucchi

A Haigh–Mallion-Based Approach for the Evaluation of the Intensity Factors of Aromatic Rings

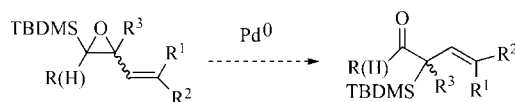
Keywords: Ab initio calculations / Aromaticity / Magnetic properties / NMR spectroscopy



**453 F. Marion, S. Calvet, J.-C. Marié,
C. Courillon,* M. Malacria***

Silylated Vinyloxiranes – Recent Advances and Synthetic Applications

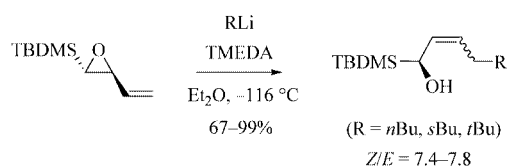
Keywords: Aldehydes / Lactones / Michael addition / Palladium / Rearrangement



463 J.-C. Marié, C. Courillon,* M. Malacria*

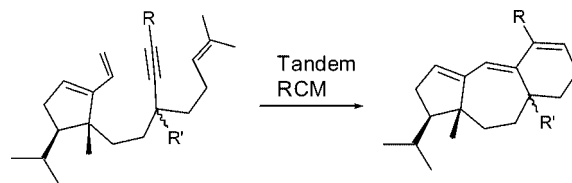
S_N2 Reactions between Lithiated Carbon Nucleophiles and Silylated Vinyloxiranes – Effects of Salts and Solvents on the Stereocontrol

Keywords: Alcohols / Allylic compounds / Lithiation / Nucleophilic substitution / Oxygen heterocycles / Silicon



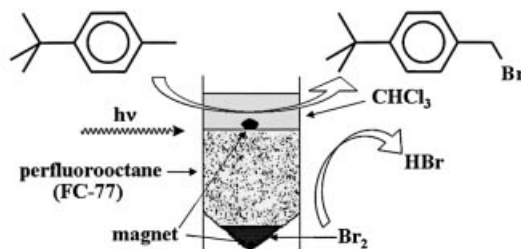
Substituent Effects in Tandem Ring-Closing Metathesis Reactions of Dienynes

Keywords: Cyclization / Enynes / Isomerization / Metathesis / Substituent effects



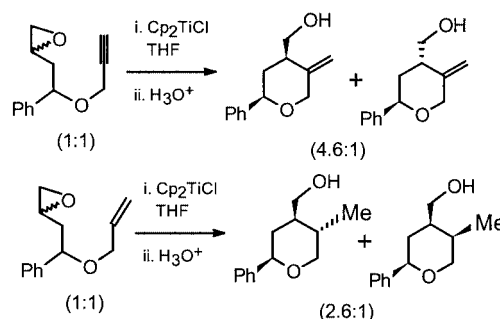
Association of Fluorous Phase-Vanishing Method with Visible-Light Activation in Benzylic Bromination by Bromine

Keywords: Halogenation / Perfluorinated solvents / Radical reactions / Phase transitions / Fluorous chemistry



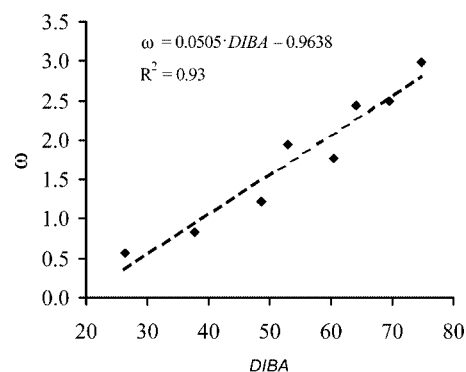
Stereoselective Synthesis of Polysubstituted Tetrahydropyrans by Radical Cyclization of Epoxides using a Transition-Metal Radical Source

Keywords: Tetrahydropyrans / Radical cyclization / Epoxides / Transition metals



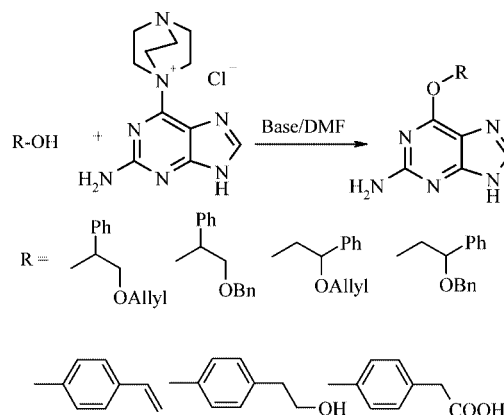
π -Strain-Induced Electrophilicity in Small Cycloalkynes: A DFT Analysis of the Polar Cycloaddition of Cyclopentyne towards Enol Ethers

Keywords: Cycloadditions / Cycloalkynes / Density functional calculations / Electrophilicity / Strain



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

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

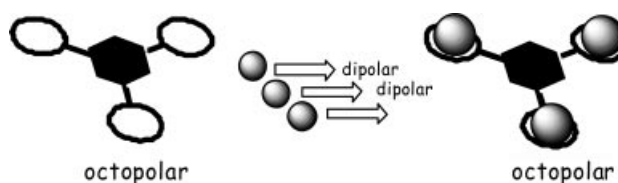


516 G. Hennrich,* K. Rurack,* M. Spieles



Reconfiguration of the Symmetry and Charge-Transfer Characteristics of a Triply Crowned 1,3,5-Tris(arylalkynyl)mesitylene by Successive Metal Ion Complexation

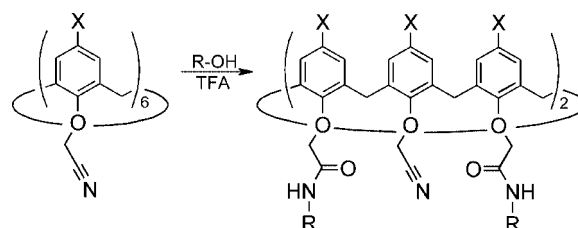
Keywords: Acetylenic scaffolding / Donor–acceptor systems / Fluorescence spectroscopy / UV/Vis spectroscopy / Supramolecular chemistry



522 I. M. Vatsouro, E. A. Shokova,
A. K. Shestakova, V. A. Chertkov,
V. V. Kovalev*

Conformational Restriction of the Calix[6]arene Macrocycle by the Ritter Reaction

Keywords: Calixarenes / Amides / Regioselectivity / Conformation analysis / Adamantane



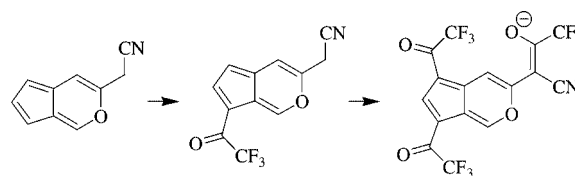
X = *t*Bu, 1-Ad, 3-MeOCOCH₂-1-Ad

R = *t*Bu, 1-Ad

531 E. Güllük, E. Bogdan, M. Christl*

3-Substituted Cyclopenta[*c*]pyrans: Synthesis and Electrophilic Substitutions

Keywords: Electrophilic substitution / Fluorescence / Heterocycles / Olefination / α -Pyrone



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