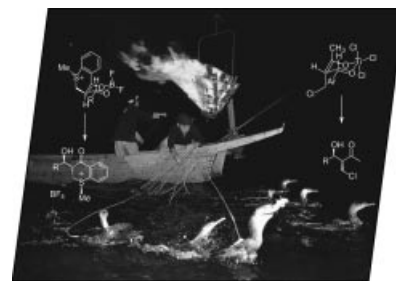


COVER PICTURE

The cover picture shows cormorant fishing “Ukai” (the ancient techniques of fishing) on the Nagara River, Gifu, Japan, where the research reported in the Microreview by T. Kataoka and H. Kinoshita on p. 45 ff. was performed. You can imagine a fisherman “Usho”, who controls ten to twelve birds by handling the leash ropes, as a Lewis acid. His skilled use of leashes effects a fish catch just as the ability of a Lewis acid to chelate reactants has a great influence on the reaction. You enjoy a wonderful spectacle from May 11 to October 15 every year and the research throughout the year in Gifu, Japan.



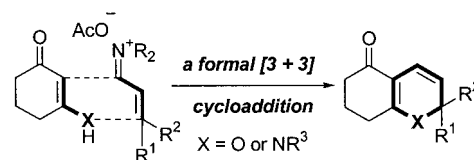
MICROREVIEWS

Contents

23 R. P. Hsung,* A. V. Kurdyumov,
 N. Sydorenko

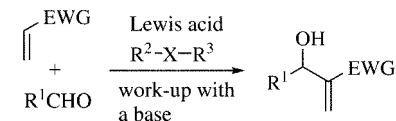
A Formal [3 + 3] Cycloaddition Approach to Natural-Product Synthesis

Keywords: Cyclization / Cycloaddition / Electrocyclic
 reactions / Heterocycles / Total synthesis

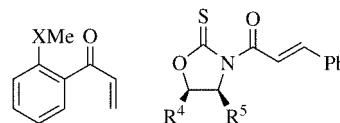


Chalcogenide–Lewis Acid Mediated Tandem Michael Aldol Reaction – an Alternative to the Morita–Baylis–Hillman Reaction and a New Development

Keywords: Aldol reactions / Alkenes / C–C coupling / Chalcogens / Michael addition



EWG: electron-withdrawing group
X = S, Se



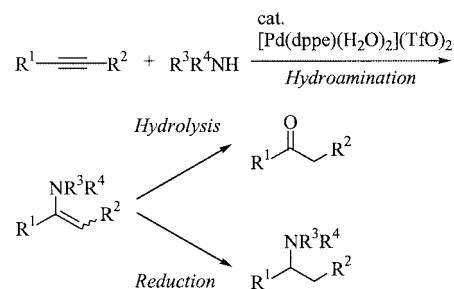
also applicable

SHORT COMMUNICATIONS



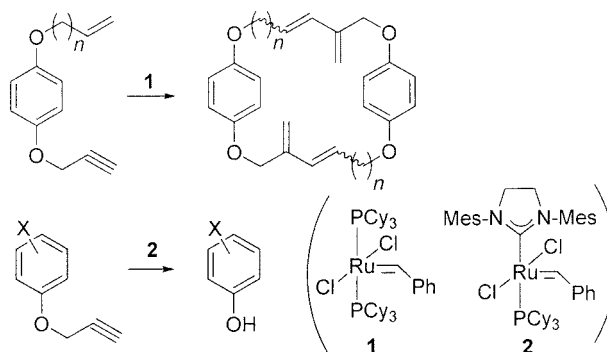
Aquapalladium Complex: A Stable and Convenient Catalyst for the Intermolecular Hydroamination of Alkynes

Keywords: Aquapalladium catalyst / Hydroamination / Alkynes / Arylamines / Imines



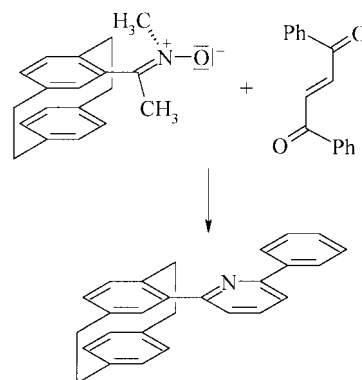
Ring-Closing Metathesis Dimerizations of Enynes and Deprotections of Propargyl Ethers Mediated by Carbene Ruthenium Complexes

Keywords: Deprotection / Dimerization / Metathesis / Propargyl ethers / Carbene ruthenium Complexes



A Simple Route to a Pyridinyl[2.2]paracyclophane

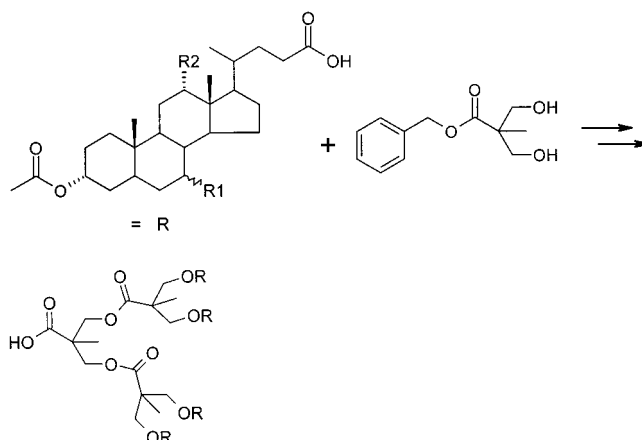
Keywords: Nitrones / Dipolar cycloadditions / Chiral cyclophanes / X-ray diffraction / Cycloadditions



**73 J. Ropponen, J. Tamminen, M. Lahtinen,
J. Linnanto, K. Rissanen,* E. Kolehmainen**



Synthesis, Characterization, and Thermal Behavior of Steroidal Dendrons

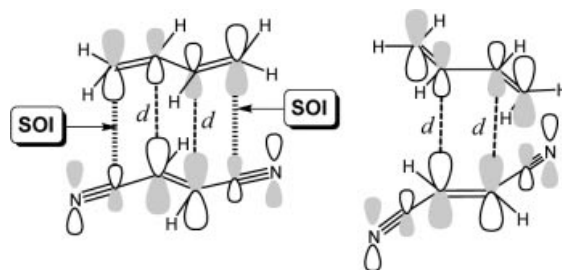


Keywords: Aliphatic esters / Bile acids / Dendrimers / Steroids / Thermal analysis

85 J. I. García, J. A. Mayoral, L. Salvatella*



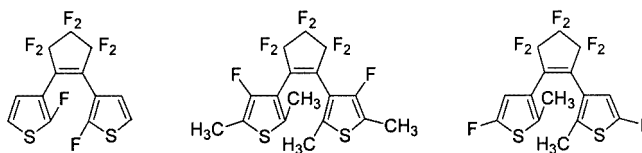
The Source of the *endo* Rule in the Diels–Alder Reaction: Are Secondary Orbital Interactions Really Necessary?



Keywords: Cycloaddition / Noncovalent interactions / Pi interactions / Through-space interactions

**91 K. Higashiguchi, K. Matsuda, Y. Asano,
A. Murakami, S. Nakamura, M. Irie***

Photochromism of Dithienylethenes Containing Fluorinated Thiophene Rings

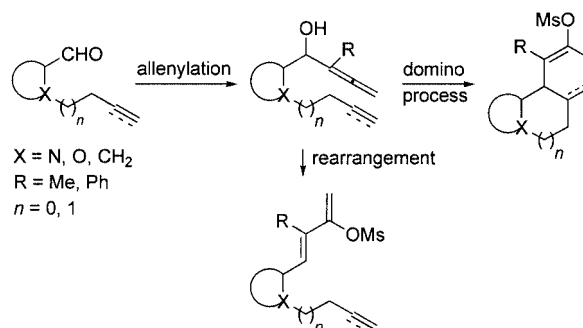


Keywords: Density functional calculations / Diaryl-ethenes / Fluorine / Photochromism / UV/Vis spectroscopy

**98 B. Alcaide,* P. Almendros,* C. Aragoncillo,
M. C. Redondo**



Stereoselective Synthesis of 1,2,3-Trisubstituted 1,3-Dienes through Novel [3,3]-Sigmatropic Rearrangements in α -Allenic Methanesulfonates: Application to the Preparation of Fused Tricyclic Systems by Tandem Rearrangement/Diels–Alder Reaction

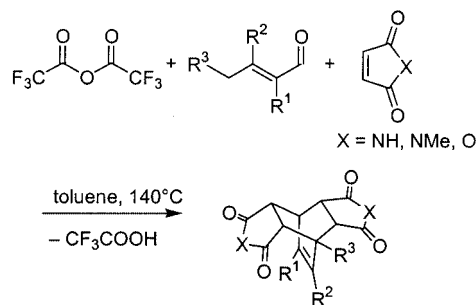


Keywords: Allenes / Cycloaddition / Dienes / Domino reactions / Sigmatropic rearrangement

107 D. Strübing, A. J. von Wangelin,
H. Neumann, D. Gördes, S. Hübner,
S. Klaus, A. Spannenberg, M. Beller*

Multicomponent Reaction of Aldehydes, Anhydrides, and Dienophiles: Synthesis of “Butterfly”-Like Diazatetradecenes

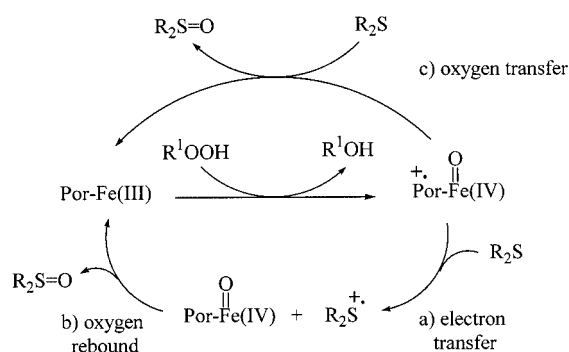
Keywords: Domino reactions / Multicomponent reactions / Diazatetradecenes / Diels–Alder reaction



114 A. B. Peñéñory,* J. E. Argüello, M. Puiatti

Novel Model Sulfur Compounds as Mechanistic Probes for Enzymatic and Biomimetic Oxidations

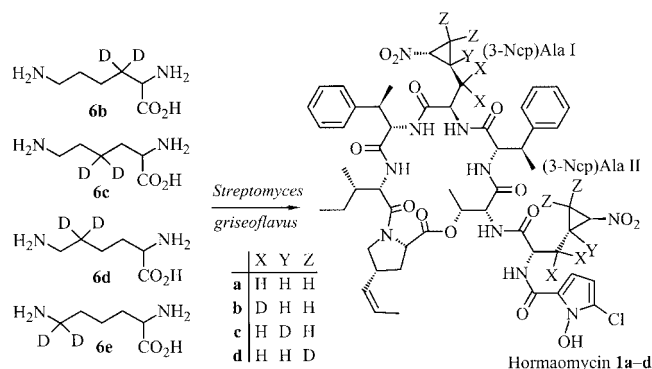
Keywords: Electron transfer / Enzyme catalysis / Sulfide radical cation / Sulfoxidation



123 M. Brandl, S. I. Kozhushkov,
B. D. Zlatopolskiy, P. Alvermann,
B. Geers, A. Zeeck,* A. de Meijere*

The Biosynthesis of 3-(*trans*-2-Nitrocyclopropyl)-alanine, a Constituent of the Signal Metabolite Hormaomycin

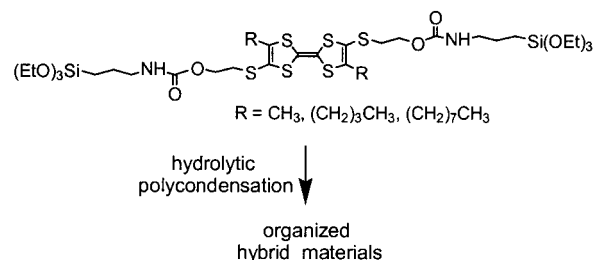
Keywords: Natural products / Amino acids / Synthetic methods / Isotopic labeling / Biosynthesis



136 N. Bellec, F. Lerouge, B. Pichon,
G. Cerveau, R. J. P. Corriu, D. Lorcy*

(Trialkoxysilyl)tetrathiafulvalenes: Precursors of Organized Organic-Inorganic Hybrid Materials by Sol-Gel Chemistry

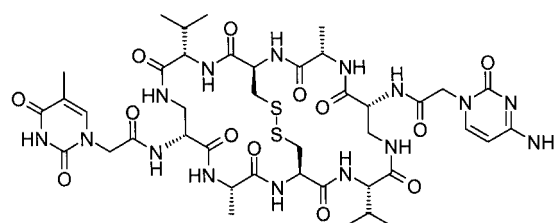
Keywords: Cyclic voltammetry / Sol-gel processes / Tetrathiafulvalene / Xerogels



147 B. Dietrich, U. Diederichsen*

Synthesis of Cyclopeptidic Analogues of Triostin A with Quinoxalines or Nucleobases as Chromophores

Keywords: Amino acids / Bis(intercalator) / Cyclic peptides / Nucleic acids / Triostin A

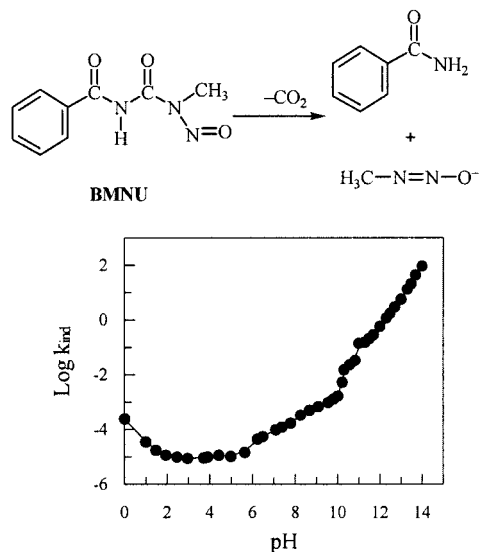


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C. Faustino, L. García-Río, J. R. Leis,
F. Norberto

Decomposition of *N'*-Benzoyl-*N*-nitrosoureas in
Aqueous Media

Keywords: Deamination / Hydrolysis / Kinetics /
Mechanism / Nitrosation / Urea

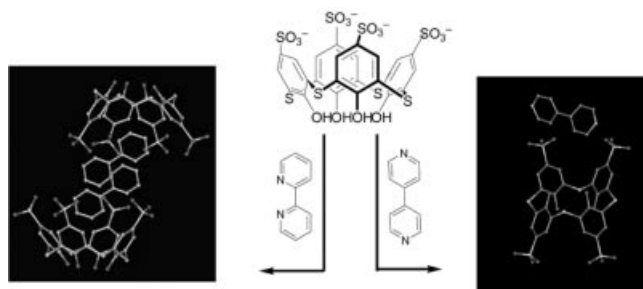


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Y. Liu,* D.-S. Guo, E.-C. Yang,
H.-Y. Zhang, Y.-L. Zhao

The Structures and Thermodynamics of Com-
plexes between Water-Soluble Calix[4]arenes and
Dipyridinium Ions

Keywords: Calixarenes / Conformation analysis /
Inclusion compounds / Nitrogen hetero-
cycles / Thermodynamics

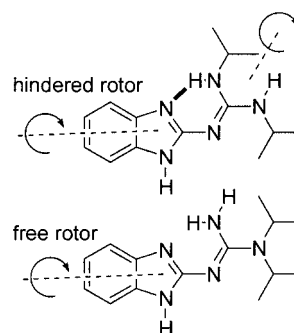


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J. Chen, P. G. Willis, S. Parkin,
A. Cammers*

In Search of the Weak, Six-Membered Intra-
molecular Hydrogen Bond in the Solution and
Solid States of Guanidinobenzimidazole

Keywords: Hydrogen bond / Conformation / Kinetics /
Solvent effects

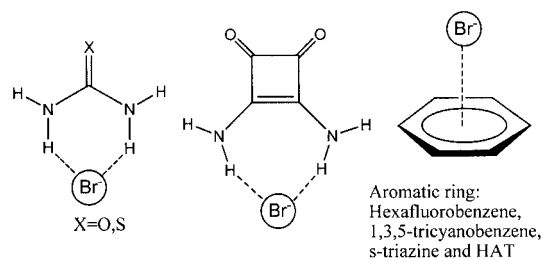


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C. Garau, A. Frontera,* P. Ballester,
D. Quiñonero, A. Costa, P. M. Deyà*

A Theoretical ab initio Study of the Capacity of
Several Binding Units for the Molecular Recogni-
tion of Anions

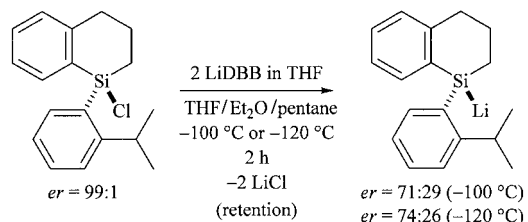
Keywords: Pi interactions / Ab initio calculations /
Electron-deficient compounds / Molecular
recognition



184 M. Oestreich,* G. Auer, M. Keller

On the Mechanism of the Reductive Metallation of Asymmetrically Substituted Silyl Chlorides

Keywords: Silicon / Lithiation / Radicals / Enantioselectivity / Asymmetric synthesis



196 J. O. Jeppesen,* S. Nygaard, S. A. Vignon, J. F. Stoddart*

Honing Up a Genre of Amphiphilic Bistable [2]Rotaxanes for Device Settings

Keywords: Electrochemistry / Kinetics / Molecular shuttles / Molecular switches / Rotaxanes / Tetrathiafulvalenes

