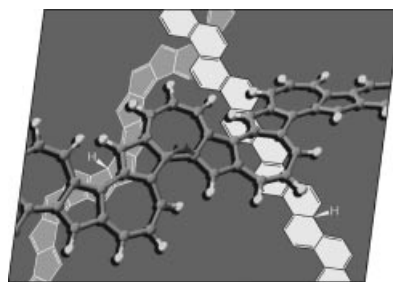


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COVER PICTURE

The cover picture shows several polycyclic organic tapes over which hydrogen atoms might migrate. While hydrogen migration over metal surfaces is commonplace, the facility of analogous processes in most fully organic systems is not known. Using quantum chemical calculations, D. J. Tantillo and R. Hoffmann estimate the energetic barriers associated with hydrogen migration in these and other systems. For more details, see the article on p. 273 ff.



MICROREVIEWS

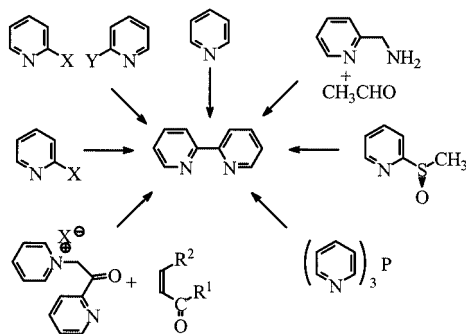
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G. R. Newkome,* A. K. Patri, E. Holder,
 U. S. Schubert*

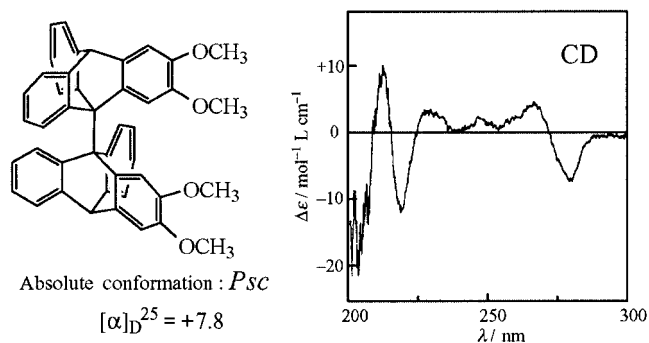
Synthesis of 2,2'-Bipyridines: Versatile Building
 Blocks for Sexy Architectures and Functional
 Nanomaterials

Keywords: Supramolecular chemistry / Functionaliz-
 ation / Polymers / Nanostructures



Absolute Conformation Revisited: Experimental Approach

Keywords: Atropisomerism / Chirality / Enantiomer resolution / Stereochemistry

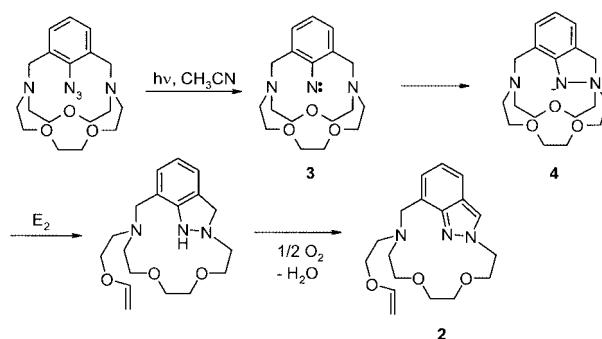


SHORT COMMUNICATION



Evidence for Intramolecular Ylide Formation in the Decay of a Singlet Aryl Nitrene

Keywords: Nitrenes / Cryptands / Ylides / Density functional calculations / Elimination

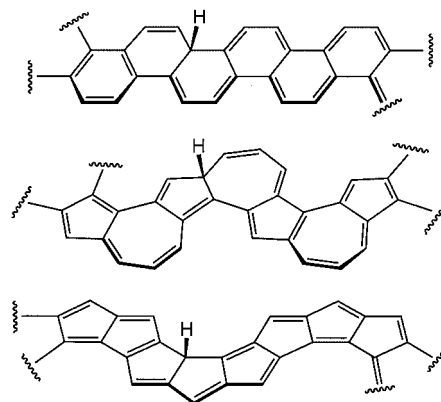


FULL PAPERS



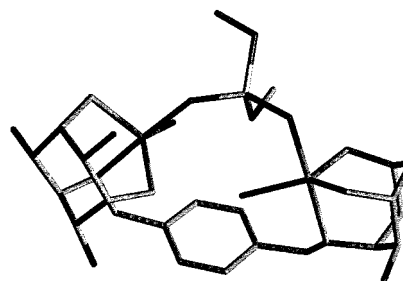
Hydrogen Migration Over Organic Tapes: [1,5] Sigmatropic Shiftamers

Keywords: Sigmatropic rearrangement / Polycyclic aromatic hydrocarbons / Hydrogen migrations



Dinuclear Metal Complexes Based on *all-cis*-2,4,6-Triaminocyclohexane-1,3,5-triol as Catalysts for Cleavage of Phosphate Esters

Keywords: Catalysis / Dimetallic complexes / Enzyme models / Phosphate ester hydrolysis / Tripodal ligands

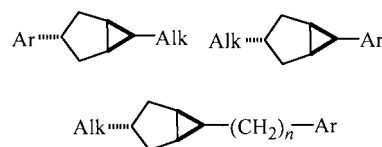


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S. I. Kozhushkov, R. Langer, D. S. Yufit,
J. A. K. Howard, H. Schill, D. Demus,
K. Miyazawa, A. de Meijere*

Novel Liquid Crystalline Compounds Contain-
ing Bicyclo[3.1.0]hexane Core Units

Keywords: Cross-coupling / Cycloadditions / Liquid
crystals / Small ring systems / Structure
elucidation

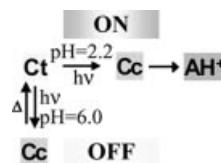


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M. C. Moncada, F. Pina,* A. Roque,
A. J. Parola, M. Maestri,* V. Balzani

Tuning the Photochromic Properties of a
Flavylium Compound by pH

Keywords: Flavylium / NMR spectroscopy / Photo-
chromic properties / Multistate/multifunc-
tional systems



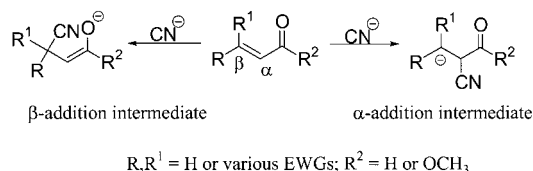
313

D. C. Chatfield,* A. Augsten, C. D'Cunha,
E. Lewandowska, S. F. Wnuk



Theoretical and Experimental Study of the
Regioselectivity of Michael Additions

Keywords: Density functional calculations / Michael
addition / Regioselectivity / Substituent
effects / Transition states

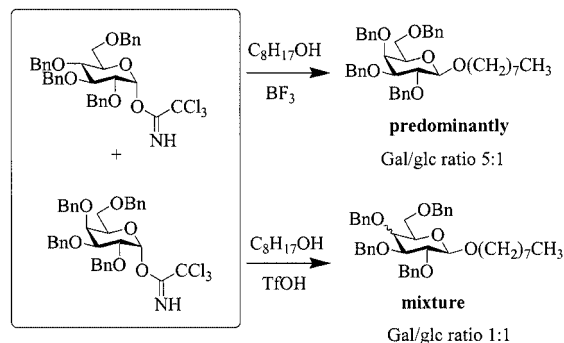


323

A. Bülow, T. Meyer, T. K. Olszewski,
M. Bols*

The C-4 Configuration as a Probe for the Study
of Glycosidation Reactions

Keywords: Carbohydrates / Substituent effects /
Substitution / Triflates



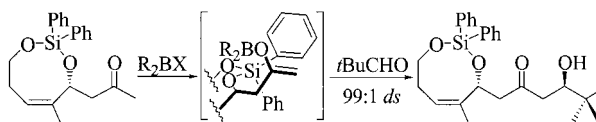
330

B. L. Stocker, P. Teesdale-Spittle,
J. O. Hoberg*



Studies on the Origin of 1,5-*anti* Induction in
Boron-Mediated Aldol Reactions

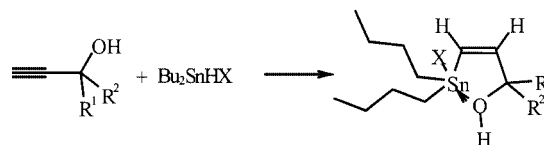
Keywords: Boron / Aldol reactions / 1,5-*anti* induc-
tion / Peloruside A



337 C. M. Thiele, T. N. Mitchell*

Hydrostannylation of Propargylic Alcohols Using Mixed Tin Hydrides

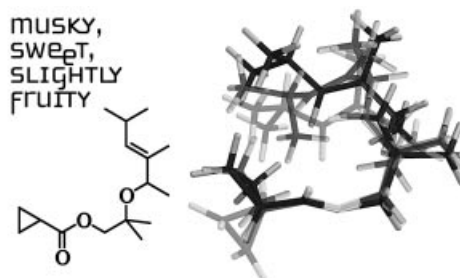
Keywords: Tin / Hydrides / Regioselectivity / Alcohols / C–C coupling



354 P. Kraft,* W. Eichenberger

Synthesis and Odor of Aliphatic Musks: Discovery of a New Class of Odorants

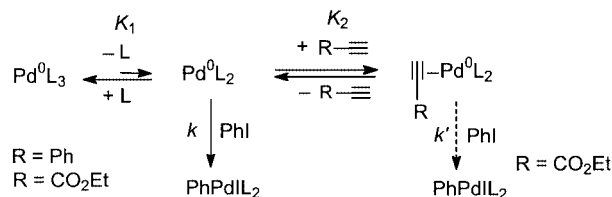
Keywords: Conformation analysis / Fragrances / Musks / Olfactory properties / Structure–activity relationships



366 C. Amatore,* S. Bensalem, S. Ghalem, A. Jutand,* Y. Medjour

Decelerating Effect of Alkynes in the Oxidative Addition of Phenyl Iodide to Palladium(0) Complexes in Palladium-Catalyzed Multicomponent Reactions and Sonogashira Reactions

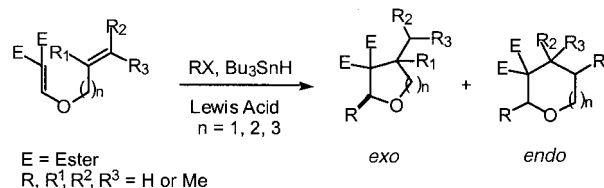
Keywords: Alkynes / Kinetics / Mechanism / Oxidative addition / Palladium



372 M. P. Sibi,* K. Patil, T. R. Rheault

Synthesis of Oxacycles by Tandem Radical Addition–Cyclization Reactions

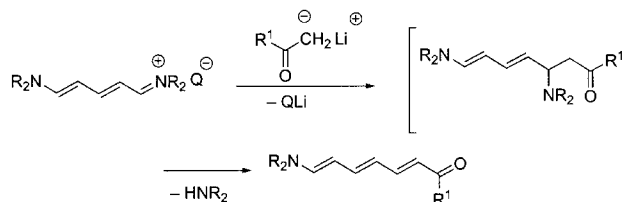
Keywords: Radicals / Diastereoselectivity / Lanthanides / Cyclization / Lewis acids



385 L. Viteva, T. Gospodova, Y. Stefanovsky, K. Petrova, I. Timtcheva, M.-R. Mazières, J.-G. Wolf*

Organometallics in Cyanine Chemistry – Synthesis, Reactivity and Photophysical Properties of some Heptamethine Merocyanine Dyes

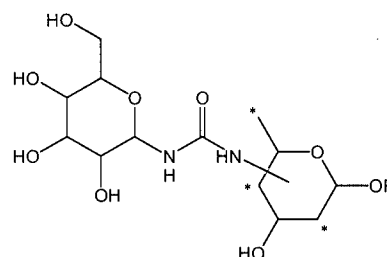
Keywords: Lithium metallation / Carbanions / Nucleophilic addition / Fluorescence spectroscopy / UV/Vis spectroscopy



395 D. Prosperi,* S. Ronchi, L. Lay, A. Rencurosi, G. Russo

Efficient Synthesis of Unsymmetrical Ureido-Linked Disaccharides

Keywords: Ureas / Intersaccharidic linkages / Carbohydrates / Glycosides / Oligosaccharides

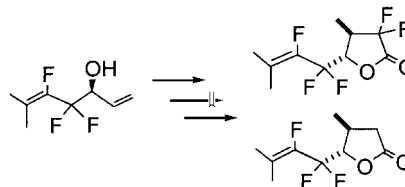


406 T. Itoh,* K. Kudo, K. Yokota, N. Tanaka,
S. Hayase, M. Renou*



Synthesis and Biological Activity of Point-Fluorinated Pheromone Analogues of *Eldana saccharina*

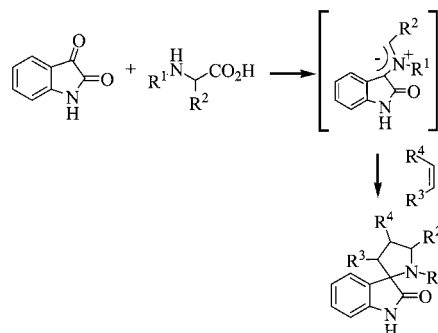
Keywords: Asymmetric synthesis / Bioorganic chemistry / Fluorine / Pheromones / Radical reaction



413 S. Rehn, J. Bergman,* B. Stensland

The Three-Component Reaction between Isatin, α -Amino Acids, and Dipolarophiles

Keywords: α -Amino acid / Cycloadditions / Nitrogen heterocycles

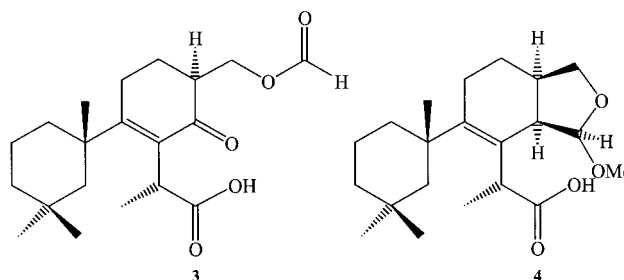


419 R. A. Keyzers, P. T. Northcote,*
O. A. Zubkov



Novel Anti-Inflammatory Spongian Diterpenes from the New Zealand Marine Sponge *Chelonaplysilla violacea*

Keywords: Biological activity / Formates / Marine sponges / Natural products / Terpenoids

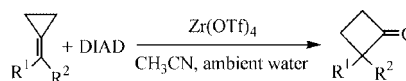


426 L.-X. Shao, M. Shi*



Ring-Expansion of MCPs in the Presence of DIAD or DEAD and Lewis Acids

Keywords: Diethyl azodicarboxylate (DEAD) / Diisopropyl azodicarboxylate (DIAD) / Lewis acids / Ring expansion



431 T. Leibold,* F. Sasse, H. Reichenbach,
G. Höfle

Cyrmenins, Novel Antifungal Peptides Containing a Nitrogen-Linked β -Methoxyacrylate Pharmacophore: Isolation and Structural Elucidation

Keywords: Dehydropeptides / Fungicides / Myxobacteria / Natural products / Structure elucidation

