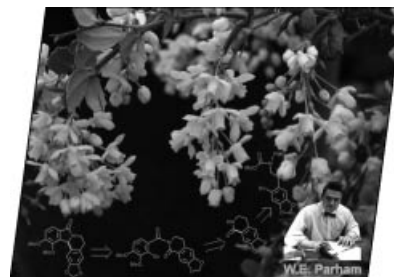


COVER PICTURE

The cover picture shows a specimen of *Berberiis darwinii* Hook gathered in Southern Chile, in the vicinity of Ciudad Orsono. One can also see a photo of W. E. Parham (1922–1976) who developed a new annulation process that has been applied for the total synthesis of Nuevamine, the first iso-indolo[1,2-*a*]isoquinolone known to occur in nature and that has been isolated from this plant. Details are discussed in the article by A. Couture et al. on p. 3437ff.



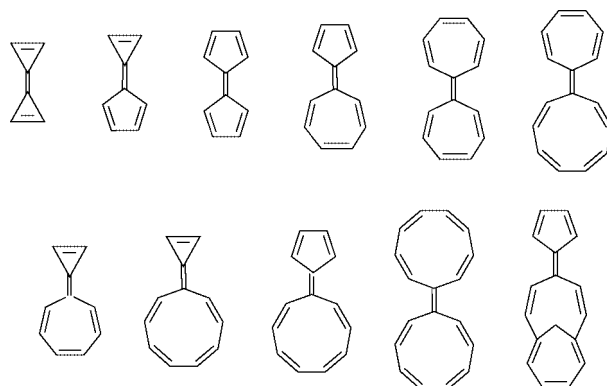
MICROREVIEWS

Contents

3391 B. Halton*

The Fulvalenes

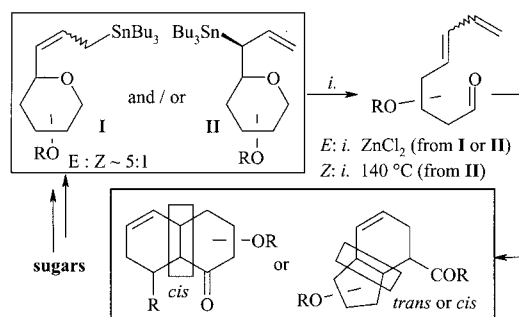
Keywords: Hydrocarbons / Cyclic alkenes / Strained molecules / Cross conjugation



3415 S. Jarosz,* A. Gawel

Sugar Allyltin Compounds: Preparation and Application in Organic Synthesis

Keywords: Carbohydrates / Organotin compounds / Carbocycles / Allylation / Synthesis design



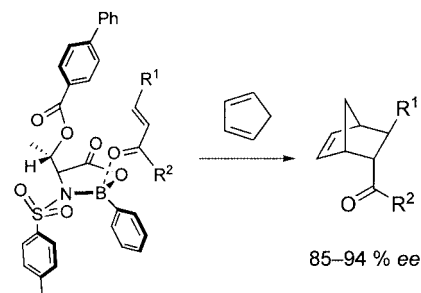
SHORT COMMUNICATION

3433 R. S. Singh, T. Harada*



Enantioselective Diels–Alder Reaction of Acyclic Enones Catalyzed by *allo*-Threonine-Derived Chiral Oxazaborolidinone

Keywords: Asymmetric catalysis / Asymmetric synthesis / Boron / Cycloaddition / Lewis acids

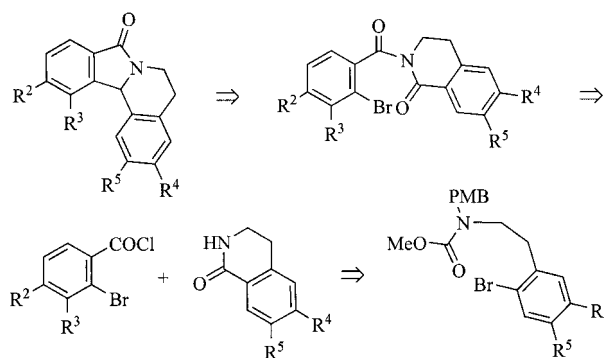


FULL PAPERS

3437 A. Moreau, A. Couture,* E. Deniau, P. Grandclaude

Construction of the Six- and Five-Membered Aza-Heterocyclic Units of the Isoindoloisoquinoline Nucleus by Parham-Type Cyclization Sequences – Total Synthesis of Nuevamine

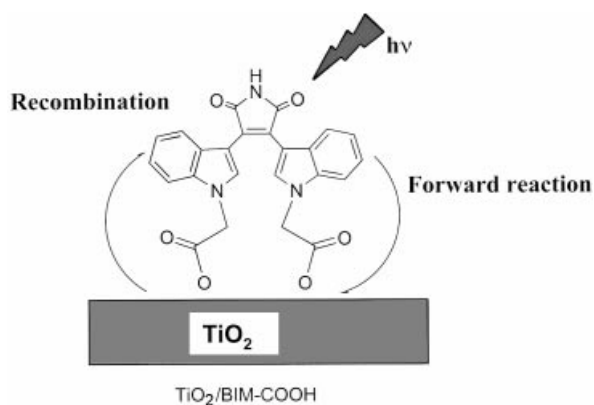
Keywords: Carbanion / Cyclization / Natural products / Total synthesis



3443 B. K. Kaletas, V. N. Kozhevnikov, M. Zimine, R. M. Williams, B. König,* L. De Cola*

Sensitization of Nanocrystalline TiO₂ Films with Carboxy-Functionalized Bis(indolyl)maleimide

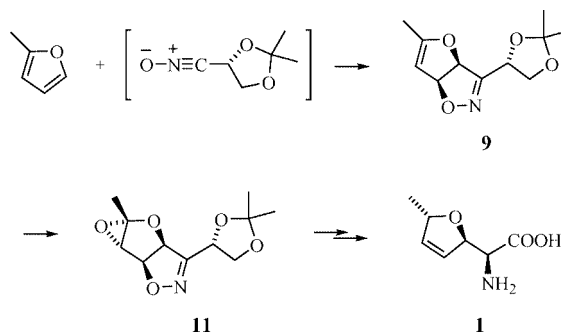
Keywords: Photochemistry / Electron transfer / Sensitizers / Thin films / Time-resolved spectroscopy



3450 P. J. Zimmermann, J. Y. Lee,
I. Hlobilova (née Blanarikova),
R. Endermann, D. Häbich, V. Jäger*

Synthesis of L-Furanomycin and Its Analogues
via Furoisoxazolines

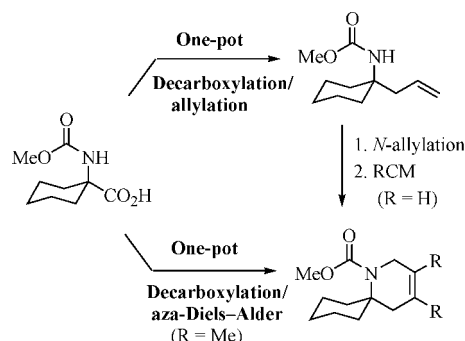
Keywords: Furanomycin / Amino acids / Antibiotics /
Nitrile oxide / Cycloaddition / Dimethyldi-
oxirane



3461 A. Boto,* Y. De León, J. A. Gallardo,
R. Hernández*

Synthesis of Alkaloid Analogues from α -Amino
Acids by One-Pot Radical Decarboxylation/
Alkylation

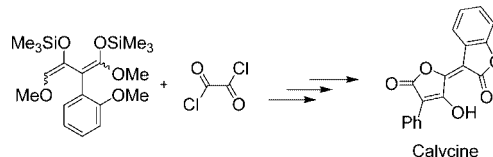
Keywords: Alkaloids / Amino acids / Nitrogen hetero-
cycles / Radical reactions / Spiro com-
pounds



3469 Z. Ahmed, U. Albrecht, P. Langer*

Synthesis of Leprapinic Acid, Calycine and
Analogues by Sequential “[3+2] Cyclization/
Suzuki/Lactonization” Reactions

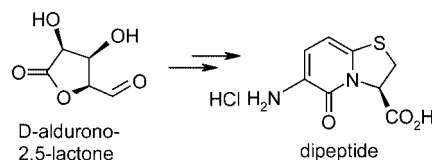
Keywords: Butenolides / Cyclizations / Heterocycles /
Lactones / Natural products / Leprapinic
acid



3475 P. Tremmel, A. Geyer*

Pyridone Dipeptides – Synthesis of a Novel
Peptide Chromophore

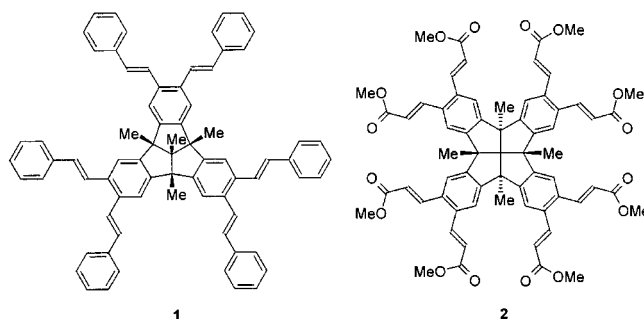
Keywords: Peptidomimetics / Peptides / Heterocycles /
Lactams / Bicyclic dipeptides / Amino acids



3482 X.-P. Cao,* D. Barth, D. Kuck*

Multiple Vinylation of Tribenzotriquinacenes
and Fenestrindanes at Their Aromatic Peripher-
ies by Use of Nájera's Catalyst

Keywords: Convex-concave molecules / Tribenzotri-
quinacenes / Fenestrindanes / Indane de-
rivatives / Heck cross coupling reaction /
Multiple vinylation

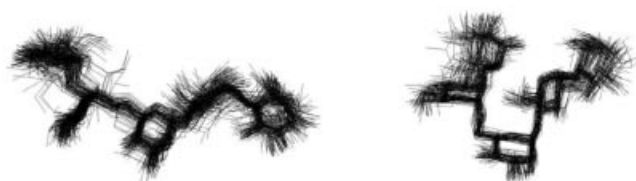


3489 F. Chevalier, J. Lopez-Prados, S. Perez,
M. Martín-Lomas, P. M. Nieto*



Conformational Study of GPI Anchors: the Common Oligosaccharide GPI Anchor Backbone

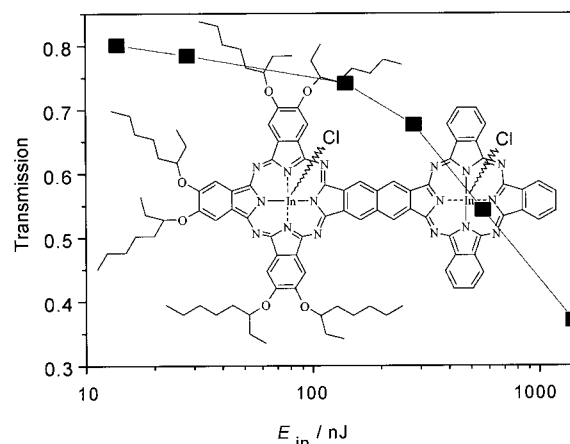
Keywords: GPI anchor / Conformational analysis/
Molecular flexibility/ Molecular modelling / NMR spectroscopy



3499 M. J. F. Calvete, D. Dini, S. R. Flom,
M. Hanack,* R. G. S. Pong, J. S. Shirk

Synthesis of a Bisphthalocyanine and Its Non-linear Optical Properties

Keywords: Phthalocyanine / Dimer / Binuclear complex / Reverse saturable absorption / Excited state absorption / Pulsed laser

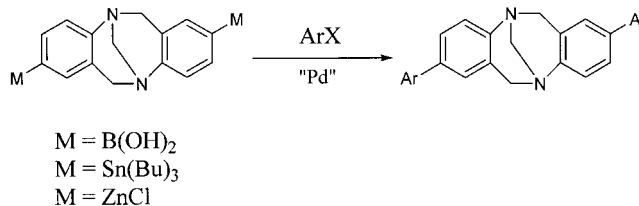


3510 C. Solano, D. Svensson, Z. Olomi, J. Jensen,
O. F. Wendt, K. Wärnmark*



Introduction of Aromatic and Heteroaromatic Groups in the 2- and 8-Positions of the Tröger's Base Core by Suzuki, Stille and Negishi Cross-Coupling Reactions – A Comparative Study

Keywords: Tröger's base / Cross-coupling / X-ray diffraction

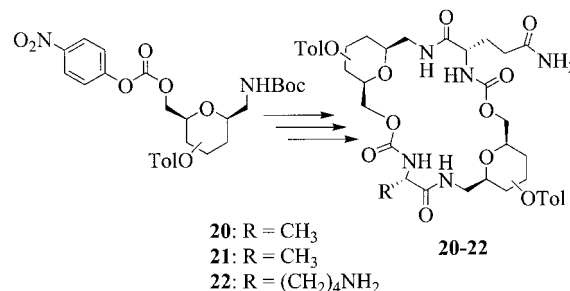


3518 J. Katajisto,* H. Lönnberg



Solid-Phase Synthesis of Cyclic C-Glycoside/ Amino Acid Hybrids by Carbamate Coupling Chemistry and On-Support Cyclization

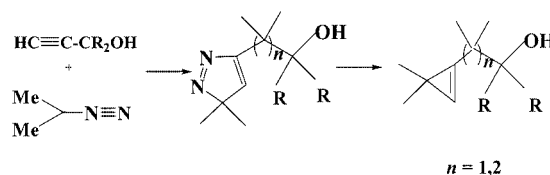
Keywords: Solid-phase synthesis / C-glycosides / Amino acids / Cyclization



3526 N. Hamdi,* P. H. Dixneuf, A. Khemiss

Synthesis of New 3*H*-Pyrazoles and Cyclopropenyl Alcohols Directly from Propargyl Alcohols

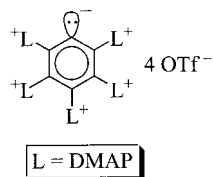
Keywords: Diazoalkanes / Cycloaddition / Photolysis / Nitrogen heterocycles / Cyclopropenes



3530 R. Weiss,* S. M. Huber, F. G. Pühlhofer

Massive Electrostatic Effects on Heteropolar C–C Disconnections: Transforming a Phenyl Anion into a Potent Leaving Group

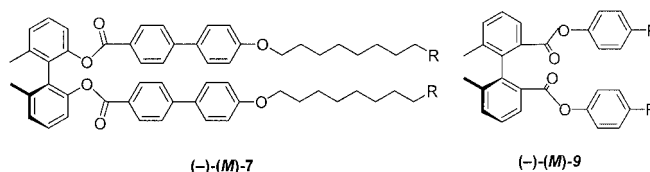
Keywords: Electrostatic effects / C–C disconnection / Nucleofuges / Ion clusters / SASAPOS cascades



3536 R. Holzwarth, R. Bartsch, Z. Cherkaoui, G. Solladié*

New 2,2'-Substituted 6,6'-Dimethylbiphenyl Derivatives Inducing Strong Helical Twisting Power in Liquid Crystals

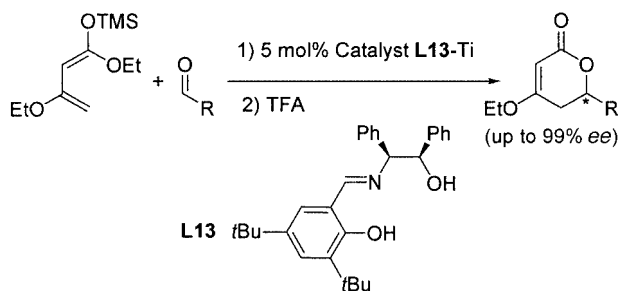
Keywords: Biphenyl / Asymmetric synthesis / Induced cholesteric / Pitch / Screw sense



3542 Q. Fan, L. Lin, J. Liu, Y. Huang, X. Feng*

A Mild and Efficient Asymmetric Hetero-Diels–Alder Reaction of the Brassard Diene with Aldehydes

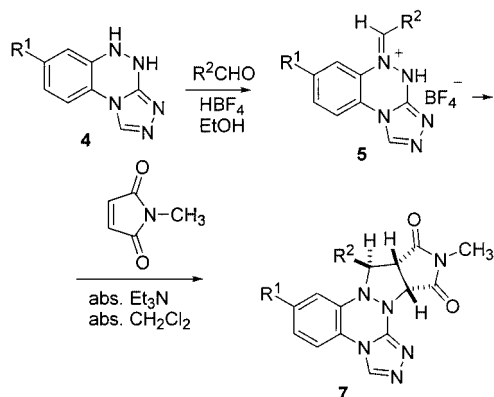
Keywords: Brassard diene / Cycloaddition / Diels–Alder reaction / Schiff bases / Lactones



3553 C. Gróf, G. Hegedűs, Z. Riedl, G. Hajós,* O. Egyed, A. Csámpai, V. Kudar, B. Stanovnik

Selective Synthesis and Cycloaddition Reactions of New Azomethine Imines Containing a 1,2,4-Triazine Ring

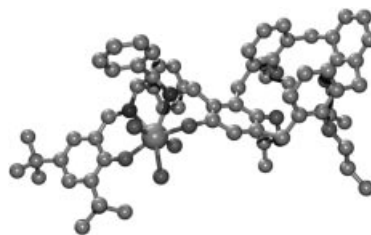
Keywords: Azomethine imine / 1,3-Dipolar cycloaddition / Regioselectivity / Mesomeric betaine / Solvatochromism



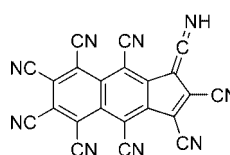
3562 M. E. Amato, F. P. Ballistreri, A. Pappalardo, G. A. Tomaselli,* R. M. Toscano, D. J. Williams

Novel Chiral (Salen)Mn^{III} Complexes Containing a Calix[4]arene Unit as Catalysts for Enantioselective Epoxidation Reactions of (Z)-Aryl Alkenes

Keywords: Salen-calix[4]arene / Alkenes / Epoxidation / Enantioselectivity

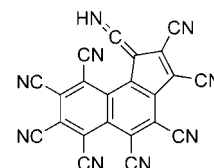


Strong Acidity of Some Polycyclic Aromatic Compounds Annulated to a Cyclopentadiene Moiety and Their Cyano Derivatives – A Density Functional B3LYP Study



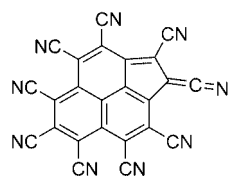
$$\Delta H_{\text{acid}} = 261.8 \text{ kcal mol}^{-1}$$

$$\text{p}K_{\text{a}}(\text{DMSO}) = -17.8$$



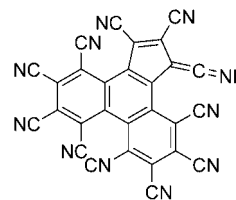
$$\Delta H_{\text{acid}} = 264.0 \text{ kcal mol}^{-1}$$

$$\text{p}K_{\text{a}}(\text{DMSO}) = -16.3$$



$$\Delta H_{\text{acid}} = 252.2 \text{ kcal mol}^{-1}$$

$$\text{p}K_{\text{a}}(\text{DMSO}) = -21.2$$

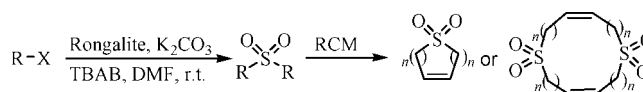


$$\Delta H_{\text{acid}} = 254.1 \text{ kcal mol}^{-1}$$

$$\text{p}K_{\text{a}}(\text{DMSO}) = -17.6$$

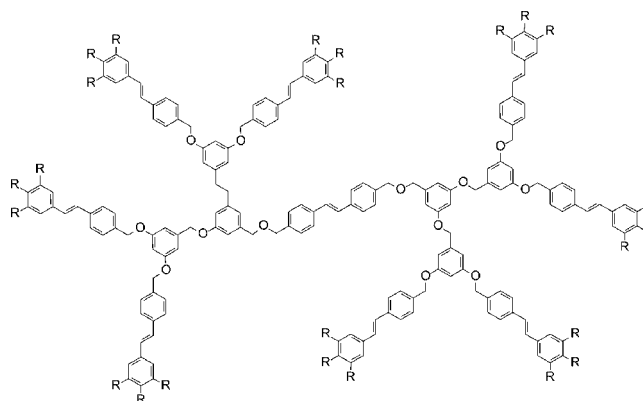
Keywords: Anionic resonance / Acidity / Polarized continuum model / Substituent effects / Superacidic systems

Synthesis of Symmetrical Sulfones from Rongalite: Expansion to Cyclic Sulfones by Ring-Closing Metathesis



Keywords: Rongalite / Ring-closing metathesis / Sulfones / Sulfur heterocycles

Preparation and Photochemistry of Dendrimers with Isolated Stilbene Chromophores



Keywords: Crosslinking / Cyclization / Dendrimers / Isomerization