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COVER PICTURE

The cover picture shows a display of fireworks of fullerenes! Highly soluble dendritic branches with methanofullerene subunits at the periphery have been prepared by an efficient repetitive synthetic sequence that allows the dendritic growth of up to the fifth-generation derivative, which contains 16 peripheral fullerene subunits. Details are discussed in the article by J.-F. Nierengarten et al. on p. 85ff.



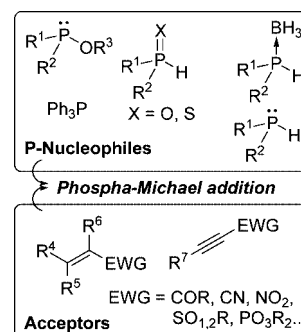
MICROREVIEWS

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- 29 D. Enders,* A. Saint-Dizier, M.-I. Lannou,
 A. Lenzen

The Phospha-Michael Addition in Organic Synthesis

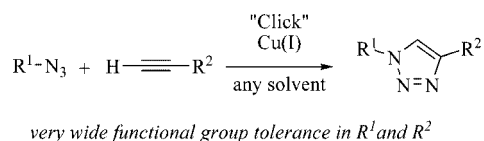
Keywords: Michael addition / Conjugate addition /
 Phosphorus / Asymmetric synthesis



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V. D. Bock, H. Hiemstra,
J. H. van Maarseveen*

Cu^I-Catalyzed Alkyne–Azide “Click” Cycloadditions from a Mechanistic and Synthetic Perspective



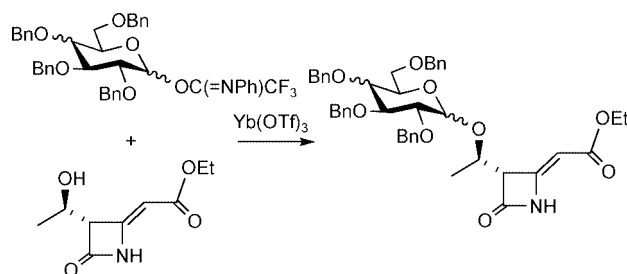
Keywords: Click chemistry / Cycloaddition / Heterocycles / Molecular diversity / Azides

SHORT COMMUNICATIONS

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M. Adinolfi, P. Galletti, D. Giacomini,
A. Iadonisi,* A. Quintavalla, A. Ravidà

Toward Novel Glyconjugates: Efficient Synthesis of Glycosylated 4-Alkylidene-β-lactams

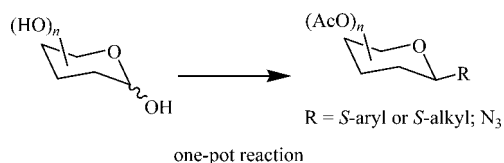


Keywords: Glycoconjugates / β-Lactams / Glycosylation / Ytterbium(III) triflate

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R. Kumar, P. Tiwari, P. R. Maulik,
A. K. Misra*

A Generalized Procedure for the One-Pot Preparation of Glycosyl Azides and Thioglycosides Directly from Unprotected Reducing Sugars under Phase-Transfer Reaction Conditions

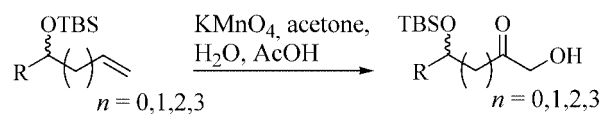


Keywords: Carbohydrates / Synthetic methods / Acylation / Phase-transfer catalysis / Glycoconjugate

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C. Bonini,* L. Chiumminto, M. Funicello,
P. Lupattelli, M. Pullez

New Functionalised Hydroxymethyl Ketones from the Mild and Chemoselective KMnO₄ Oxidation of Chiral Terminal Olefins



Keywords: Oxidation / Potassium permanganate / Terminal olefins / Hydroxymethyl ketones / Polyols

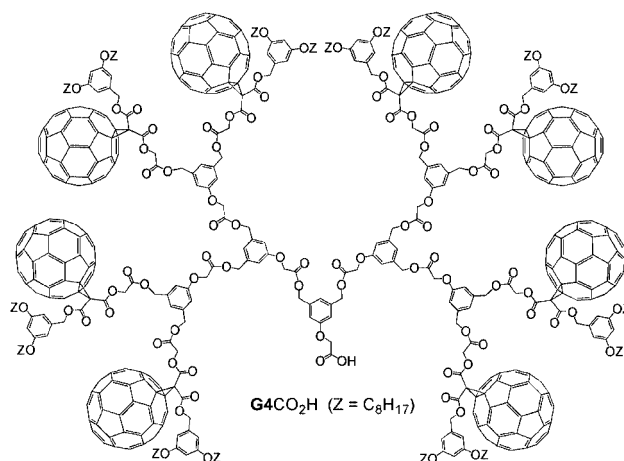


85 U. Hahn, K. Hosomizu, H. Imahori,*
J.-F. Nierengarten*



Synthesis of Dendritic Branches with Peripheral Fullerene Subunits

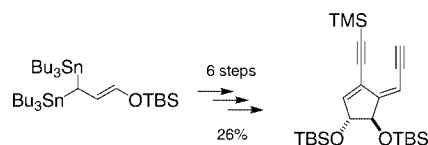
Keywords: Dendrimer / Fullerene / Esterification



92 D. Madec, J.-P. F  r  zou*

The Application of $[\gamma\text{-(Silyloxy)allylidene}]$ ditin to the Efficient Synthesis of the Chromophore of the Neocarzinostatin Dihydroxycyclopentene-Based Dienediyn Core

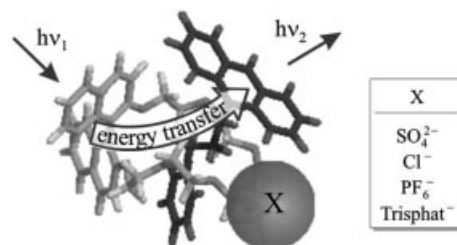
Keywords: Allylation / Antitumour agents / Cyclisation / Diastereoselectivity / Palladium / Tin



105 M. Clemente-Le  n, C. Pasquini,
V. Hebbe-Viton, J. Lacour, A. Dalla Cort,*
A. Credi*

Ion-Pairing Effects in the Self-Assembly of a Fluorescent Pseudorotaxane

Keywords: Ion pairs / Photochemistry / Rotaxanes / Self-assembly / Molecular recognition

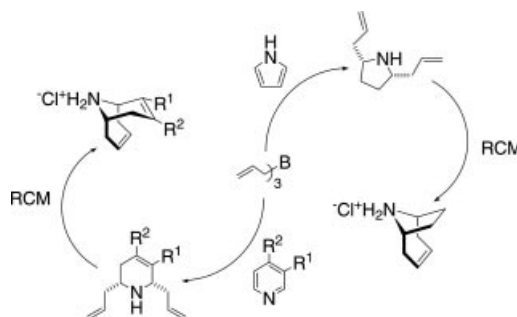


113 N. Yu. Kuznetsov, V. N. Khrustalev,
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Synthesis of Bridged Azabicycles from Pyridines and Pyrrole by a Diallylboration – Ring Closing Metathesis Sequence

Keywords: Alkenes / Allylic compounds / Boron / Allylic boranes / Allylboration / Nitrogen heterocycles / Cyclization / Metathesis / Synthetic methods

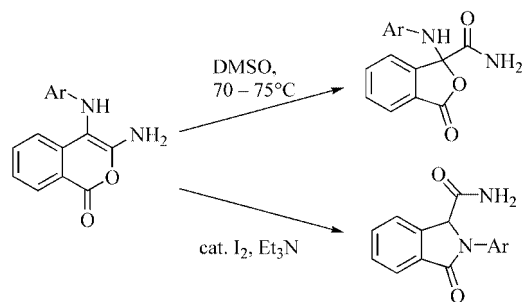


121 T. Opatz,* D. Ferenc



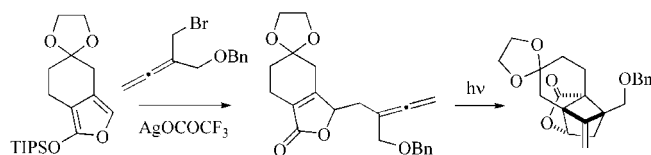
Ring Contracting Rearrangements of 3-Amino-4-(arylamino)-1*H*-isochromen-1-ones

Keywords: Heterocycles / Amines / Oxidation / Ring contraction / Rearrangements

127 B. T. B. Hue, J. Dijkink, S. Kuiper,
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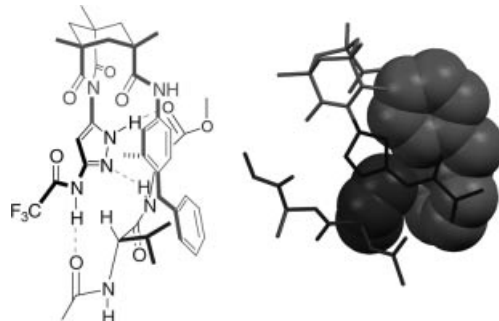
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Keywords: Allenes / Baylis–Hillman reaction / [2+2] Cycloaddition / Natural products / Photochemistry / Terpenoids

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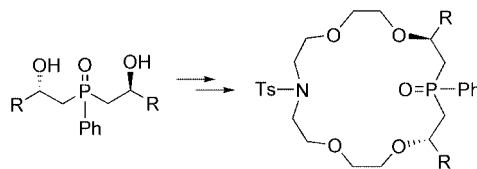
Sequence-Selective Peptide Recognition with Designed Modules

Keywords: Amino acids / Molecular recognition / Peptides / Rational design / Receptors / Sequence selectivity / Noncovalent interactions

154 A. Theil, J. Hitce, P. Retailleau,
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A Synthetic Approach to Macrocyclic, Chiral Phosphane Derivatives with Crown-Ether-Like Structures

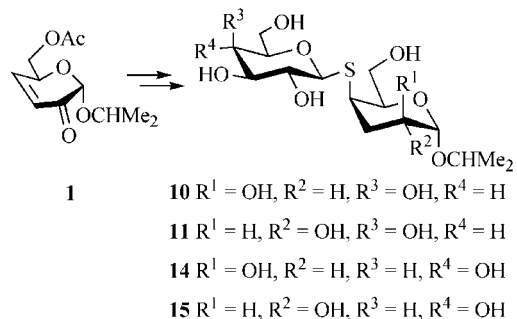
Keywords: Phosphorus / Crown compounds / Macrocyclic ligands



162 M. L. Uhrig, V. E. Manzano, O. Varela*

Stereoselective Synthesis of 3-Deoxy-4-*S*-(1→4)-Thiodisaccharides and Their Inhibitory Activities Towards β -Glycoside Hydrolases

Keywords: Carbohydrates / Thiodisaccharides / Michael addition / Glycoside hydrolases / Enzyme inhibition



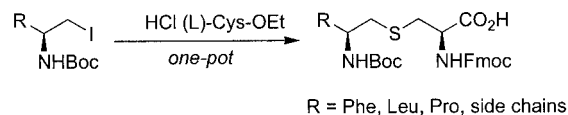
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A. Bolognese, O. Fierro, D. Guarino,
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One-Pot Synthesis of Orthogonally Protected Enantiopure *S*-(Aminoalkyl)cysteine Derivatives

Keywords: Thia diamino acids / *S*-Alkylation / Diversity / Cysteine / β -Iodoamines

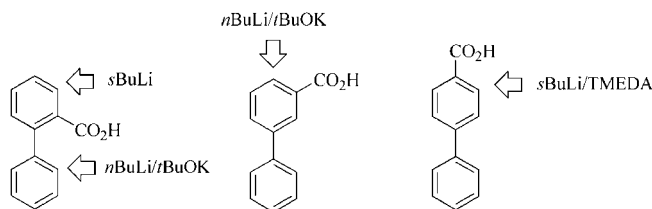


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The Expedient and Regioselective Metalation of Unprotected Biphenyl-2-, -3-, and -4-carboxylic Acids

Keywords: *ortho*-Lithiation / Unprotected benzoic acids / Organolithium compounds / Schlosser–Lochmann superbase / 9*H*-Fluoren-9-one

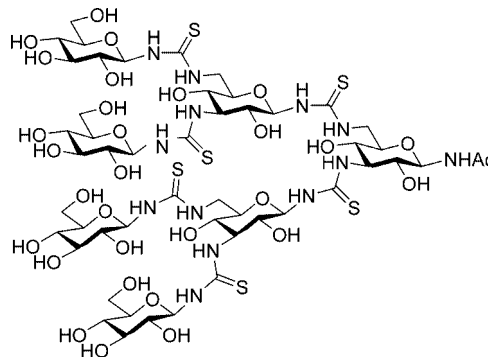


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The Synthesis and Structure of Linear and Dendritic Thiourea-Linked Glycooligomers

Keywords: Carbohydrates / Conformation analysis / Dendrimers / Glycooligomers / Hydrogen bonding

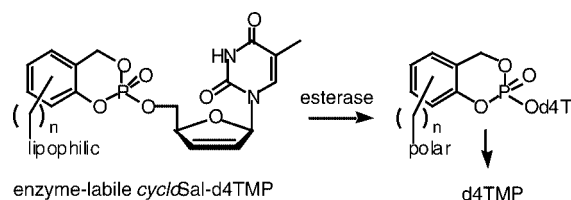


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Second-Generation *cycloSal*-d4TMP Pronucleotides Bearing Esterase-Cleavable Sites – The “Trapping” Concept

Keywords: Antiviral agents / Bioorganic chemistry / Nucleosides / Phosphates / Pronucleotides

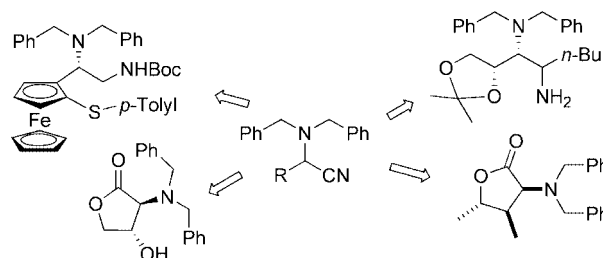


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L. Bernardi,* B. F. Bonini, E. Capitò,
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M. Fochi, R. P. Herrera, A. Ricci*

Towards the Synthesis of Highly Functionalized Chiral α -Amino Nitriles by Aminative Cyanation and Their Synthetic Applications

Keywords: Synthetic methods / Cyanides / Chiral pool / α -Amino nitriles / Stereoselectivity

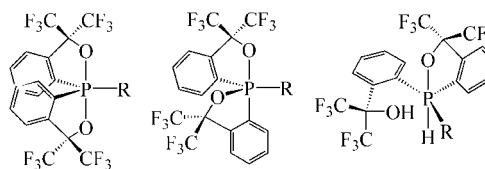


**218 S. Kojima, K. Kajiyama, M. Nakamoto,
S. Matsukawa, K. Akiba***



The Ligand-Exchange Process of P–H_{apical} Phosphoranes and the Thermal Formation and Pseudorotation of Anti-Apicophilic Spirophosphoranes

Keywords: Anti-apicophilic compounds / Hypervalent compounds / Kinetics / Phosphoranes / Pseudorotation

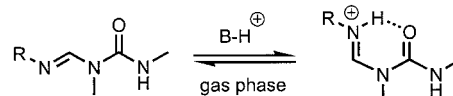


5 (R = Me, *n*Bu, *t*Bu) **6** (R = Me, *n*Bu, *t*Bu) **10** (R = Me, *n*Bu, *t*Bu)

235 D. D. Díaz, M. G. Finn,* M. Mishima*

Substituent Effects on the Gas-Phase Basicity of Formamidine Ureas

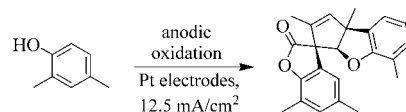
Keywords: Basicity / Formamidine / Urea / Protonation



**241 I. M. Malkowsky, C. E. Rommel,
K. Wedeking, R. Fröhlich, K. Bergander,
M. Nieger, C. Quaiser, U. Griesbach,
H. Pütter, S. R. Waldvogel***

Facile and Highly Diastereoselective Formation of a Novel Pentacyclic Scaffold by Direct Anodic Oxidation of 2,4-Dimethylphenol

Keywords: Electrochemistry / C–C coupling / Oxidation / Polycycles / Phenols / Spiro compounds

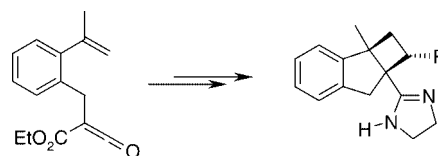


246 B. Bonnaud, N. Mariet, B. Vacher*



Preparation of Conformationally Constrained α_2 -Antagonists: The Bicyclo[3.2.0]heptane Approach

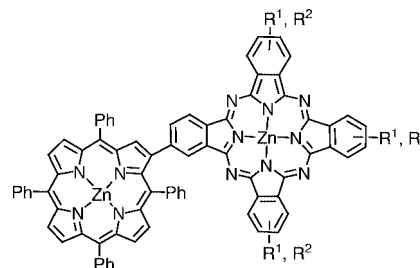
Keywords: Adrenergic antagonists / Cycloaddition / Cyclobutanes / Fused-ring systems / Strained molecules



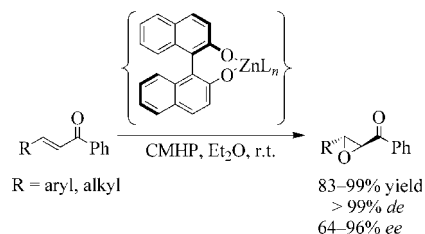
**257 J. P. C. Tomé, A. V. M. Pereira,
C. M. A. Alonso, M. M. S. Neves,
A. C. Tomé, A. M. S. Silva,
J. A. S. Cavaleiro,* M. V. Martínez-Díaz,
T. Torres,* G. M. A. Rahman, J. Ramey,
D. M. Guldi***

Synthesis and Photophysical Studies of New Porphyrin–Phthalocyanine Dyads with Hindered Rotation

Keywords: Covalent dyads / Harvesting systems / Photoinduced energy transfer / Phthalocyanines / Porphyrins



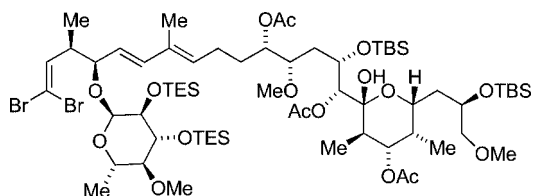
Enantioselective Epoxidation of α,β -Enones by Electrophilic Activation with a BINOL–Zinc Catalyst



Keywords: Asymmetric catalysis / Enantioselectivity / Enones / Epoxidation / Zinc

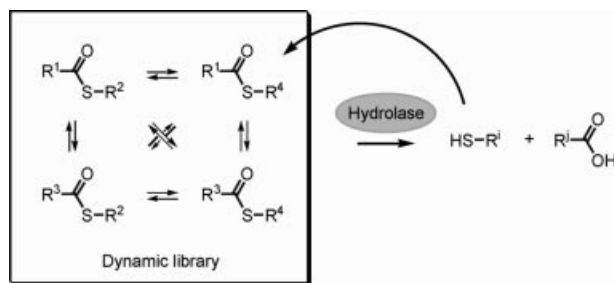


Studies on the Synthesis of Apoptolidin: Progress on the Stereocontrolled Assembly of the Pseudo Aglycone of Apoptolidin



Keywords: Natural products / Aldol reaction / Cross-coupling / Glycosylation / Diastereoselectivity

Dynamic Combinatorial Thiolester Libraries for Efficient Catalytic Self-Screening of Hydrolase Substrates



Keywords: Combinatorial chemistry / Enzyme catalysis / Hydrolysis / Transesterification



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