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COVER PICTURE

The cover picture symbolizes light that sustains life and the continuous evolution intimately connected to the critical role of vitamin D and its biomolecular receptor. It demonstrates the ability of mankind to supplement this evolutionary process by their inventions that contribute to health and well-being. Details are discussed in the article by H. Maehr and M. R. Uskokovic on p. 1703 ff.



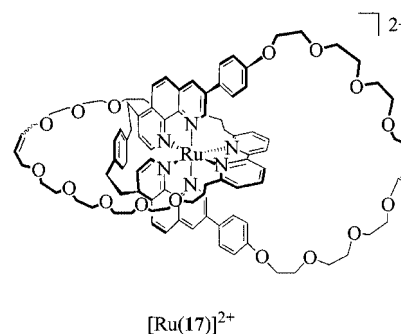
MICROREVIEWS

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- 1627** J.-C. Chambron, J.-P. Collin, V. Heitz,
 D. Jouvenot, J.-M. Kern, P. Mobian,
 D. Pomeranc, J.-P. Sauvage*

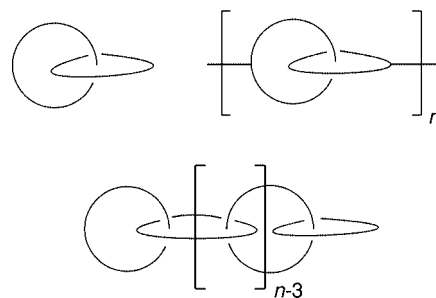
Rotaxanes and Catenanes Built Around Octa-
 hedral Transition Metals

Keywords: Rotaxanes / Catenanes / Ruthenium /
 Transition metals



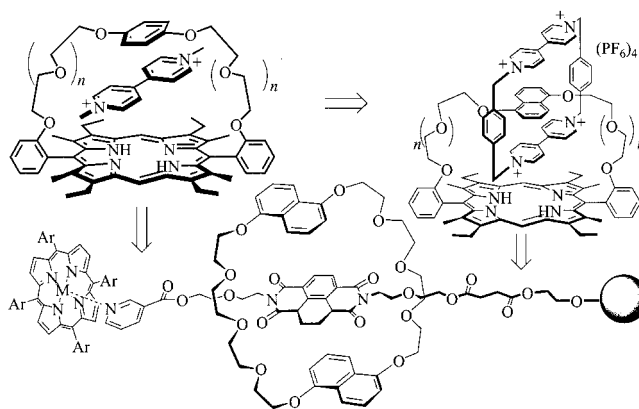
Non-Rusty [2]Catenanes with Huge Rings and Their Polymers

Keywords: Catenanes / Conformational analysis / Ring fusion / Supramolecular chemistry



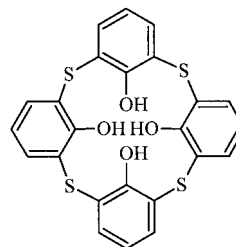
Superstructured Porphyrins as Effectors in Dynamic Supramolecular Assemblies: Receptors, Rotaxanes and Catenanes

Keywords: Porphyrins / Receptors / Catenanes / Rotaxanes / Bipyridinium



Chemistry of Thiacalixarenes

Keywords: Thiacalixarenes / Supramolecular chemistry / Stereochemistry / X-ray diffraction

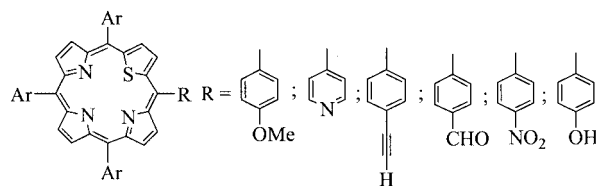


SHORT COMMUNICATIONS



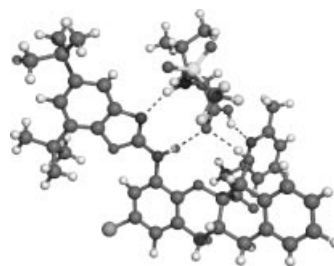
Novel and Rapid Synthetic Routes to A₃B- and AB₃-Type 21-Thiaporphyrins and Their Use in the Construction of Unsymmetrical Covalent and Non-Covalent Porphyrin Arrays

Keywords: Porphyrins / Synthesis design / Macrocycles / Sulfur



Enantioselective Lutidine-Tetrahydrobenzoxan-thene Receptors for Carboxylic Acids

Keywords: Amino acids / Molecular recognition / Receptors / Enantioselectivity



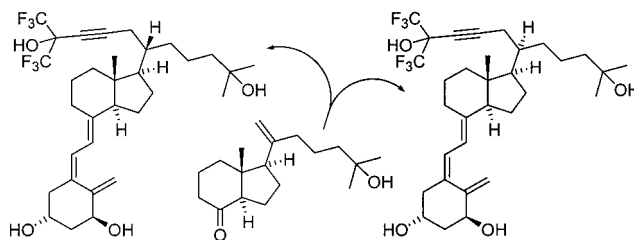
FULL PAPERS

1703 H. Maehr,* M. R. Uskokovic



Formal Desymmetrization of the Diastereotopic Chains in Gemini Calcitriol Derivatives with Two Different Side Chains at C-20

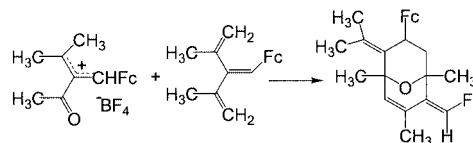
Keywords: Alkylation / Hydroboration / Diastereoselectivity / Ene reaction



1714 E. I. Klimova, T. Klimova,*
J. M. M. Stivalez, C. A. Toledano,
R. A. Toscano, S. H. Ortega, L. R. Ramírez,
L. V. Bakinovskiy, M. M. García

Synthesis and Some Chemical Transformations of (*Z*)- and (*E*)-2-Acetyl-1-ferrocenyl-3-methylbuta-1,3-dienes – A New Type of Cationic Cycloaddition

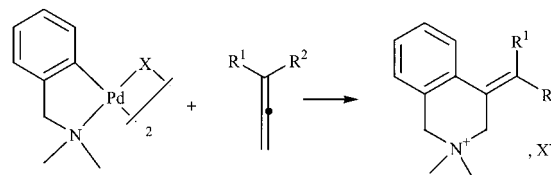
Keywords: Cycloaddition / Cyclodimerization / Dimerization / Ferrocene



1724 C. Sirlin,* J. Chengebroyen, R. Konrath,
G. Ebeling, I. Raad, J. Dupont,
M. Paschaki, F. Kotzyba-Hibert,
C. Harf-Montail, M. Pfeffer*

Molecular Library Obtained by Allene Insertion into the Pd–C Bond of Cyclopalladated Complexes: Biological and Pharmacological Evaluation

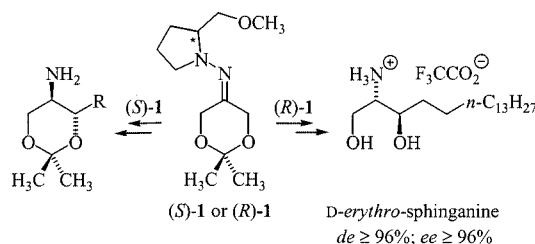
Keywords: Allenes / Antibiotics / N-heterocycles / Nicotinic receptor / Palladium



1732 D. Enders,* A. Müller-Hüwen

Asymmetric Synthesis of 2-Amino-1,3-diols and *D*-erythro-Sphinganine

Keywords: Asymmetric synthesis / Hydrazones / Alkylation / Amino alcohols / Natural products



1740 N. Huther, P. T. McGrail, A. F. Parsons*

Radical Reactions Using Decacarbonyldimanganese under Biphasic Conditions

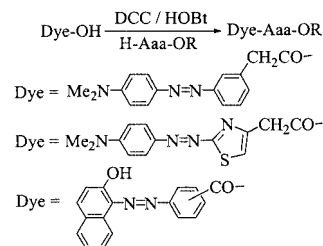
Keywords: Cyclization / Manganese / Heterocycles / Phase-transfer catalysis / Radical reactions



1750 S. M. B. Fraga, M. S. T. Gonçalves,*
J. C. V. P. Moura, K. Rani

Chromophoric Azo Reagents for Amino Acid and Peptide Labelling

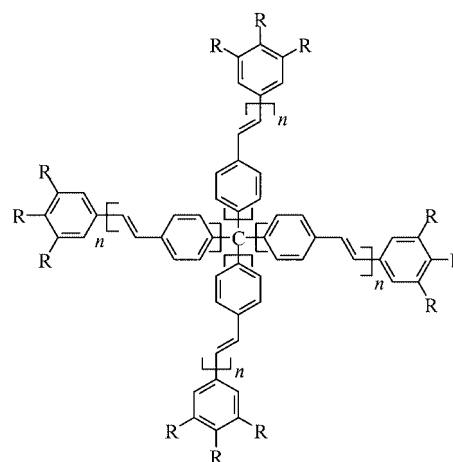
Keywords: Amino acids / Azo dyes / Non-fluorescence / Peptides



1761 S. Kim, P. Seus, H. Meier*

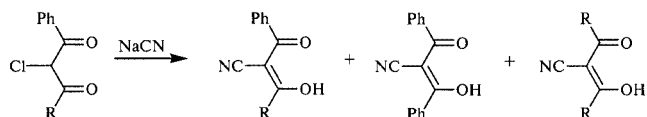
Synthesis of Tetrastilbenylmethanes by Wittig–Horner Reactions

Keywords: Photocrosslinking / Stilbenes / UV/Vis spectroscopy / Wittig–Horner reactions / Chromophores



1765 G. I. Roshchupkina, Y. V. Gatilov,
T. V. Rybalova, V. A. Reznikov*

Reactions of 1,3-Diaryl-2-chloropropane-1,3-diones with Nucleophiles – Cyanide-Induced Retro-Claisen–Claisen Condensation



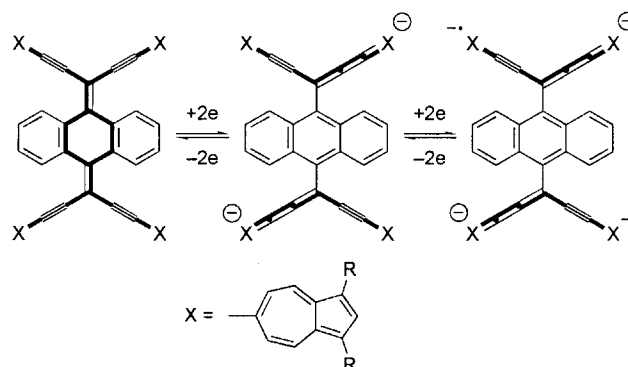
Keywords: Diaroylmethanes / Enaminones / Ketones / Nucleophilic substitution / Retro-Claisen–Claisen condensation

1774 S. Ito,* H. Inabe, N. Morita, A. Tajiri



Electrochromic Application of an Eneidyne Scaffolding as a Redox-Active Chromophore – Synthesis and Redox Behavior of 9,10-Bis[3-(6-azulenyl)-1-(6-azulenylethynyl)-2-propynylidene]-9,10-dihydroanthracenes

Keywords: Enynes / Cyanines / Cross-coupling / Electrochemistry / Cyclic voltammetry

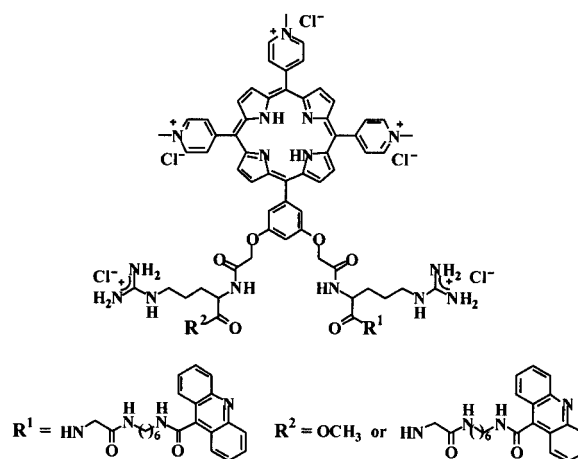


1781 S. Far, A. Kossanyi, C. Verchère-Béaur,
N. Gresh, E. Taillandier, M. Perrée-Fauvet*



Bis- and Tris-DNA Intercalating Porphyrins Designed to Target the Major Groove: Synthesis of Acridylbis-arginy-porphyrins, Molecular Modelling of Their DNA Complexes, and Experimental Tests

Keywords: Cationic porphyrins / Molecular modelling / DNA intercalation / DNA recognition / Topoisomerase I

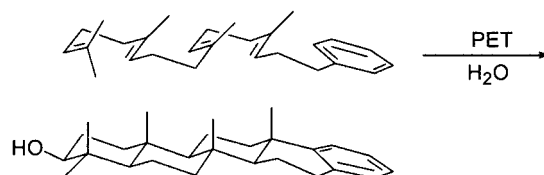


1798 V. Rosales, J. Zambrano, M. Demuth*



Straightforward Synthesis of Aromatic Polycyclic Terpenoids through Biomimetic Cascade Cyclizations Triggered by Photochemical Electron Transfer

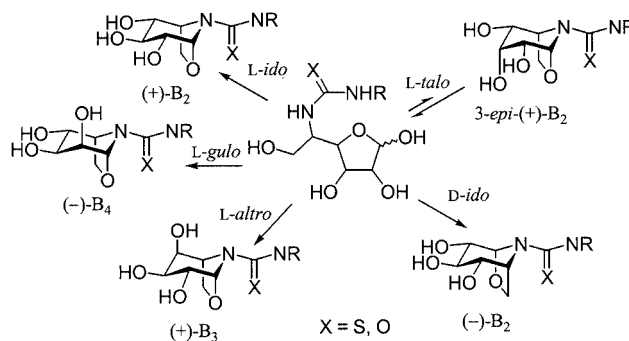
Keywords: Biomimetic cascade cyclizations / Biomimetic synthesis / Natural products / Photochemical electron transfer / Terpenoids



1803 M. I. García-Moreno, C. Ortiz Mellet,*
J. M. García Fernández*

Synthesis of Calystegine B₂, B₃, and B₄ Analogues: Mapping the Structure-Glycosidase Inhibitory Activity Relationships in the 1-Deoxy-6-oxacalystegine Series

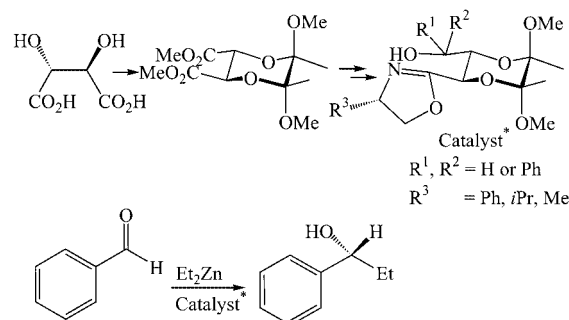
Keywords: Azasugars / Calystegines / Carbohydrates / Glycosidases / Imino sugars



1820 M. T. Barros*, C. D. Maycock,
A. M. Faisca Phillips

Novel Cyclic 1,2-Diacetals Derived from (2*R*,3*R*)-(+)-Tartaric Acid: Synthesis and Application as N,O Ligands for the Enantioselective Alkylation of Benzaldehyde by Diethylzinc

Keywords: Alkylation / Asymmetric catalysis / Diacetals / Zinc / N,O ligands



A Stereodivergent Approach to 5a-Carba- α -D-gluco-, - α -D-galacto and - β -L-gulopyranose Pentaacetates from D-Mannose, Based on 6-*exo-dig* Radical Cyclization and Barton–McCombie Radical Deoxygenation

Keywords: Carbohydrates / Radical cyclization / Radical deoxygenation / Synthesis design / D-Mannose

