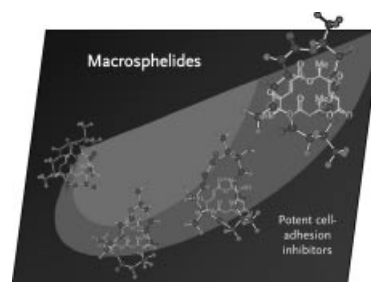


COVER PICTURE

The cover picture shows the structures of the bioactive natural macrolide, macrosphelide A (third structure from left) and its artificial analogues. The other structures exhibit different oxidation states at the allylic positions on the common 16-membered ring skeleton. The antitumor activity increases from left to right. This image reflects the importance of the oxygen functionalities for the bioactivity of naturally occurring macrosphelides, as discussed in the article by H. Nemoto et al. on p. 3973 ff.

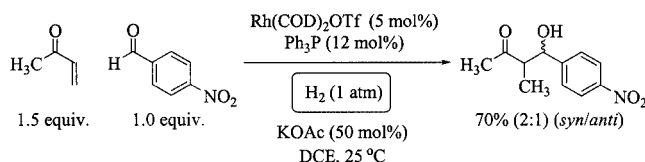


MICROREVIEW

Contents

3953 H.-Y. Jang, M. J. Krische*

Catalytic Hydrogen-Mediated Cross-Coupling of Enones and Carbonyl Compounds: Aldol Condensation by Hydrogenation



Keywords: Hydrogenation / Rhodium catalysis / Aldol reaction / Cross-coupling / Transition metal enolate

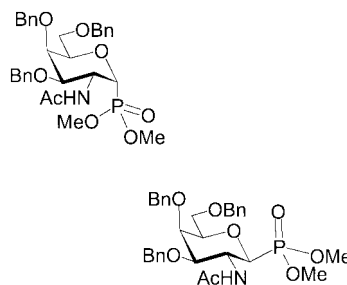
SHORT COMMUNICATIONS

- 3959** K. Pachamuthu, I. Figueroa-Perez,
I. A. I. Ali, R. R. Schmidt*



Synthesis of Glycosyl Phosphonates by Michael-Type Addition to 2-Nitroglycals

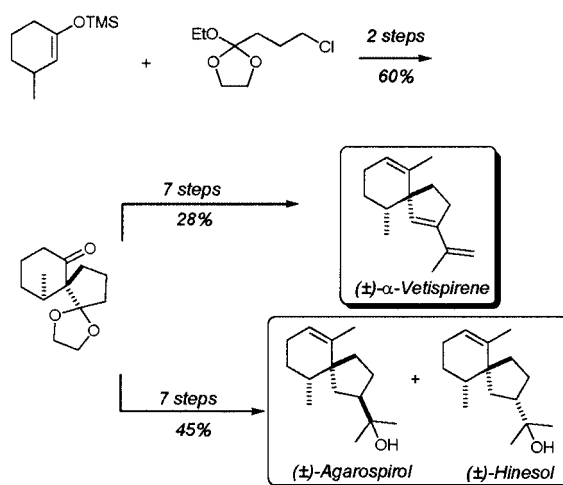
Keywords: Carbohydrates / Nitroglycals / Michael addition / Phosphonates / Anomerisation



- 3962** N. Maulide, J.-C. Vanherck, I. E. Markó*

Connective Synthesis of Spirovetivanes: Total Synthesis of (+)-Agarospirol, (+)-Hinesol and (+)- α -Vetispirene

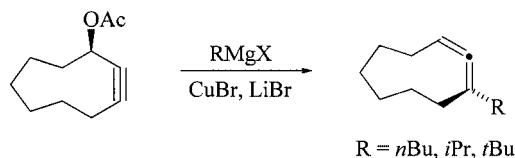
Keywords: Spiro compounds / Total synthesis / Spiroannulation / Orthoesters / Diastereocontrol



- 3968** C. Zelder, N. Krause*

Enantioselective Synthesis and Circular Dichroism of Endocyclic Allenes

Keywords: Allenes / Chirality / Circular dichroism / Kinetic resolution



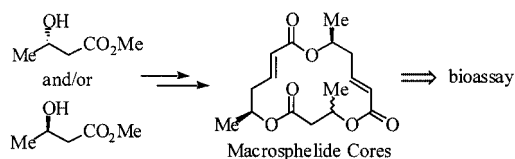
FULL PAPERS

- 3973** K. Ishihara, T. Kawaguchi, Y. Matsuya,
H. Sakurai, I. Saiki, H. Nemoto*



Synthesis and Biological Evaluation of Macrophelide Cores

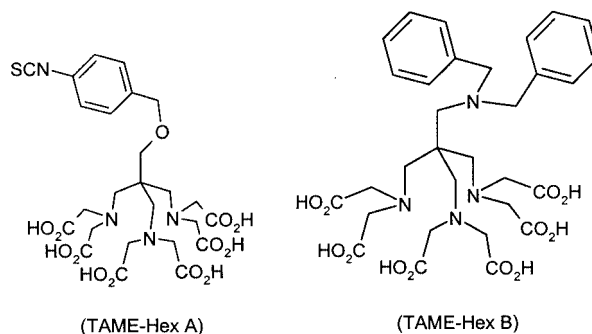
Keywords: Macrocycles / Cyclization / Natural products / Cell adhesion / Antitumor agents



3979 E. Arslantas, P. M. Smith-Jones, G. Ritter, R. R. Schmidt*

TAME-Hex A – A Novel Bifunctional Chelating Agent for Radioimmunoimaging

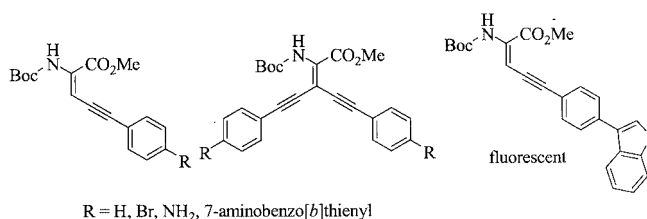
Keywords: Chelating agents / Radioimmunoimaging / Positron emission tomography / Gallium chelate / TAME derivative



3985 A. S. Abreu, P. M. T. Ferreira, M.-J. R. P. Queiroz,* E. Gatto, M. Venanzi

Sonogashira Cross-Couplings of Dehydroamino Acid Derivatives and Phenylacetylenes

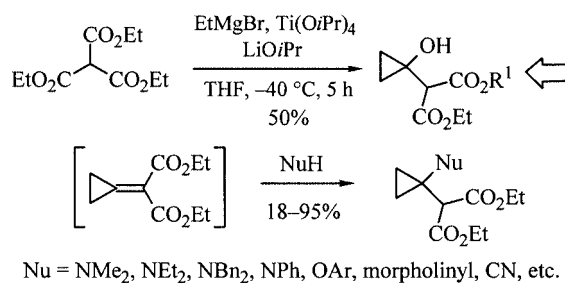
Keywords: Amino acids / Phenylacetylenes / Sonogashira coupling / Palladium / Benzo[*b*]thiophenes / Fluorescence



3992 A. de Meijere,* R. R. Kostikov, A. I. Savchenko, S. I. Kozhushkov

Diethyl Cyclopropylidenemalonate: Facile Preparation, Generation in situ, and Various Transformations

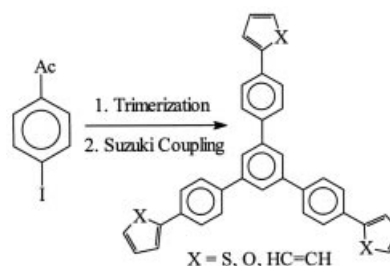
Keywords: Alkenes / Cyclopropanols / Cycloadditions / Elimination / Michael addition / Reductive cyclopropanation / Titanium



4003 S. Kotha,* D. Kashinath, K. Lahiri, R. B. Sunoj

Synthesis of C₃-Symmetric Nano-Sized Polyaromatic Compounds by Trimerization and Suzuki–Miyaura Cross-Coupling Reactions

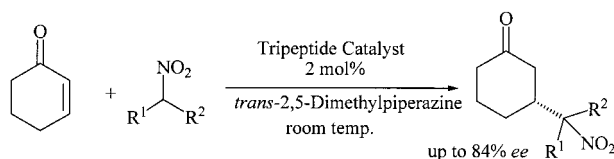
Keywords: C–C coupling / Cyclotrimerizations / Nanostructures / Polycycles / Semiempirical calculations



4014 S. B. Tsogoeva,* S. B. Jagtap, Z. A. Ardemasova, V. N. Kalikhevich

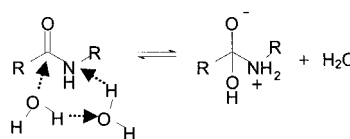
Trends in Asymmetric Michael Reactions Catalysed by Tripeptides in Combination with an Achiral Additive in Different Solvents

Keywords: Asymmetric catalysis / Michael addition / Organocatalyst / Peptides



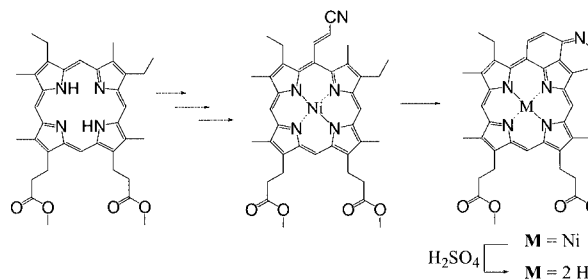
4020 D. Zahn

On the Role of Water in Amide Hydrolysis

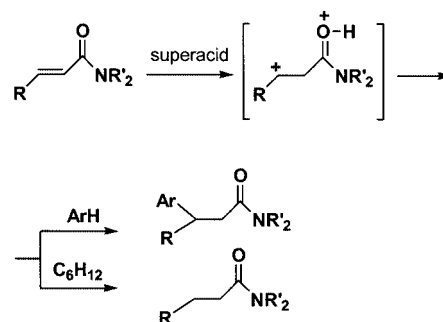
Keywords: Amino acids / Catalysis / Molecular dynamics / Proton transport

4024 R. N. S. van der Haas, R. L. P. de Jong, M. Noushazar, K. Erkelens, T. G. M. Smijs, Y. Liu, P. Gast, H. J. Schuitmaker, J. Lugtenburg*

The Synthesis of the Dimethyl Ester of Quino-[4,4a,5,6-*efg*]-Annulated 7-Demethyl-8-deethylmesoporphyrin and Three of Its Isomers with Unprecedented *peri*-Condensed Quinoline Porphyrin Structures. Molecules with Outstanding Properties as Sensitizers for Photodynamic Therapy in the Far-Red Region of the Visible Spectrum

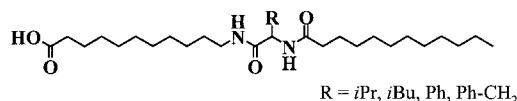
**Keywords:** Quino-annulated porphyrins / Nickel complexes / Singlet oxygen / Photodynamic therapy

4039 K. Y. Koltunov,* S. Walspuger, J. Sommer

Superacidic Activation of α,β -Unsaturated Amides and Their Electrophilic Reactions**Keywords:** Electrophilic reactions / Superacids / Super-electrophilic activation

4048 V. Čaplar, M. Žinić,* J.-L. Pozzo, F. Fages, G. Mieden-Gundert, F. Vögtle

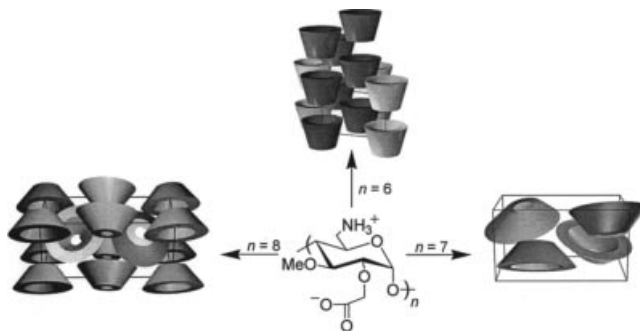
Chiral Gelators Constructed from 11-Aminoundecanoic (AUDA), Lauric and Amino Acid Units. Synthesis, Gelling Properties and Preferred Gelation of Racemates vs. the Pure Enantiomers

**Keywords:** Amino acids / Enantiomers / Fatty acids / Gelation / Racemates / Self-assembly

4060 T. Kraus,* M. Buděšínský, I. Císařová,
J. Závada

A Homologous Series of Persubstituted Cyclodextrin Amino Acids: The Quest for Tubular Self-Assembly

Keywords: Amino acids / Crystal engineering / Cyclodextrins / Microporous materials / Nanotubes

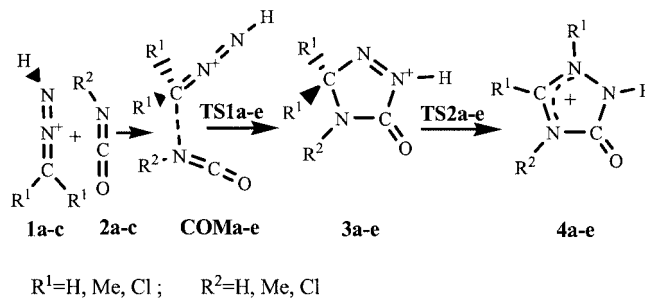


4070 M.-J. Wei, D.-C. Fang,* R.-Z. Liu



Theoretical Studies on Cycloaddition Reactions between 1-Aza-2-azoniaallene Cations and Isocyanates

Keywords: 1-Aza-2-azoniaallene cations / [3+2] Cycloaddition / Isocyanates / Reaction mechanisms



4077 R. Gleiter,* J. H. Schulte, D. B. Werz

Synergetic Effects of Oxidative and Coordinative Promoters to Increase the Yield of a Twofold Pauson–Khand Reaction

Keywords: Alkynes / Chalcogens / Cobalt / Pauson–Khand reaction

