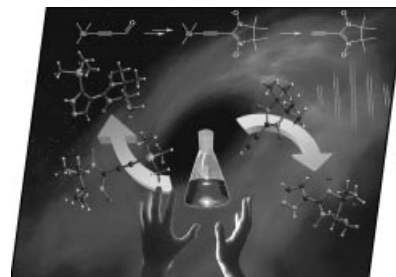


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COVER PICTURE

The cover picture shows the synthesis of acetylenyl-substituted nitronyl nitroxides, which affords single crystals under mild conditions, whose structure was studied by direct X-ray analysis. Spin-labeled acetylenes, now accessible to experimenters, have added all the power of alkyne chemistry to nitroxide chemistry. This was first demonstrated in the 1,3-dipolar cycloaddition reaction, which afforded the corresponding pyrazoles. The flask with a solution of a spin-labeled nitroxide reflects the kinetic stability of these compounds over prolonged periods of time in solution and the ensuing efficiency of the one-pot synthesis strategy in obtaining the desired derivatives. Details are discussed in the article by V. Ovcharenko et al. on p. 2695 ff.



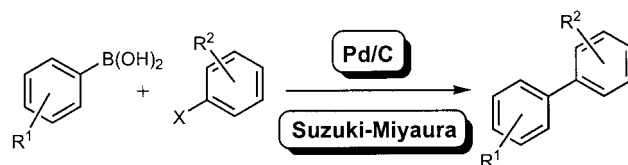
MICROREVIEW

Contents

2679 F.-X. Felpin,* T. Ayad, S. Mitra

Pd/C: An Old Catalyst for New Applications –
 Its Use for the Suzuki–Miyaura Reaction

Keywords: C–C coupling / Green chemistry / Heterogeneous catalysis / Palladium / Supported catalysts

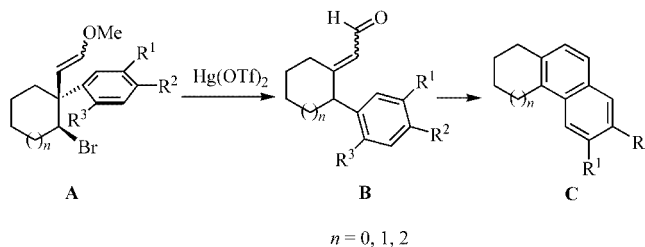


SHORT COMMUNICATION

- 2691** A.-X. Wang, Y.-Q. Tu,* Z.-L. Song,
D.-Y. Yuan, X.-D. Hu, S.-H. Wang,
S.-H. Gao



Synthetically Useful Wagner–Meerwein Rearrangement of α -Quaternary β -Bromovinyl Methyl Ethers



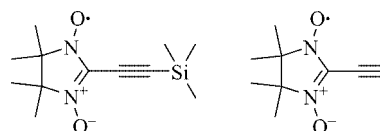
Keywords: Lewis acids / Tricyclic systems / Unsaturated aldehydes / Vinyl methyl ethers / Wagner–Meerwein rearrangement

FULL PAPERS

- 2695** E. Tretyakov, G. Romanenko, A. Podoplelov,
V. Ovcharenko*



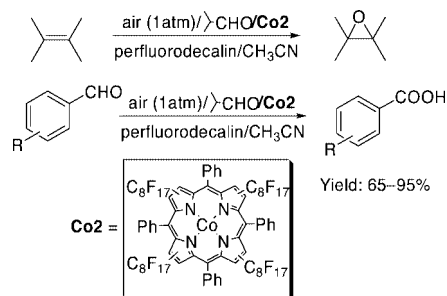
Synthesis of Alkynyl-Substituted Nitronyl Nitroxides through an Organosilicon Derivative



Keywords: Alkynes / Diazo compounds / Cycloaddition / Nitrogen heterocycles / Radicals

- 2703** C. Liu, D.-M. Shen, Q.-Y. Chen*

Fluorous Biphasic Catalytic Oxidation of Alkenes and Aldehydes with Air and 2-Methylpropanal in the Presence of (β -Perfluoroalkylated tetraphenylporphyrin)cobalt Complexes

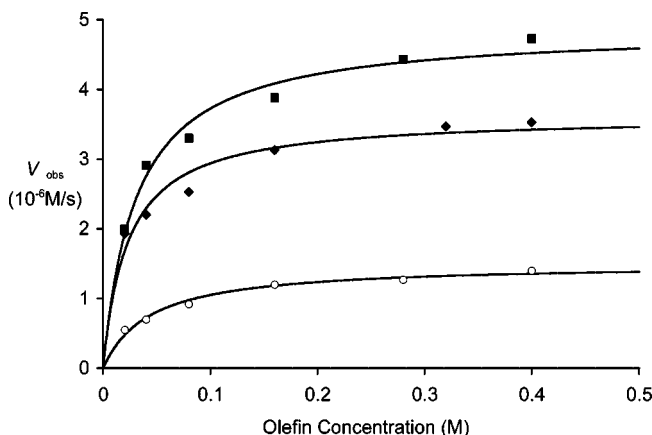


Keywords: Biphasic catalysis / Cobalt / Fluorinated ligands / Oxidation / Porphyrinoids

- 2707** J. P. Collman,* L. Zeng, H. J. H. Wang,
A. Lei, J. I. Brauman



Kinetics of (Porphyrin)manganese(III)-Catalyzed Olefin Epoxidation with a Soluble Iodosylbenzene Derivative

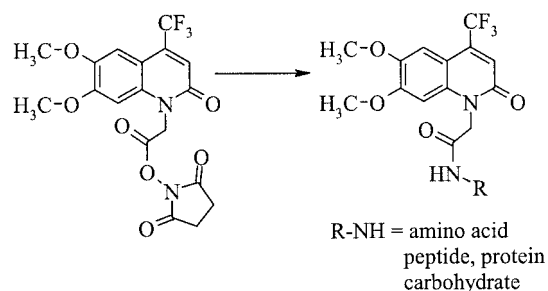


Keywords: Kinetics / Homogeneous catalysis / Supported catalysis / Epoxidation

2715 N. S. Badgujar, M. Pazicky, P. Traar,
A. Terec, G. Uray, W. Stadlbauer*

N-Carboxymethylated 6,7-Dimethoxy-4-trifluoromethylcarbostyrils as Fluorescence Markers for Amino Acids, Peptides, Amino Carbohydrates and Amino Polysaccharides

Keywords: Fluorescent probes / Photoaffinity labeling / Amino acids / Peptides / Carbohydrates

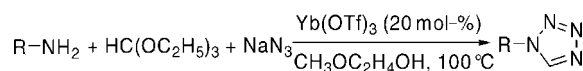


2723 W. K. Su,* Z. Hong, W. G. Shan,
X. X. Zhang



A Facile Synthesis of 1-Substituted-1*H*-1,2,3,4-Tetrazoles Catalyzed by Ytterbium Triflate Hydrate

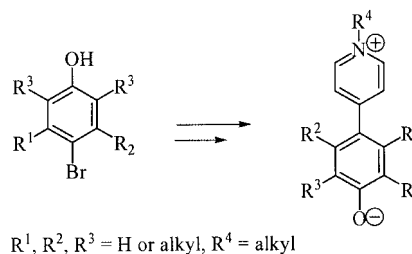
Keywords: Lanthanides / Catalyst / Tetrazoles / Cyclization



2727 V. Diemer, H. Chaumeil,* A. Defoin,
A. Fort, A. Boeglin, C. Carré

Syntheses of Sterically Hindered Pyridinium Phenoxides as Model Compounds in Nonlinear Optics

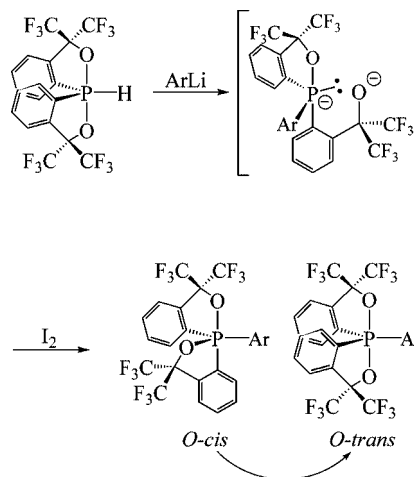
Keywords: Donor–acceptor systems / Zwitterions / Nonlinear Optics / Suzuki cross-coupling / Chromophores



2739 K. Kajiyama, M. Yoshimune, S. Kojima,
K.-y. Akiba*

A New Method for the Formation of Anti-apicophilic (*O*-*cis*) Spirophosphoranes – Kinetic Studies on the Stereomutation of *O*-*cis* Arylspirophosphoranes to Their *O*-*trans* Isomers

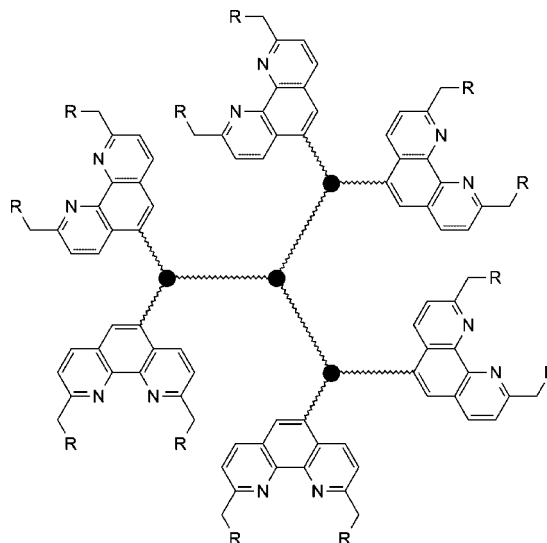
Keywords: Anti-apicophilicity / Oxidation / Kinetics / Arylspirophosphorane / Pseudorotation



2747 U. Lüning,* J. P. W. Eggert, K. Hagemann

A Second-Generation Dendrimer with Six 2,9-Dimethyl-1,10-phenanthroline Units as Ligand for Copper-Catalyzed Reaction

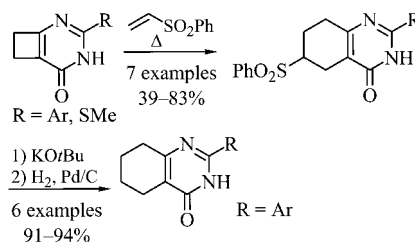
Keywords: Catalysis / Dendrimer / Homogeneous catalysis / Sonogashira / Supramolecular Chemistry



2753 S. Dalai, V. N. Belov, S. Nizamov, K. Rauch, D. Finsinger, A. de Meijere*

Access to Various Substituted 5,6,7,8-Tetrahydro-3H-quinazolin-4-ones via Diels–Alder Adducts of Phenyl Vinyl Sulfone to Cyclobutene-Annulated Pyrimidinones

Keywords: Nitrogen heterocycles / Michael addition / Cycloaddition / 5,6,7,8-Tetrahydro-3H-quinazolin-4-ones

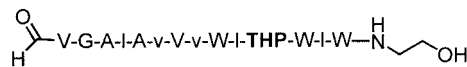
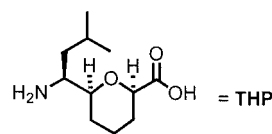


2766 S. Schröder, A. K. Schrey, A. Knoll, P. Reiß, B. Ziemer, U. Koert*



Tetrahydropyran-Amino Acids: Novel Building Blocks for Gramicidin-Hybrid Ion Channels

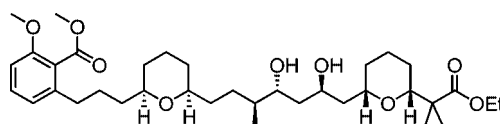
Keywords: THP amino acid / Stereoselective synthesis / Peptide / Gramicidin A / Ion channel



2777 J. R. Backes, U. Koert*

Stereoselective Synthesis of the Monomeric Unit of SCH 351448

Keywords: Stereoselective synthesis / Natural product / SCH 351448 / Tetrahydropyran

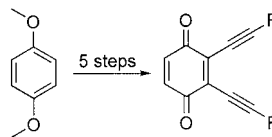


- 2786** P. Hammershøj, T. K. Reenberg,
M. Pittelkow, C. B. Nielsen, O. Hammerich,
J. B. Christensen*



Synthesis and Properties of 2,3-Dialkynyl-1,4-benzoquinones

Keywords: Benzoquinones / Acetylenes / Sonogashira cross-coupling / Cyclic voltammetry / UV/Vis / DFT calculations

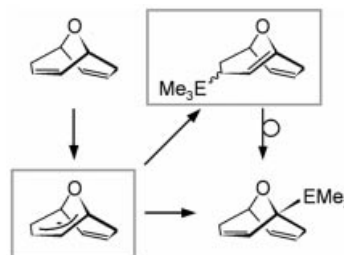


- 2795** G. Bassioni, F. H. Köhler*



Metalation of 9-Oxabicyclo[3.3.1]nonadiene – the Deprotonation Path to Bridgehead Olefins

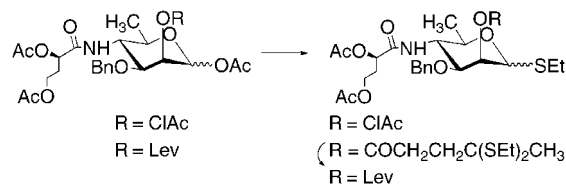
Keywords: Metalation / Bridgehead olefin / Bridgehead allyl anion / Zero-order kinetics / Stannanes



- 2803** R. Adamo, P. Kováč*

Formation of Ethyl 1-Thiomannopyranosides from 2-*O*-Chloroacetylated and 2-*O*-Levulinoylated Synthons

Keywords: Carbohydrates / Synthetic methods / Thio-glycosides / Levulinoyl protecting group / Glycosylation

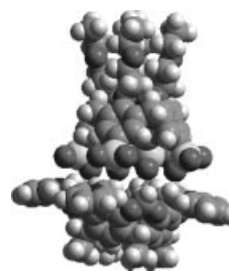


- 2810** G. V. Oshovsky, D. N. Reinhoudt,
W. Verboom*



The Underestimated Role of Counter Ions in Electrostatic Self-Assembly: [1+1] Cavitand-Calix[4]arene Capsules Based on Azinium-Sulfonate Interactions

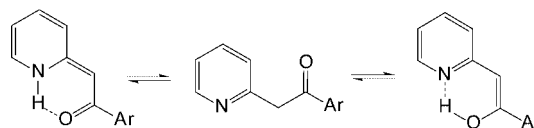
Keywords: Capsules / Ion-pairs / Polar protic media / Self-assembly / Supramolecular chemistry



- 2817** R. Gawinecki,* E. Kolehmainen,
H. Loghmani-Khouzani, B. Ośmiałowski,
T. Lovász, P. Rosa

Effect of π -Electron Delocalization on Tautomeric Equilibria – Benzoannulated 2-Phenacylpyridines

Keywords: Nitrogen heterocycles / Annulation / Aromaticity / Substituent effect / Tautomerism / Ketimine / Enolimine / Enaminone / Hydrogen bond

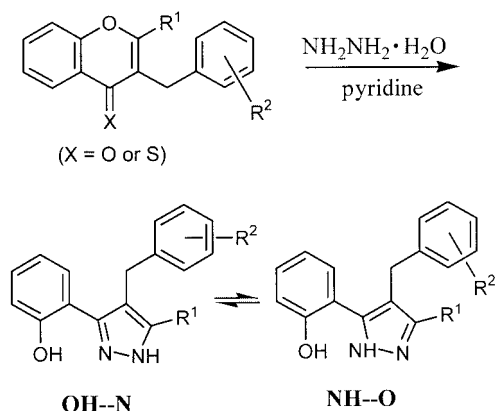


2825

A. Lévai,* A. M. S. Silva,*
J. A. S. Cavaleiro, I. Alkorta, J. Elguero,
J. Jekő

Synthesis of Pyrazoles by Treatment of 3-Benzylchromones, 3-Benzylflavones and Their 4-Thio Analogues with Hydrazine

Keywords: 3-Benzylchromones / 3-Benzylflavones / Hydrazine / Pyrazoles



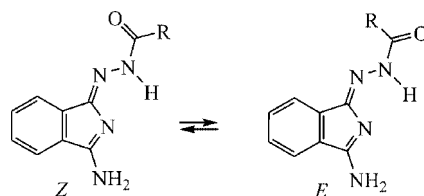
2833

O. V. Hordiyenko,* A. V. Biitseva,
M. Y. Kornilov, N. Brosse, A. Hocquet,
B. Jamart-Grégoire, O. V. Shishkin,
R. I. Zubatyuk



N'-(3-Amino-1*H*-isoindol-1-ylidene)-*R*-carbohydrazides and Their Amide-Type Isomerism

Keywords: Nitrogen heterocycles / Hydrazones / NMR spectroscopy / X-ray diffraction / Structure elucidation / Quantum calculations

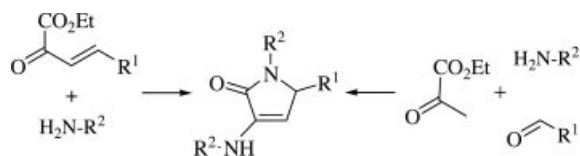


2843

F. Palacios,* J. Vicario, D. Aparicio

An Efficient Synthesis of Achiral and Chiral Cyclic Dehydro- α -Amino Acid Derivatives Through Nucleophilic Addition of Amines to β,γ -Unsaturated α -Keto Esters

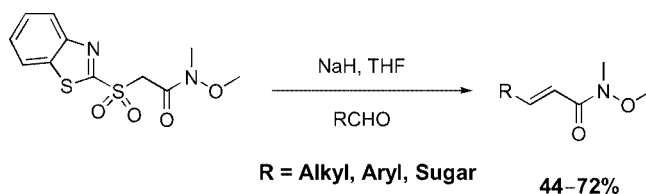
Keywords: Dehydro-amino acids / Unsaturated keto esters / Cyclization / Enamines / Nucleophilic addition / Amines



2851

B. N. Manjunath, N. P. Sane, I. S. Aidhen*

New Reagent for Convenient Access to the α,β -Unsaturated *N*-Methoxy-*N*-methyl-amide Functionality by a Synthesis Based on the Julia Olefination Protocol



Keywords: Julia olefination / Weinreb amides / Heterocycles / Sulfones

CORRECTIONS

2857 **A. Hartikka, P. I. Arvidsson***

5-(Pyrrolidine-2-yl)tetrazole: Rationale for the Increased Reactivity of the Tetrazole Analogue of Proline in Organocatalyzed Aldol Reactions

Keywords: Organocatalysis / Tetrazole / Aldol reactions / Asymmetric catalysis / Computational chemistry

2858 **E. Alcalde,* I. Dinarès,* S. Rodríguez, C. Garcia de Miguel**

Synthetic Approaches to Sterically Hindered *N*-Arylimidazoles through Copper-Catalyzed Coupling Reactions

Keywords: Arylation / Benzimidazole / Imidazole / *N*-Heterocyclic carbenes / Ullmann-type condensation

