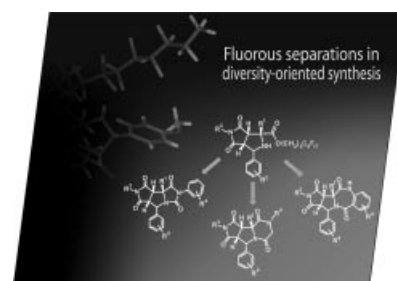


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COVER PICTURE

The cover picture shows a range of molecular scaffolds that can be achieved through fluorous enhanced diversity-oriented synthesis. Construction of the ring skeletons is accomplished by multicomponent reactions followed by post-condensation modifications. The reactions are accelerated by microwave irradiation, and purifications are facilitated by fluorous separation. This new solution-phase synthetic technique is presented in the Short Communication by W. Zhang et al. on p. 2055 ff.



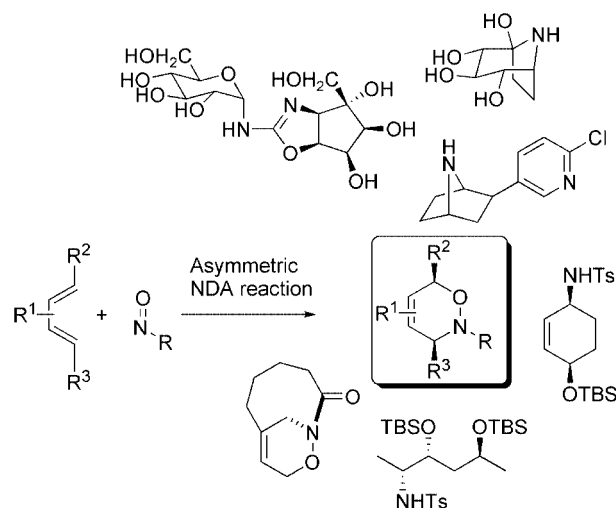
MICROREVIEWS

Contents

2031 Y. Yamamoto, H. Yamamoto*

Recent Advances in Asymmetric Nitroso Diels–Alder Reactions

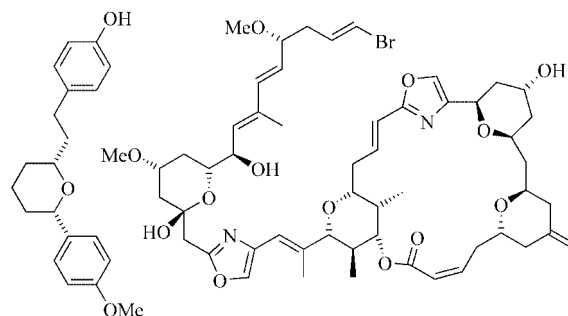
Keywords: Nitroso compounds / Diels–Alder reactions / Asymmetric catalysis / Amino alcohols / Natural product synthesis



2045 P. A. Clarke,* S. Santos

Strategies for the Formation of Tetrahydropyran Rings in the Synthesis of Natural Products

Keywords: Tetrahydropyran / Total synthesis / Natural products



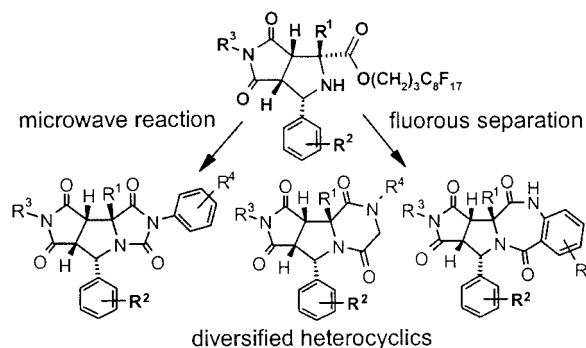
SHORT COMMUNICATIONS

2055 W. Zhang,* Y. Lu, C. H.-T. Chen,
D. P. Curran, S. Geib



Fluorous Synthesis of Hydantoin-, Piperazine-
dione-, and Benzodiazepinedione-Fused Tri-
cyclic and Tetracyclic Ring Systems

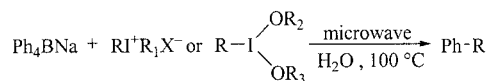
Keywords: Fluorous synthesis / Microwave reaction /
Solid-phase extraction / Cycloaddition /
Diversity-oriented synthesis



2060 J. Yan,* M. Zhu, Z. Zhou

Rapid Microwave-Promoted Catalyst- and Base-
Free Suzuki-Type Coupling Reaction in Water

Keywords: Suzuki-type reaction / Sodium tetraphenyl-
borate / Iodonium salt / Iodane / Micro-
wave irradiation

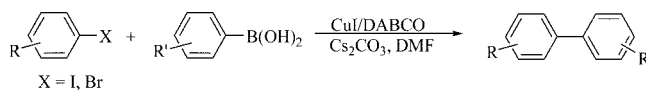


2063 J.-H. Li,* D.-P. Wang



CuI/DABCO-Catalyzed Cross-Coupling Reac-
tions of Aryl Halides with Arylboronic Acids

Keywords: CuI / DABCO / Suzuki–Miyaura cross-
coupling reaction / Aryl halides / Aryl-
boronic acids



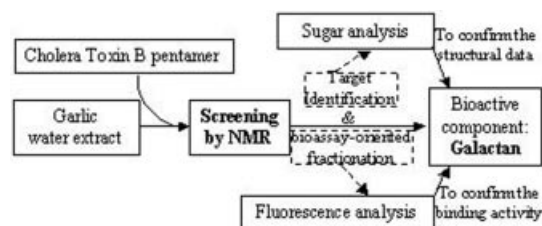
FULL PAPERS

2067 M. Politi, J. Alvaro-Blanco, P. Groves,
A. Prieto, J. A. Leal, F. J. Cañada,
J. Jiménez-Barbero*



Screening of Garlic Water Extract for Binding
Activity with Cholera Toxin B Pentamer by
NMR Spectroscopy – An Old Remedy Giving
a New Surprise

Keywords: Screening / NMR / Medicinal plants / Hot
water extract / *Allium sativum* / Cholera
toxin B pentamer (CTB) / Galactan



2074 J. T. Fischer, U. M. Reinscheid*

^{13}C Chemical Shifts and $^1J_{\text{CH}}$ Coupling Constants of Cytidine at Different χ Dihedrals Based on DFT Calculations

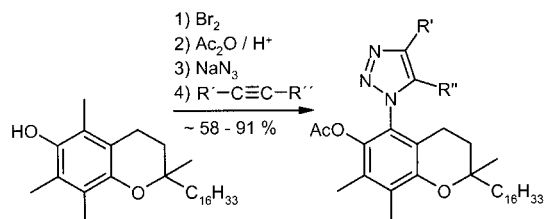
Keywords: ^{13}C chemical shift / 1J coupling constant / Quantum chemistry / Density functional calculations / Conformation analysis / Cytidine



2081 C. Adelwöhrer, T. Rosenau,* E. Kloser, K. Mereiter, T. Netscher

Synthesis of 5a- α -Tocopheryl Azide and Its Reaction to 1-(5a- α -Tocopheryl)-1,2,3-triazols by [2+3]-Cycloaddition

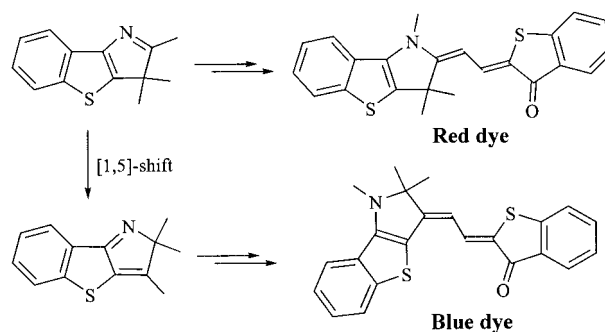
Keywords: 1,2,3-Triazole / Tocopherol / Vitamin E / 1,3-Dipolar cycloaddition / Drug release



2087 A. A. Shimkin, V. Z. Shirinian,* D. M. Nikalin, M. M. Krayushkin, T. S. Pivina, N. A. Troitsky, L. G. Vorontsova, Z. A. Starikova

Isomerization of 3*H*- to 2*H*-[1]Benzothieno[3,2-*b*]pyrroles and Synthesis of the First Merocyanine Dyes Based on Them

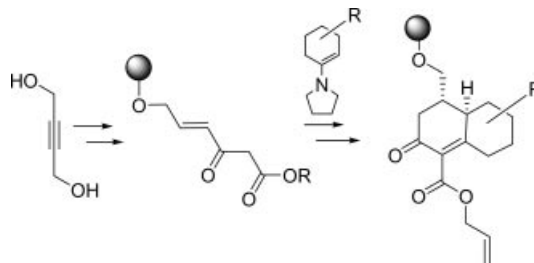
Keywords: Rearrangement / 3*H*-Thieno[3,2-*b*]pyrrole / 2*H*-Thieno[3,2-*b*]pyrrole / Merocyanine dyes / 1-Benzothieno[3,2-*b*]pyrrole / Benzo-thienopyrroleninium salts



2093 S. Röttger, H. Waldmann*

Solid-Phase Synthesis of Decalin Scaffolds by Robinson Annulation with Immobilised Nazarov Reagents

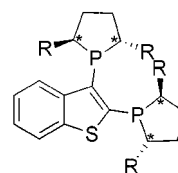
Keywords: Solid-phase synthesis / Decalin / Nazarov reagent / Robinson annulation



2100 U. Berens,* U. Englert, S. Geyser, J. Runsink, A. Salzer*

A Flexible Approach to Different Families of Bidentate P,P Ligands as Highly Efficient Ligands for Asymmetric Catalysis

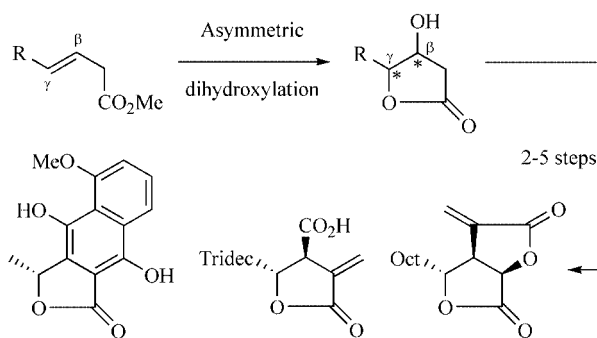
Keywords: Asymmetric catalysis / Benzothiophene / Hydrogenation / Phospholane ligands / Rhodium



2110 S. Braukmüller, R. Brückner*

Enantioselective Butenolide Preparation for Straightforward Asymmetric Syntheses of γ -Lactones – Paraconic Acids, Avenaciolide, and Hydroxylated Eleutherol

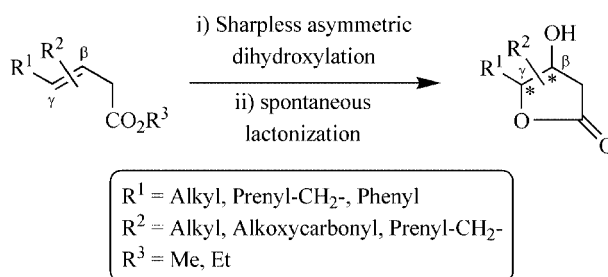
Keywords: Asymmetric dihydroxylation / Butyrolactones / α -Methylene lactones / Naphthalene annulation / Natural product synthesis / β,γ -Unsaturated carboxylic esters



2119 T. Kapferer, R. Brückner*

Asymmetric Dihydroxylation of β,γ -Unsaturated Carboxylic Esters with Trisubstituted C=C Bonds – Enantioselective Syntheses of Trisubstituted γ -Butyrolactones

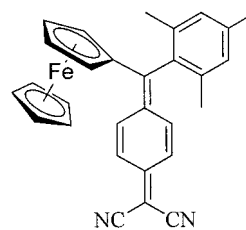
Keywords: Asymmetric dihydroxylation / Butyrolactones / β,γ -Unsaturated carboxylic esters / Stereoselective synthesis / Wolff rearrangement



2134 G. Dyker,* M. Hagel, O. Muth, C. Schirmacher

Sterically Stabilized p -Quinodimethanes by Nucleophilic Aromatic Substitution

Keywords: Carbocations / Extended π systems / Nucleophilic Aromatic Substitution / p -Quinodimethanes

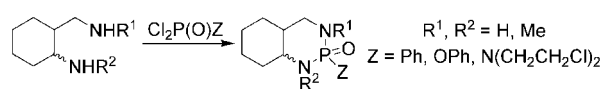


2145 Z. Zalán, H. Kivelä, L. Lázár, F. Fülöp,* K. Pihlaja*



Synthesis and Conformational Analysis of Saturated *cis*- and *trans*-1,3,2-Benzodiazaphosphinine 2-Oxides

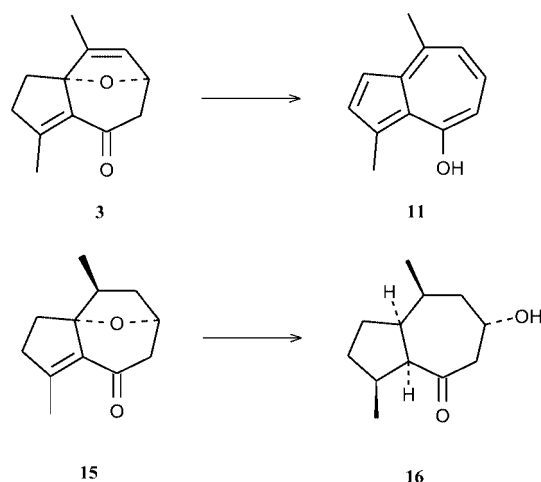
Keywords: Phosphorus heterocycles / Fused-ring systems / Structure elucidation / Configuration determination / Conformation analysis



2160 B. Föhlisch,* R. Flogaus, G. H. Henle,
S. Sendelbach, S. Henkel



Synthetic Approaches to Hydroazulenes and Guaianes through [4 + 3] Cycloadditions of Oxyallyl Intermediates

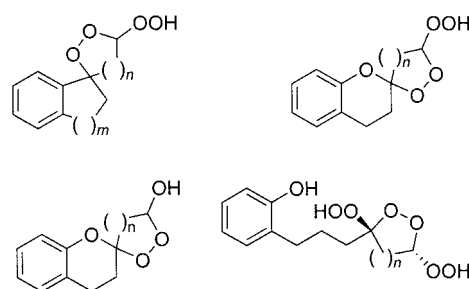


Keywords: Carbocycles / Cleavage reactions / Enones / Heterocycles / Hydrogenation

2174 H.-J. Hamann, A. Wlosnewski, T. Greco,
J. Liebscher*



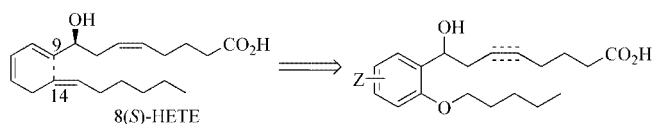
Novel Hydroperoxydioxolanes and -dioxanes by Hydroperoxide Rearrangement and Ozonolysis



Keywords: Hydroperoxides / Peroxides / Rearrangement / Ozonolysis / Dioxanes / Dioxolanes

2181 F. Caijo, P. Mosset,* R. Grée,*
V. Audinot-Bouchez, J. Boutin, P. Renard,
D.-H. Caignard, C. Dacquet

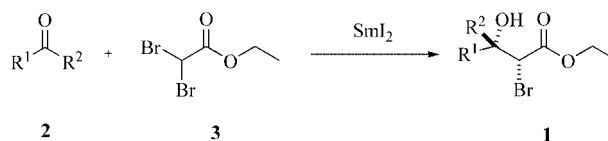
Synthesis of Aromatic Analogs of 8(*S*)-HETE and Their Biological Evaluation as Activators of the PPAR Nuclear Receptors



Keywords: PPARs / Diabetes / 8-HETE / Eicosanoids / Stereoselective synthesis

2197 J. M. Concellón,* C. Concellón, P. Diaz

An Efficient Synthesis of 2-Bromo-3-hydroxy Esters by Reaction of Ketones with Ethyl Dibromoacetate Promoted by Samarium Diiodide

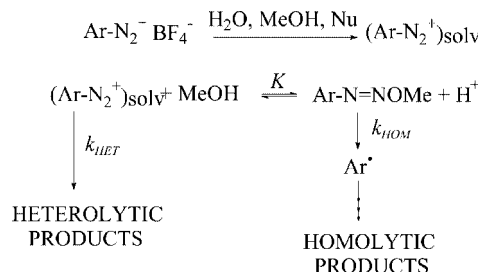


Keywords: Samarium / 2-Bromo-3-hydroxy ester / Aldol reaction

2201 R. Pazo-Llorente, H. Maskill,
C. Bravo-Diaz,* E. Gonzalez-Romero

Dediazoniation of 4-Nitrobenzenediazonium Ions in Acidic MeOH/H₂O Mixtures: Role of Acidity and MeOH Concentration on the Formation of Transient Diazo Ethers that Initiate Homolytic Dediazoniation

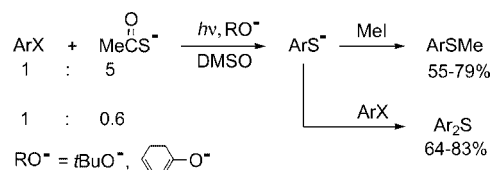
Keywords: Arenediazonium ions / Dediazoniation / Solvolysis / Alcohols / Kinetics



2210 L. C. Schmidt, V. Rey, A. B. Peñeñory*

Photoinduced Nucleophilic Substitution of Aryl Halides with Potassium Thioacetate – A One-Pot Approach to Aryl Methyl and Diaryl Sulfides

Keywords: Electron transfer / Nucleophilic substitution / Sulfides / Radical anions / Radicals

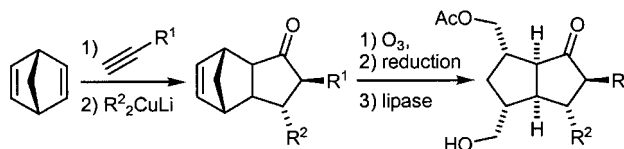


2215 A. Becheanu, A. Baro, S. Laschat,* W. Frey



Synthesis of Highly Functionalized Pentalenes via Intermolecular Pauson–Khand Reaction

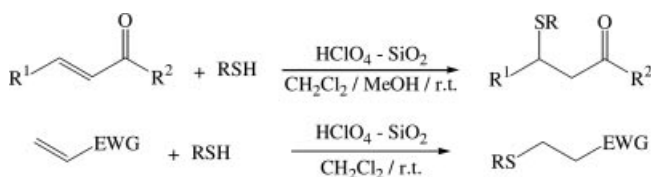
Keywords: Acetylation / Lipases / Organocuprate addition / Pauson–Khand reaction / Pentalenes



2226 A. T. Khan,* S. Ghosh, L. H. Choudhury

Perchloric Acid Impregnated on Silica Gel (HClO₄/SiO₂): A Versatile Catalyst for Michael Addition of Thiols to the Electron-Deficient Alkenes

Keywords: Thiols / Electron-deficient alkenes / Michael addition / Silica-supported perchloric acid



CORRECTION

2232 **J.-W. Wang, Q.-S. Li,* F.-B. Xu,
H.-B. Song, Z.-Z. Zhang***

Synthetic and Structural Studies of Silver(I)- and
Gold(I)-Containing N-Heterocyclic Carbene
Metallacrown Ethers

Keywords: Carbene ligands / Crown compounds /
Gold / Silver

