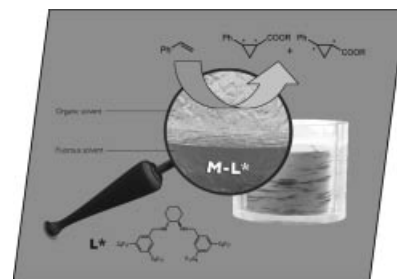


COVER PICTURE

The cover picture shows a biphasic reaction catalysed by a metal complex of an enantiopure fluororous 1,2-diamine ligand (L^*). C_2 -symmetric diamines and diimines bearing perfluoro-alkyl ponytails have attracted considerable attention as recoverable chiral ligands in transition-metal-catalyzed asymmetric processes. In this case, preformed cobalt(II) and in situ generated copper(I) complexes of such ligands have been tested as catalysts for the cyclopropanation of styrene with diazoacetates. Under optimised reaction conditions, which include the use of a fluororous biphasic system and short reaction times, the copper complex of L^* afforded promising results and could be easily separated from the products by simple decantation of the fluororous phase. Details are discussed in the article by G. Pozzi, D. O'Hagan et al. on p. 4545ff. Cover art by Marco Cavazzini.



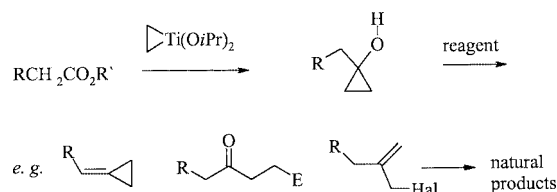
MICROREVIEW

Contents

4517 O. Kulinkovich

Synthetic Applications of Intermolecular Cyclopropanation of Carboxylic Esters with Dialkoxytitanacyclopropane Reagents

Keywords: Grignard reagents / Titanium alkoxides / Titanacyclopropanes / Carboxylic esters / Cyclopropanols / Natural products

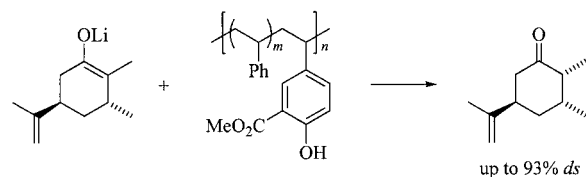


SHORT COMMUNICATIONS

4531 M. Mackenstedt, N. Krause*

Synthesis of Novel Functionalized Polymers for the Diastereoselective Protonation of Chiral Enolates

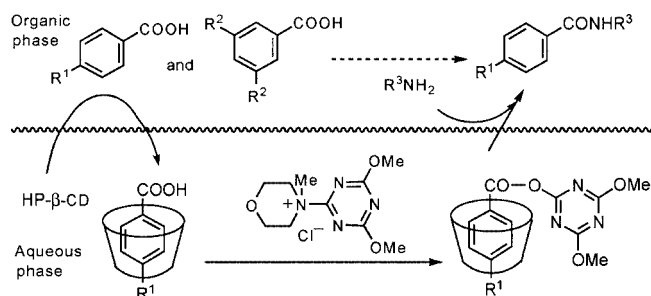
Keywords: Chelation / Chiral enolates / Diastereoselectivity / Functionalized polymers / Protonations



4535 M. Kunishima,* Y. Watanabe, K. Terao, S. Tani

Substrate-Specific Amidation of Carboxylic Acids in a Liquid–Liquid Two-Phase System Using Cyclodextrins as Inverse Phase-Transfer Catalysts

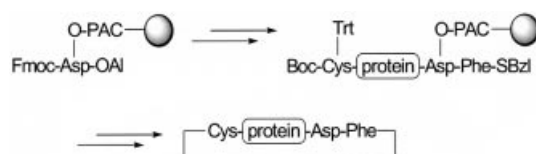
Keywords: Amides / Condensation / Cyclodextrins / Host–guest systems / Phase-transfer catalysis



4541 J. Tulla-Puche, I. V. Getun, J. Alsina, F. Albericio, G. Barany*

Synthetic Circularized Analogues of Bovine Pancreatic Trypsin Inhibitor

Keywords: Circular proteins / Native chemical ligation / Solid-phase synthesis / Orthogonal protecting groups / Thioesters / Cyclization

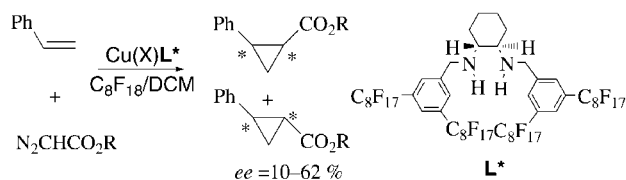


FULL PAPERS

4545 I. Shepperson, S. Quici, G. Pozzi,* M. Nicoletti, D. O'Hagan*

C₂-Symmetric Fluorous Diamines and Diimines as Ligands for Metal-Catalysed Asymmetric Cyclopropanation of Styrene

Keywords: Asymmetric catalysis / Biphasic catalysis / Cobalt / Copper / N ligands

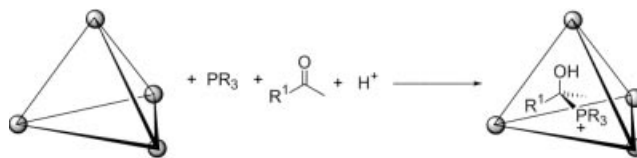


4552 J. L. Brumaghim, M. Michels, K. N. Raymond*



Hydrophobic Chemistry in Aqueous Solution: Stabilization and Stereoselective Encapsulation of Phosphonium Guests in a Supramolecular Host

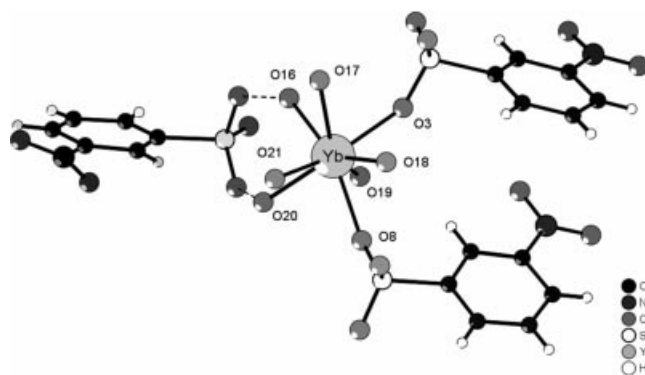
Keywords: Host–guest systems / Phosphanes / Ketones / Enantioselectivity / Supramolecular chemistry



4560 T. N. Parac-Vogt, S. Pachini, P. Nockemann,
K. Van Hecke, L. Van Meervelt,
K. Binnemans*

Lanthanide(III) Nitrobenzenesulfonates as New Nitration Catalysts: The Role of the Metal and of the Counterion in the Catalytic Efficiency

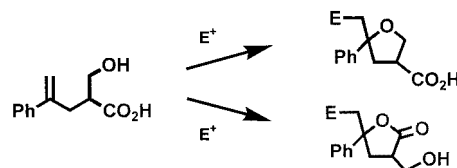
Keywords: Homogeneous catalysis / Lanthanides / Lewis acids / Electrophilic substitution / Nitration / Rare earths



4567 S. S. Khokhar, T. Wirth*

Nucleophile-Selective Selenocyclizations

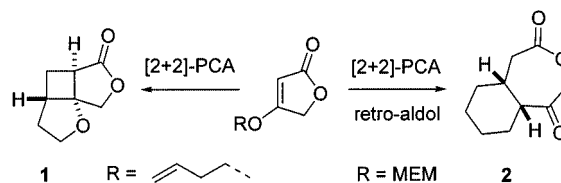
Keywords: Alkenes / Electrophiles / Heterocycles / Selenium / Stereoselective synthesis



4582 M. Kemmler, E. Herdtweck, T. Bach*

Inter- and Intramolecular [2+2]-Photocycloaddition of Tetronates – Stereoselectivity, Mechanism, Scope and Synthetic Applications

Keywords: Cycloadditions / Diastereoselectivity / Lactone / Oxygen heterocycles / Photochemistry

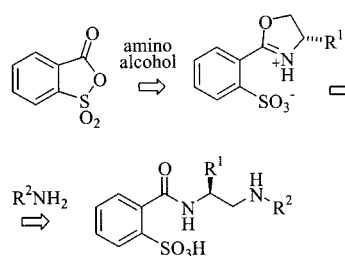


4596 R. I. Robinson, J. C. Stephens,
S. M. Worden, A. J. Blake, C. Wilson,
S. Woodward*



Sulfonic Acid Libraries Attained Through Opening of 2-Sulfobenzoic Acid Anhydride

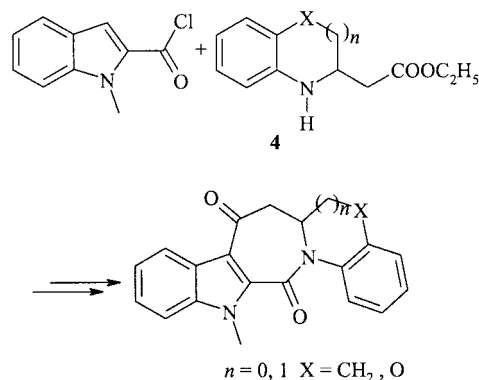
Keywords: Molecular diversity / Amino alcohols / Sulfonic acids / S ligands / N,O ligands / Hydrogen bonding



4606 J. Perron, B. Joseph, J.-Y. M  rour*

Synthesis of Substituted Azepino[3,4-*b*]indole-1,5-diones

Keywords: β -Amino esters / Indoles / Electrophilic cyclisation / Synthesis design

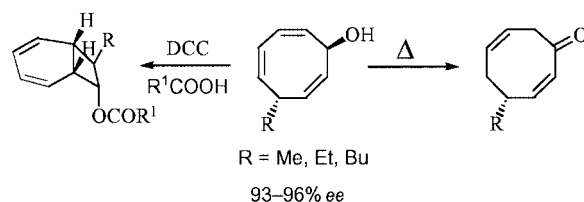


4614 M. Pineschi,* F. Del Moro, P. Crotti,
F. Macchia



Simple Synthetic Transformations of Highly Enantio-Enriched 4-Alkyl-2,5,7-cyclooctatrienols into Functionalized Bicyclo[4.2.0]octa-2,4-dienes and 2,6-Cyclooctadienones

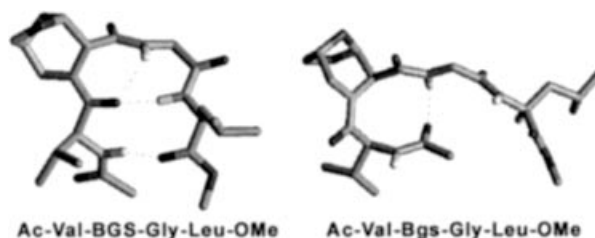
Keywords: Asymmetric catalysis / Copper / Electrocyclic reactions / Sigmatropic rearrangement / Zinc



4621 A. Trabocchi, D. Potenza, A. Guarna*

Solvent-Dependent Conformational Behaviour of Model Tetrapeptides Containing a Bicyclic Proline Mimetic

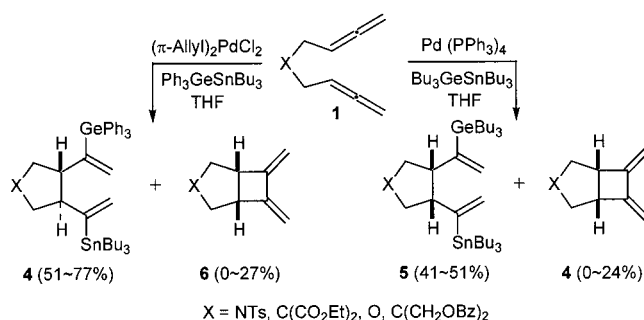
Keywords: Conformational analysis / NMR spectroscopy / Peptidomimetics / Proline / Reverse turn



4628 Y.-T. Hong, S.-K. Yoon, S.-K. Kang,
C.-M. Yu*

A Stereoselective Carbocyclization of Bis(allenes) with Germylstannane Catalyzed by Palladium Complexes

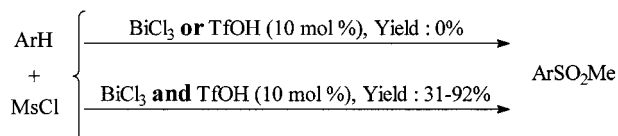
Keywords: Allenes / Cyclization / Germylstannane / Palladium / Stereochemistry



4636 M. Peyronneau, M.-T. Boisdon, N. Roques,
S. Mazières,* C. Le Roux*

Total Synergistic Effect between Triflic Acid and Bismuth(III) or Antimony(III) Chlorides in Catalysis of the Methanesulfonylation of Arenes

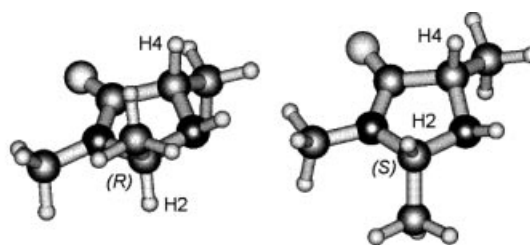
Keywords: Alkylsulfonylation / Catalysis / Friedel–Crafts reaction / Triflic acid



4641 M. Rošćić, R. Eklund, E.-L. Nordmark,
Š. Horvat, G. Widmalm*

Stereochemical Assignment of Diastereomeric Imidazolidinone-Ring-Containing Bicyclic Sugar-Peptide Adducts: NMR Spectroscopy and Molecular Calculations

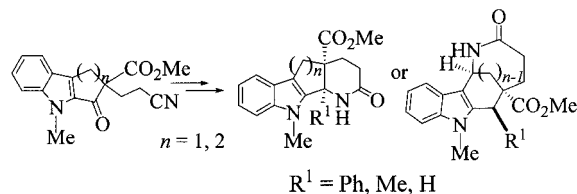
Keywords: Carbohydrates / Conformational analysis / Density functional calculations / Imidazolidinone / Leu-enkephalin / NMR spectroscopy



4648 F. Maertens, A. Van den Bogaert,
F. Compennolle,* G. J. Hoornaert

Intramolecular Ritter Reactions of 2-(2-Cyanoethyl)tetrahydrocyclopenta[*b*]indole and -carbazole Derivatives

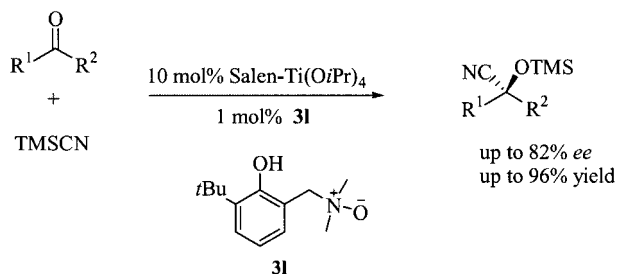
Keywords: Carbazoles / Grignard reaction / Heterocyclic compounds / Indoles / Ritter reaction



4657 B. He, F.-X. Chen, Y. Li, X. Feng,*
G. Zhang

Effective Activation of the Chiral Salen/Ti(OiPr)₄ Catalyst with Achiral Phenolic *N*-Oxides as Additives in the Enantioselective Cyanosilylation of Ketones

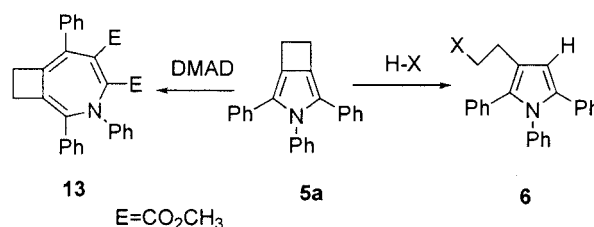
Keywords: Asymmetric catalysis / *N*-Oxides / Cyanosilylation / Cyanohydrins



4667 K. Matsumoto,* S. Goto, N. Hayashi,*
H. Iida, T. Uchida, A. Kakehi

2,3,4-Triphenyl-3-azabicyclo[3.2.0]hepta-1,4-diene – Facile Ring-Opening by Electrophiles and Novel Reactions with Dimethyl Acetylenedicarboxylate

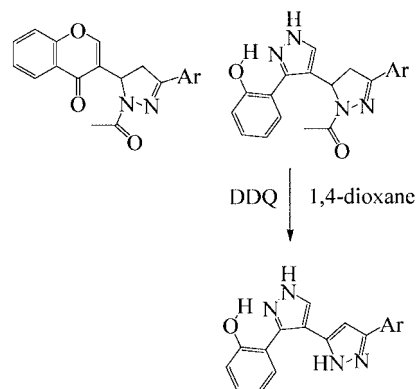
Keywords: Azepine / retro-Friedel–Crafts reaction / Ring opening / Small ring system



4672 A. Lévai,* A. M. S. Silva,*
D. C. G. A. Pinto, J. A. S. Cavaleiro,
I. Alkorta, J. Elguero, J. Jekő

Synthesis of Pyrazolyl-2-pyrazolines by Treatment of 3-(3-Aryl-3-oxopropenyl)chromen-4-ones with Hydrazine and Their Oxidation to Bis(pyrazoles)

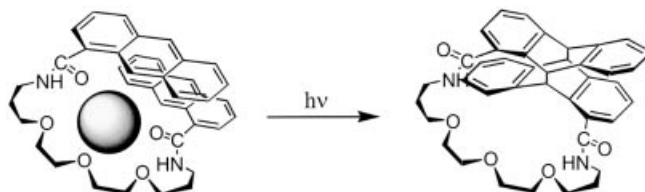
Keywords: B3LYP / Bispyrazoles / Chromones / GIAO / NMR spectroscopy / 4-Pyrazolyl-2-pyrazolines



4680 H. Hiraga, T. Morozumi, H. Nakamura*

Template Effects of Metal Cations for Controlling the Regioisomer Distribution on the Photodimerization of *N,N'*-Linked Bis(anthracenecarboxamides)

Keywords: Anthracene derivatives / Conformation analysis / Host–guest systems / Photochemistry / Photodimerization

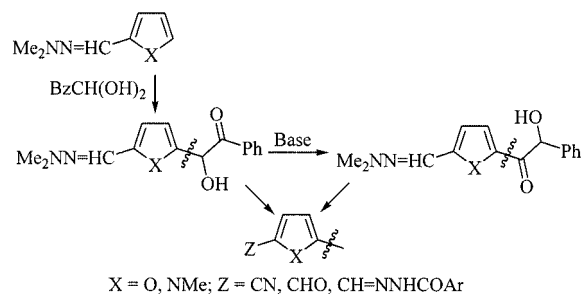


4688

S. P. Ivonin,* A. V. Lapandin,
A. A. Anishchenko, V. G. Shtamburg

Mutual Influence of (Dimethylhydrazono)-methyl Groups and α -Hydroxy Ketone Moieties in Hetaryl Analogues of Unsymmetric Benzoin

Keywords: Benzoin / Electrophilic substitution / Heterocycles / Hydrazones / Isomerization

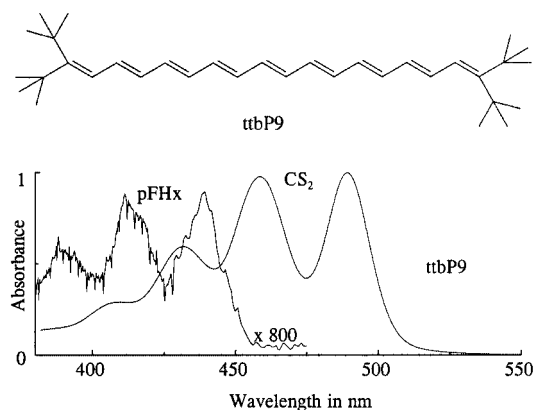


4694

J. Catalán,* H. Hopf

Empirical Treatment of the Inductive and Dispersive Components of Solute–Solvent Interactions: The Solvent Polarizability (SP) Scale

Keywords: Solvent effects / Solvent polarizability / Solvatochromism / Polyenes

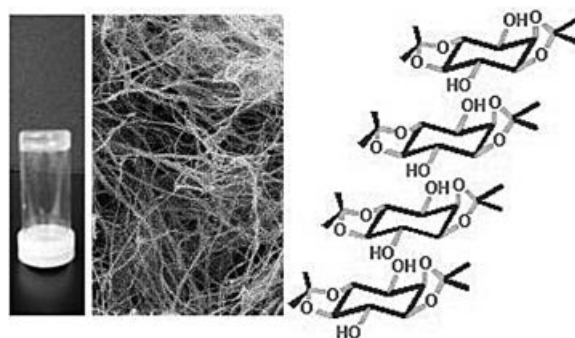


4703

K. M. Sureshan,* K. Yamaguchi, Y. Sei,
Y. Watanabe*

Probing Gelation at the Molecular Level: Head-to-Tail Hydrogen-Bonded Self-Assembly of an Inositol-Based Organogelator

Keywords: Gels / Hydrogen bonding / Inositol / Self-assembly / Supramolecular chemistry

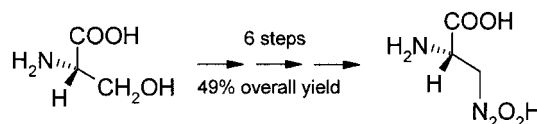


4710

P. Strazzolini,* M. G. Dall'Arche, M. Zossi,
A. Pavsler

An Improved Stereoselective Synthesis of L-Alanosine

Keywords: Amino acids / Antitumour agents / Asymmetric synthesis / Chiral pool / Structure elucidation



4717

F. Vögtle,* H. Fakhrnabavi, O. Lukin,*
S. Müller, J. Friedhofen, C. A. Schalley*

Towards a Selective Functionalization of Amino-Terminated Dendrimers

Keywords: Dendrimers / Dendrons / Selective functionalization / Persulfonation

