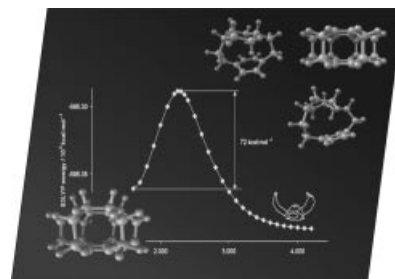


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COVER PICTURE

The cover picture shows (1) the hypothetical hexahydrosuperphane, which according to high level quantum chemical calculations, should have a planar cyclohexane ring, (2) the dependence of its B3LYP energy on the extension of the cyclohexane C–C bond leading to the decomposition of the title compounds, and (3) two other hexahydrocyclophanes. The relatively high barrier to the concerted retro [2+2+2] decomposition of the title molecule shown indicates that it should be a plausible synthetic target. The calculated NMR chemical shifts of hexahydrosuperphane will be of importance in identifying the molecule after its synthesis. Details are discussed in the article by H. Dodziuk and M. Ostrowski on p. 5231 ff.



MICROREVIEW

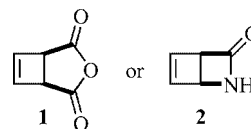
Contents

5207 N. Gauvry, C. Lescop, F. Huet*



Substituted Cyclobutenes, Their Preparation,
 and Their Versatility in Synthesis

Keywords: Cyclobutene / Additions / Ring contractions / Nucleosides / Dienes



various products including
 dienes, nucleosides, several
 bicyclic compounds

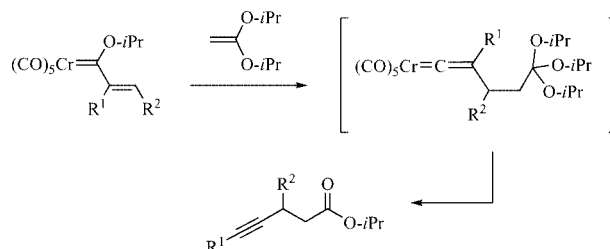
SHORT COMMUNICATIONS

5219 S. L. B. Wang, X. Liu, M. C. Ruiz,
V. Gopalsamuthiram, W. D. Wulff*



Reactions of Alkenyl Fischer Carbene Complexes with Ketene Acetals: Formation of Alkynes

Keywords: Fischer carbene complex / Ketene acetal / Michael addition / Vinylidene complex / Rearrangement

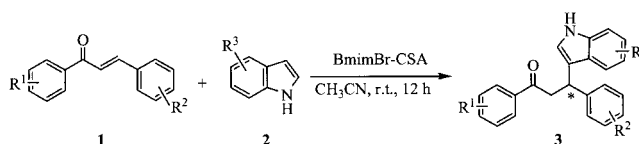


5225 W. Zhou, L.-W. Xu,* L. Li, L. Yang,
C.-G. Xia*



Enantioselective Michael-Type Friedel–Crafts Reactions of Indoles to Enones Catalyzed by a Chiral Camphor-Based Brønsted Acid

Keywords: Michael addition / Friedel–Crafts Reaction / Indoles / Enones / Asymmetry / Dual Activation

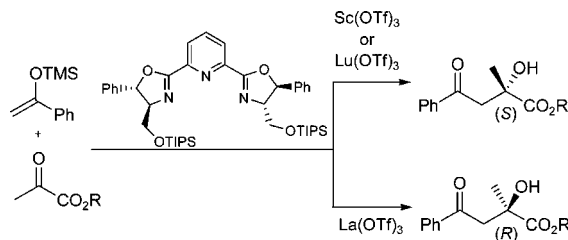


5228 G. Desimoni,* G. Faita, F. Piccinini,
M. Toscanini



Enantioselective Mukaiyama–Aldol Reaction of Pyruvates and 1-Phenyl-1-trimethylsilyloxyethene Catalyzed by Lanthanide/Pybox Complexes

Keywords: Aldol reactions / Enantioselectivity / Lanthanides / Pybox ligands



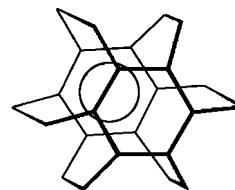
FULL PAPERS

5231 H. Dodziuk,* M. Ostrowski



Planarization of the Cyclohexane Ring by Its Incorporation Into a Cyclophane Cage: Hexahydrosuperphane

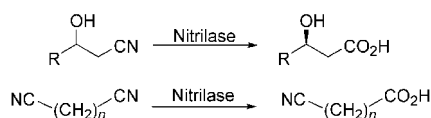
Keywords: Strained hydrocarbons / Cyclophanes / Density functional calculations / NMR chemical shifts



5238 C. Mukherjee, D. Zhu, E. R. Biehl, L. Hua*

Exploring the Synthetic Applicability of a Cyanobacterium Nitrilase as Catalyst for Nitrile Hydrolysis

Keywords: Enzyme catalysis / Nitrilase / Hydrolysis / Cyanobacterium / Cyano carboxylic acid / β -Hydroxy carboxylic acid

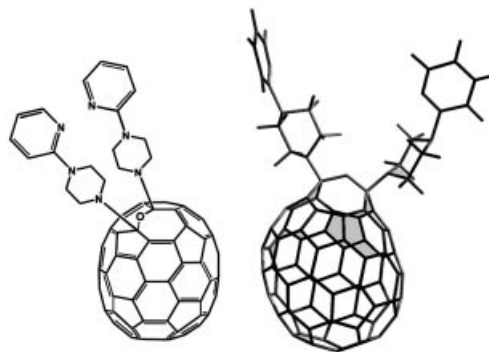


- 5243** O. A. Troshina,* P. A. Troshin,*
A. S. Peregudov, V. I. Kozlovski,
R. N. Lyubovskaya



$C_{70}[NR_2]_2O$: The First C_{70} Intramolecular Ethers Bearing Two Amine Groups

Keywords: Fullerenes / Amination / Amines

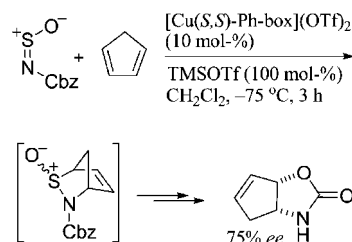


- 5249** M. M. Endeshaw, A. Bayer, L. K. Hansen,
O. R. Gautun*



Catalytic Asymmetric Hetero Diels–Alder Reactions of *N*-Sulfinyl Dienophiles with Chiral Bis(oxazoline)copper(II) and -zinc(II) Triflates

Keywords: Asymmetric catalysis / Lewis acids / Cycloaddition / *N*-Sulfinyl dienophiles

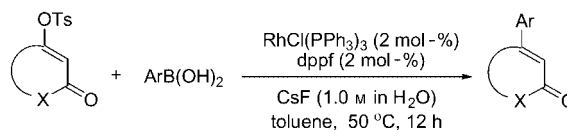


- 5260** J. Wu,* L. Zhang, K. Gao



$RhCl(PPh_3)_3$ /DPPF: A Useful and Efficient Catalyst for Cross-Coupling Reactions of Activated Alkenyl Tosylates with Arylboronic Acids

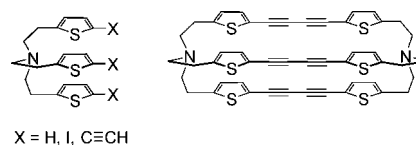
Keywords: Rhodium / 1,1'-Bis(diphenylphosphanyl)-ferrocene / Cross-coupling / activated alkenyl tosylates / Natural products



- 5264** M. Baier, R. Gleiter,* F. Rominger

Tripodands with Phenyl and Thiophenyl Rings and Nitrogen Bridgehead Atoms

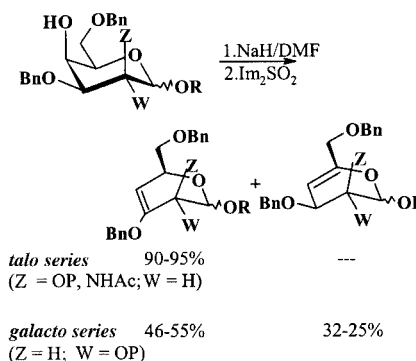
Keywords: Tripodands / Thiophene / Alkynes / van der Waals forces / Solid state packing / Silver



- 5279** E. Attolino, G. Catelani,* F. D'Andrea

Regiospecific Synthesis of 4-Deoxy-D-*threo*-hex-3-enopyranosides by Simultaneous Activation–Elimination of the Talopyranoside Axial 4-OH with the NaH/ Im_2SO_2 System: Manifestation of the Stereoelectronic Effect

Keywords: Carbohydrates / Hex-3-enopyranosides / Talopyranosides / Imidazylates / Elimination / Stereoelectronic effect

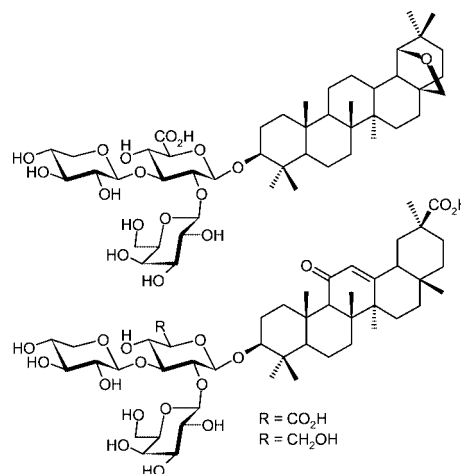


5293

M. I. Passos Eleutério, J. Schimmel,
G. Ritter, M. do Céu Costa, R. R. Schmidt*

Synthesis of Saponins with Allobetulin and
Glycyrrhetic Acid as Aglycones

Keywords: Carbohydrates / Glycosylation / Glyco-
sides / Immunostimulants / Saponins /
Trichloroacetimidates

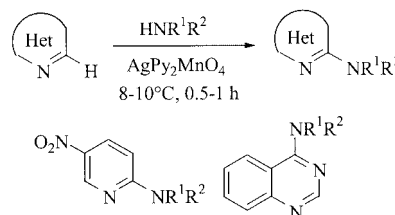


5305

A. V. Gulevskaya, B. U. W. Maes,*
C. Meyers, W. A. Herrebout,
B. J. van der Veken

C–N Bond Formation by the Oxidative
Alkylamination of Azines: Comparison of
AgPy₂MnO₄ versus KMnO₄ as Oxidant

Keywords: Nucleophilic substitution / Aromatic sub-
stitution / Oxidation / Amination / Density
functional theory



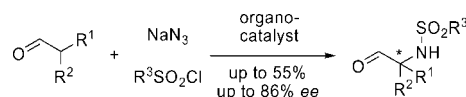
5315

H. Vogt, T. Baumann, M. Nieger, S. Bräse*



Direct Asymmetric α -Sulfamidation of α -
Branched Aldehydes: A Novel Approach to
Enamine Catalysis

Keywords: Asymmetric synthesis / Organocatalysis /
Amination / 1,3-Dipolar cycloaddition /
Amino acids



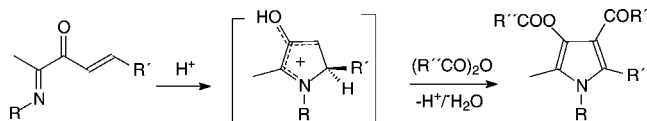
5339

J. Dieker, R. Fröhlich, E.-U. Würthwein*



Substituted 3-Hydroxypyrroles from 1-Aza-
penta-1,4-dien-3-ones: The Aza-Nazarov
Reaction – Synthesis and Quantum Chemical
Calculations

Keywords: Aza-Nazarov reaction / Ring-closure
reactions / 3-Hydroxypyrroles / Quantum
chemistry / Cations / Ring contraction

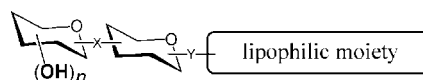


5357

M. Dubber, A. Patel, K. Sadalapure,
I. Aumüller, T. K. Lindhorst*

Synthesis of Functionalized Amphiphilic Glyco-
conjugates and Glyoclusters

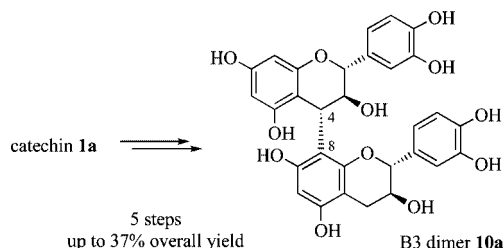
Keywords: Carbohydrates / Glyoclusters / Amphi-
philic glycoconjugates / Glycolipid mime-
tics



5367 I. Tarascou, K. Barathieu, Y. André,
I. Pianet, E. J. Dufourc, E. Fouquet*

An Improved Synthesis of Procyanidin Dimers:
Regio- and Stereocontrol of the Interflavan
Bond

Keywords: Polyphenol / Procyanidin dimer / Synthetic
methods / Stereoselectivity / Oligomerization

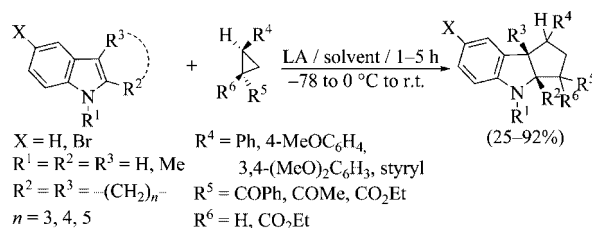


5378 C. Venkatesh, P. P. Singh, H. Ila,*
H. Junjappa



Highly Diastereoselective [3+2] Cyclopenta-
[b]annulation of Indoles with 2-Arylcyclopropyl
Ketones and Diesters

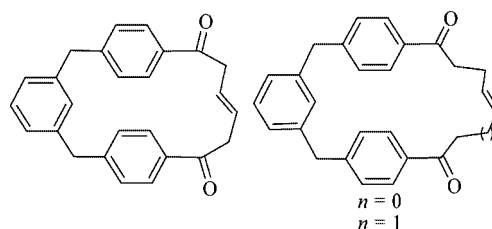
Keywords: [3+2] Cycloaddition / Cyclopenta[b]in-
doles / Synthetic methods / Diastereo-
selectivity / Propellanes



5387 S. Kotha,* K. Mandal

Suzuki–Miyaura Cross-Coupling and Ring-
Closing Metathesis: A Strategic Combination
for the Synthesis of Cyclophane Derivatives

Keywords: Cyclophanes / Isomerization / Olefin me-
tathesis / Palladium / Ruthenium / Suzuki–
Miyaura cross-coupling

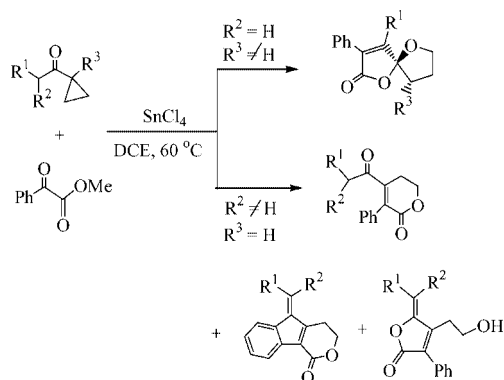


5394 Y.-H. Yang, M. Shi*



SnCl₄-Mediated Reactions of Cyclopropyl Alkyl
Ketones with α-Keto Esters

Keywords: Cyclopropyl alkyl ketones / Lewis acids /
α-Keto esters / Spiro-γ-lactones



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