

COVER PICTURE

The cover picture shows the enantiomers of the *exo* (front) and *endo* (back) isoxazolidines obtained from the box-catalysed 1,3-dipolar cycloaddition between 3-acryloyl-1,3-oxazolidin-2-one and diphenylnitron. The last and unknown *exo* isomer was selectively obtained (*de* = 80 %; *ee* = 99 %) for the first time by using the appropriate disubstituted box and Ni^{II} as asymmetric catalyst, and its absolute configuration is reported in the article by G. Desimoni et al. on p. 1020ff. The view over the cross yards of the Old University of Pavia is the backdrop for the schematic representation of the four possible stereoisomers selectively obtained by using box-based asymmetric catalysts.



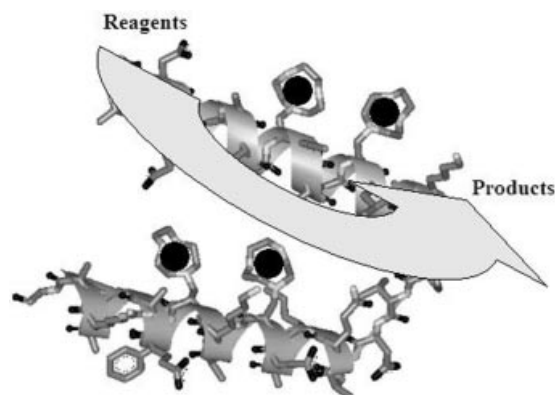
MICROREVIEWS

Contents

969 G. Licini, L. J. Prins, P. Scrimin*

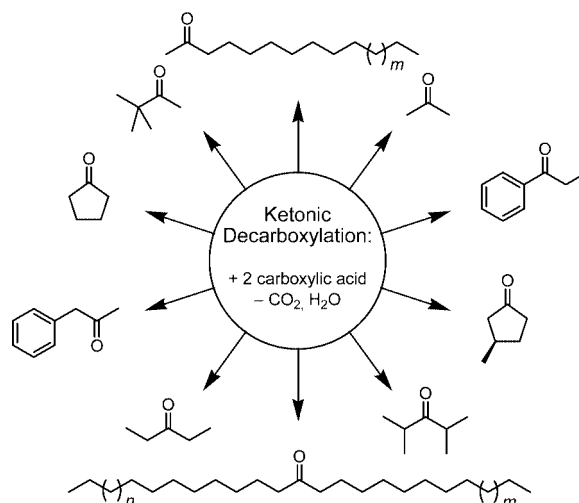
Oligopeptide Foldamers: From Structure to Function

Keywords: Catalysis / Molecular recognition /
 Peptides / Supramolecules



Ketonization of Carboxylic Acids by Decarboxylation: Mechanism and Scope

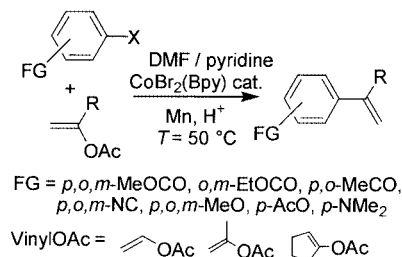
Keywords: Carboxylic acids / Catalysis / Decarboxylation / Ketones



SHORT COMMUNICATIONS

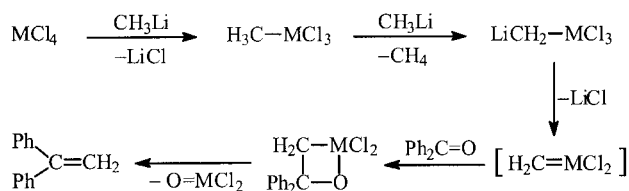
Cobalt-Catalyzed Vinylation of Functionalized Aryl Halides with Vinyl Acetates

Keywords: Catalysis / Cobalt / Cross-coupling / Styrene / Vinylation



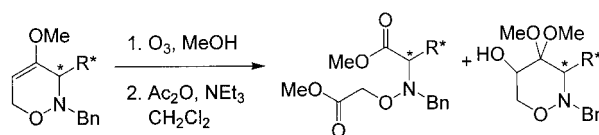
Novel Alkylidenating Agents via the α Lithiation of Monoalkyl Group 4 Metal Derivatives: Methylidene-Metal Complexes and Their Active Lithiated Precursors

Keywords: Group 4 metals / Methyl derivatives / Methylidene complexes / Lithiation / ROMP catalyst



Ozonolyses of Enantiopure 4-Alkoxy-3,6-dihydro-2*H*-1,2-oxazines: An Expedient Route to Functionalized α -Amino- β -hydroxy Esters

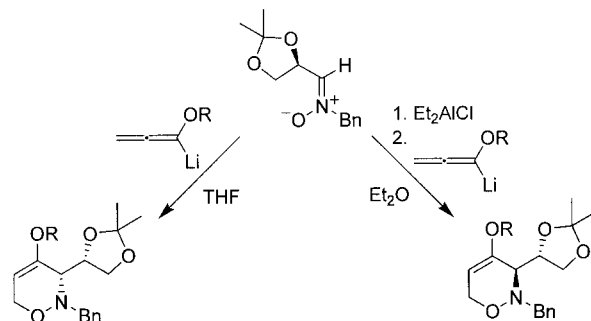
Keywords: Amino acids / Carbohydrates / 1,2-Oxazines / Ozonolysis



- 1003** M. Helms, W. Schade, R. Pulz,
T. Watanabe, A. Al-Harrasi, L. Fišera,
I. Hlobilová, G. Zahn, H.-U. Reißig*

Stereodivergent Syntheses of Highly Substituted Enantiopure 4-Alkoxy-3,6-dihydro-2*H*-1,2-oxazines by Addition of Lithiated Alkoxyallenes to Carbohydrate-Derived Aldonitrones

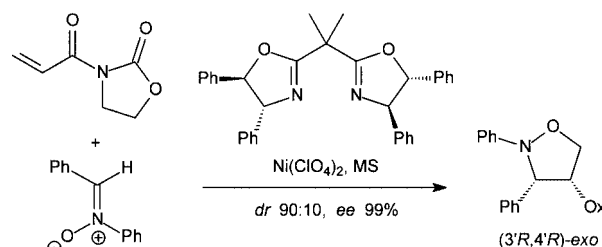
Keywords: Allenes / Lithium / Nitrones / Carbohydrates / 1,2-Oxazines



- 1020** G. Desimoni,* G. Faita,* M. Mella,
M. Boiocchi

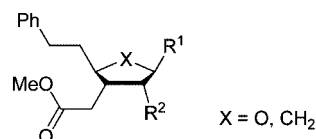
In Search of *exo*-Selective Catalysts for Enantioselective 1,3-Dipolar Cycloaddition between Acryloyloxazolidinone and Diphenylnitrone

Keywords: Asymmetric catalysis / Cycloaddition / Enantioselectivity / N,O ligands



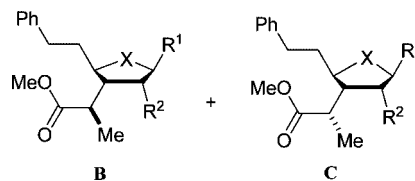
- 1028** J. Mulzer,* U. Steffen, H. J. Martin,
L. Zorn

Facially Controlled *C*-Methylation of Oxolanyl and Cyclopentyl Acetate Enolates: Application to the Total Synthesis of (+)-Nephromopsinic Acid



A

1. LDA
2. MeI



B

C

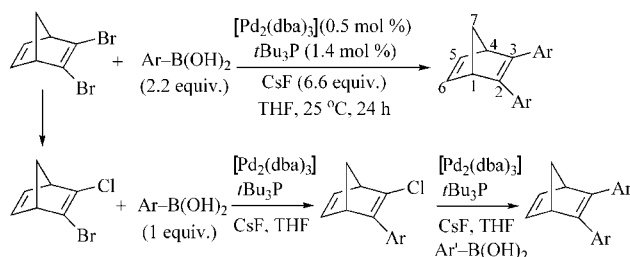
the ratio of **B** : **C** lies between
62 : 38 and 96 : 4

Keywords: Alkylation / Configuration determination / Enolates / Natural product synthesis / Paraconic acids / Stereoelectronic effects

- 1044** W. Yoo, G. C. Tsui, W. Tam*

Palladium-Catalyzed Suzuki Couplings of 2,3-Dibromonorbornadiene: Synthesis of Symmetrical and Unsymmetrical Aryl-Substituted Norbornadienes

Keywords: Palladium/ Catalysis / Suzuki couplings / Norbornadienes / Boronic acids

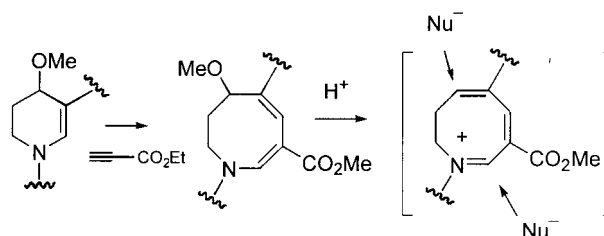


1052

A. C. Leal Badaró Trindade,
D. C. dos Santos, L. Gil, C. Marazano,
R. Pereira de Freitas Gil*

Synthesis of New Azocine Derivatives and Their Functionalization by Nucleophilic Addition to Their Iminium Salts

Keywords: Azocines / Nitrogen heterocycles / Cycloaddition / Nucleophilic addition / Regioselectivity

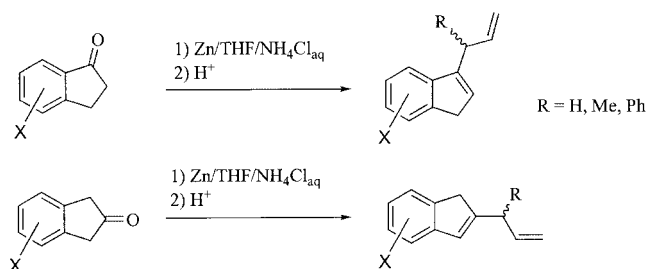


1058

S. Silver, A.-S. Leppänen, R. Sjöholm,
A. Penninkangas, R. Leino*

Towards Benign Synthesis of Indenes from Indanones: Zinc-Mediated Allylation of Ketones in Aqueous Media as a Source of Substituted Indenyl Ligand Precursors

Keywords: Cyclopentadienyl ligands / Allylation / Zinc / Ketones / Hydrosilylation

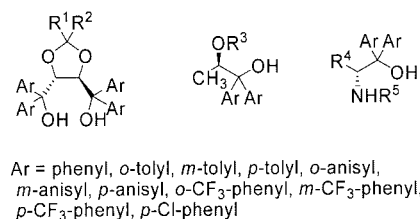


1082

S. Müller, M. C. Afraz, R. de Gelder,
G. J. A. Ariaans, B. Kaptein,
Q. B. Broxterman, A. Bruggink*

Design and Evaluation of Inclusion Resolutions, Based on Readily Available Host Compounds

Keywords: Inclusion / Chiral resolution / Host-guest systems / Enantioselectivity

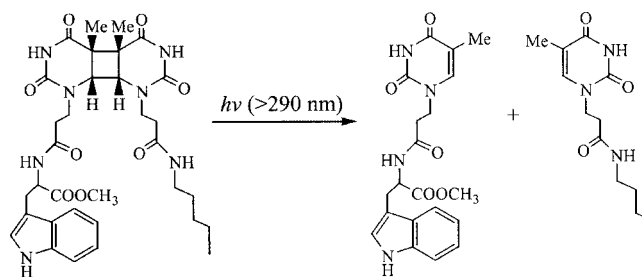


1097

Q.-H. Song,* W.-J. Tang, X.-M. Hei,
H.-B. Wang, Q.-X. Guo, S.-Q. Yu

Efficient Photosensitized Splitting of Thymine Dimer by a Covalently Linked Tryptophan in Solvents of High Polarity

Keywords: DNA photorepair / Electron transfer / Pyrimidine dimer / Tryptophan / Solvent effects

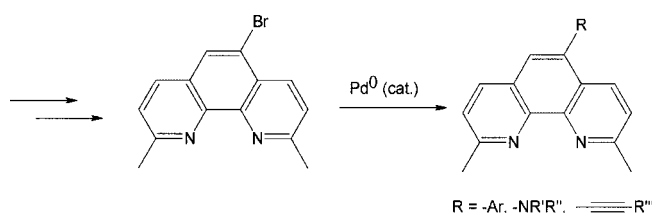


1107

J. P. W. Eggert, U. Lüning,* C. Näther

Synthesis and Functionalisation of 5-Substituted Neocuproine Derivatives

Keywords: Catalysis / Cross-coupling / N ligands / Palladium / Silylation

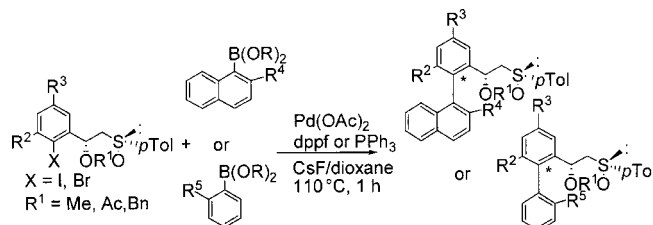


1113 P. Broutin, F. Colobert*



An Asymmetric Biaryl Suzuki Cross-Coupling Reaction: Stereogenic Benzylic Carbinols as Chiral Auxiliaries

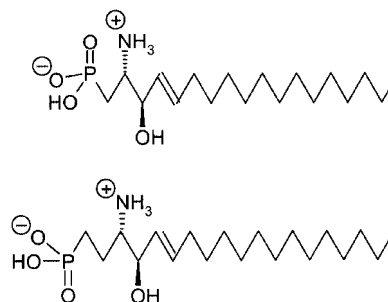
Keywords: Asymmetric synthesis / Cross-coupling / Palladium / Suzuki reaction / Stereogenic carbinol / Sulfoxides



1129 A. Tarnowski, O. Retz, T. Bär, R. R. Schmidt*

Synthesis of Sphingosine-1-phosphonate and Homosphingosine-1-phosphonate

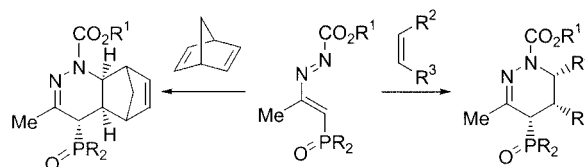
Keywords: Sphingosines / Phosphonates / Epoxide opening / Wittig reaction



1142 F. Palacios,* D. Aparicio, Y. López, J. M. de los Santos, C. Alonso

Cycloaddition Reactions of Phosphorylated 1,2-Diaza-1,3-butadienes with Olefins: Regioselective Synthesis of Pyridazine Derivatives

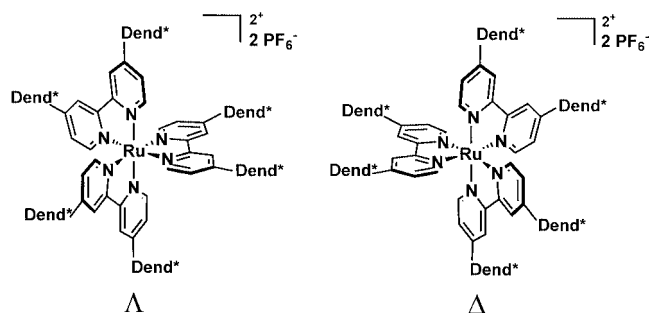
Keywords: Cycloadditions / Diazabutadienes / Hydrazones / Fused-ring systems / Nitrogen heterocycles



1148 B. Buschhaus, A. Hirsch*

Diastereoselective Assembly of Chiral Ru^{II}-Coordinated Depsipeptide-Dendrimers

Keywords: Depsipeptides / Dendrimers / Diastereoselectivity / Bipyridine Ligands / Ruthenium



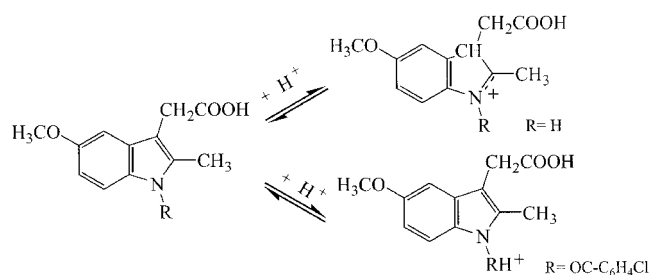
Dend* = chiral enantiomerically pure dendron



1161 F. J. Hoyuelos, B. García,* S. Ibeas, M. S. Muñoz, A. M. Navarro, I. Peñacoba, J. M. Leal

Protonation Sites of Indoles and Benzoylindoles

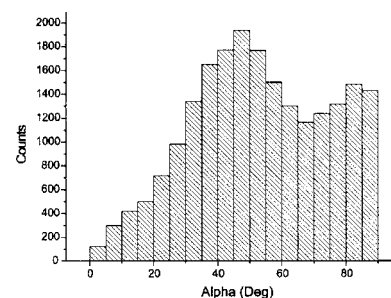
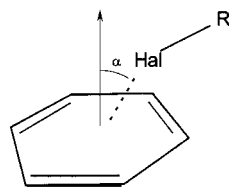
Keywords: Acidity function / Protonation / Indole / Benzoylindole / Indomethacine / Acemethacine



- 1172** D. Swierczynski, R. Luboradzki,*
G. Dolgonos, J. Lipkowski,*
H.-J. Schneider*

Non-Covalent Interactions of Organic Halogen Compounds with Aromatic Systems – Analyses of Crystal Structure Data

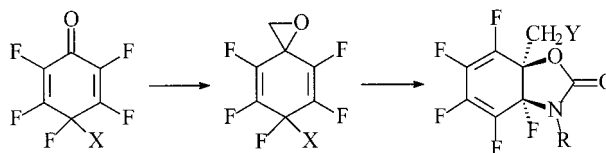
Keywords: Organic halogen compounds / Arenes / Hydrogen bonds / van der Waals interactions



- 1178** V. N. Kovtonyuk, L. S. Kobrina*,
O. M. Kataeva, G. Haufe*

Formation of Fluorinated 1-Oxaspiro[2.5]octa-4,7-dienes from Polyfluorinated Cyclohexa-2,5-dienones with Diazomethane and Reactions with Aryl and 2-Chloroethyl Isocyanates

Keywords: Fluorinated cyclohexadienones / Heterocycles / Oxiranes

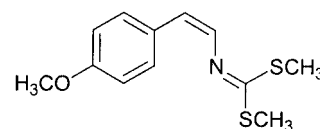
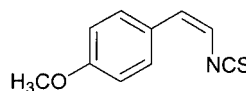


X = Cl, NO₂, OC₆F₅, F; Y = Cl, OC₆F₅; R = C₂H₄Cl, Ar

- 1184** S. H. von Reuß,* W. A. König

Olefinic Isothiocyanates and Iminodithiocarbonates from the Liverwort *Corsinia coriandrina*

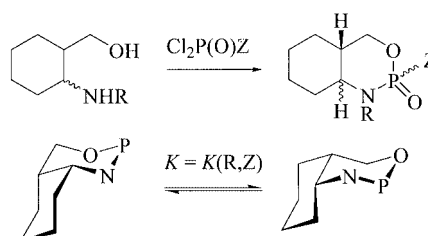
Keywords: *Corsinia coriandrina* / Liverworts / Natural products / Coridrin / Coriandrin / Tridentatol / Isothiocyanates / Iminodithiocarbonates



- 1189** H. Kivelä, Z. Zalán, P. Tähtinen,
R. Sillanpää, F. Fülöp,* K. Pihlaja*

Synthesis and Conformational Analysis of Saturated 3,1,2-Benzoxazaphosphinine 2-Oxides

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



R = H, Me, CH₂Ph
Z = Ph, OPh,
N(CH₂CH₂Cl)₂

