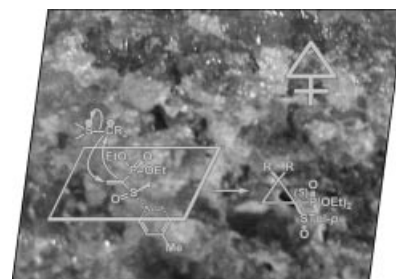


COVER PICTURE

The cover picture shows the preferred steric course of the reaction of sulfur ylides with enantiopure α -phosphorylvinyl sulfides. The background is crystalline sulfur, rich deposits of which are in south-eastern Poland. Sulfur and its alchemical emblem symbolize the importance of the stereogenic sulfur atom in this asymmetric cyclopropanation reaction. Details are discussed in the article by M. Mikołajczyk et al. on p. 653 ff.



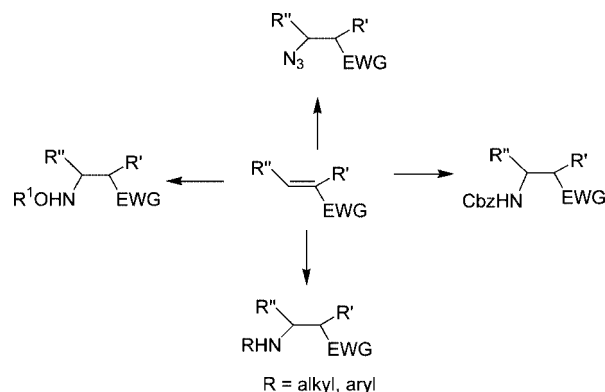
MICROREVIEW

Contents

633 L. Xu,* C. Xia

A Catalytic Enantioselective Aza-Michael Reaction: Novel Protocols for Asymmetric Synthesis of β -Amino Carbonyl Compounds

Keywords: Asymmetric synthesis / Aza-Michael reaction / Conjugate addition / β -amino carbonyl compound



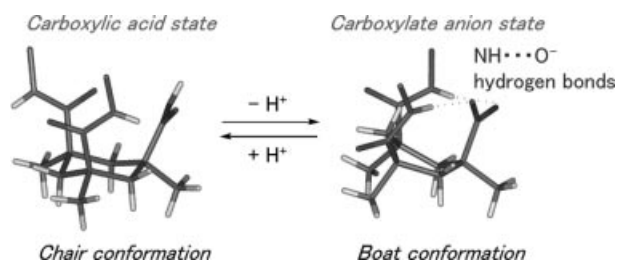
SHORT COMMUNICATIONS

- 641** A. Onoda, H. Haruna, H. Yamamoto,
K. Takahashi, H. Kozuki, T. Okamura,
N. Ueyama*



Proton-Driven Conformational Switch of a Cyclohexyl Skeleton Coupled with NH $\cdots$ O Hydrogen-Bond Formation

Keywords: Carboxylate anion / Conformational change / Hydrogen bonds / Kemp's acid

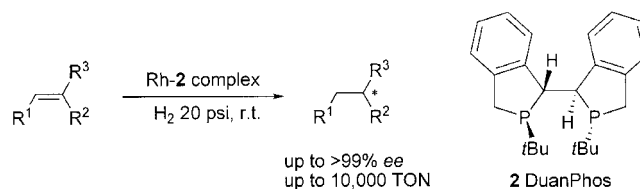


- 646** D. Liu, X. Zhang*



Practical P-Chiral Phosphane Ligand for Rh-Catalyzed Asymmetric Hydrogenation

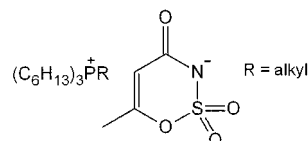
Keywords: Alkenes / Asymmetric hydrogenation / P-chiral phosphane ligand / Resolution / Rhodium



- 650** J. Pernak,* F. Stefaniak, J. Węglewski

Phosphonium Acesulfamate Based Ionic Liquids

Keywords: Ionic liquids / Phosphonium salts / Acesulfamate / Sweetener

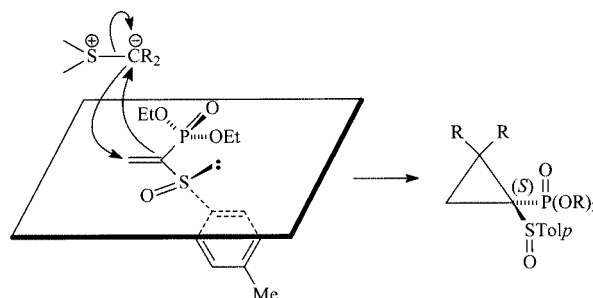


FULL PAPERS

- 653** W. H. Midura, J. A. Krysiak, M. Cypryk,
M. Mikołajczyk,* M. W. Wiczorek,
A. D. Filipczak

Asymmetric Cyclopropanation of Optically Active (1-Diethoxyphosphoryl)vinyl *p*-Tolyl Sulfoxide with Sulfur Ylides: A Rationale for Diastereoselectivity

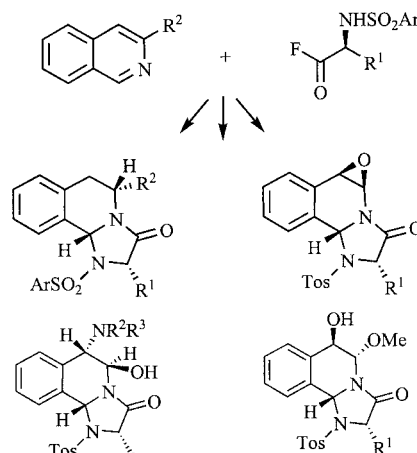
Keywords: Asymmetric synthesis / Cyclopropanes / Density functional calculations / Diastereoselectivity / Vinyl sulfoxides



663 O. Sieck, M. Ehwald, J. Liebscher*

Asymmetric Synthesis of Isoquinoline Derivatives from Amino Acids

Keywords: Asymmetric synthesis / Heterocycles / Amino acids / Epoxidation / Imidazoisoquinolinones

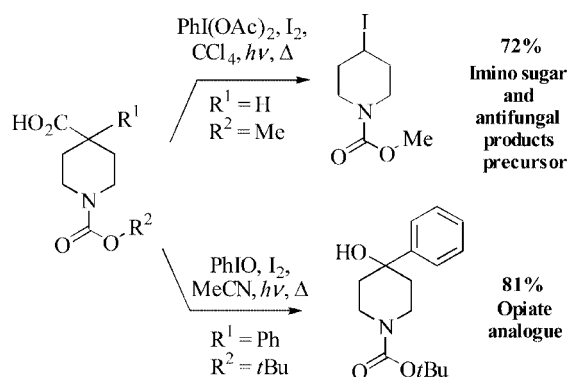


673 A. Boto,* R. Hernández,* Y. de León,
J. R. Murguía, A. Rodríguez-Afonso



Synthesis of Functionalized Nitrogen Heterocycles by Radical Decarboxylation of β - and γ -Amino Acids

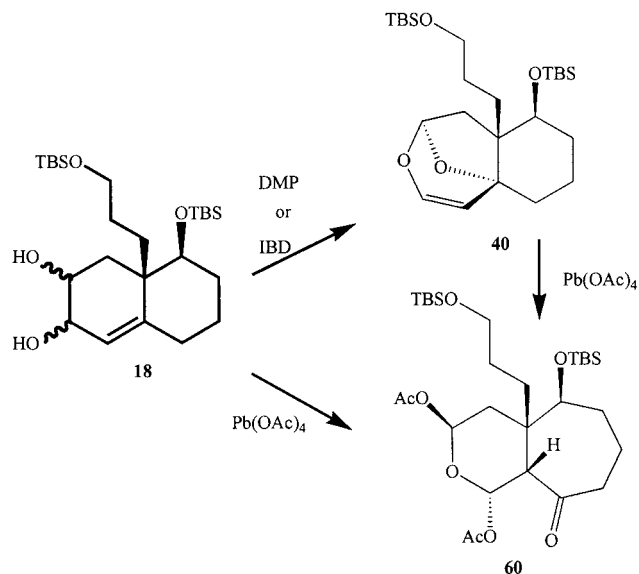
Keywords: Amino acids / Cleavage reactions / Halogenation / Nitrogen heterocycles / Radical reactions



683 J. I. C. Lena, E. M. S. Fernández,
A. Ramani, N. Birlirakis, A. F. Barrero,
S. Arseniyadis*

Mild Protocols for Generating Molecular Complexity: A Comparative Study of Hetero-Domino Reactions Based on the Oxidant and the Substitution Pattern

Keywords: Domino reactions / Glycol fission reagents / Ring expansion / Synthetic methods

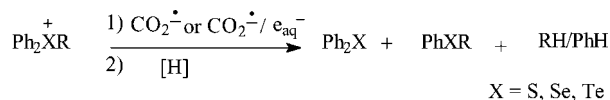


701

P. Eriksson, L. Engman,* J. Lind,
G. Merényi

Aqueous Phase One-Electron Reduction of
Sulfonium, Selenonium and Telluronium Salts

Keywords: Radical / One-electron reduction /
Sulfonium salts / Selenonium salts /
Telluronium salts

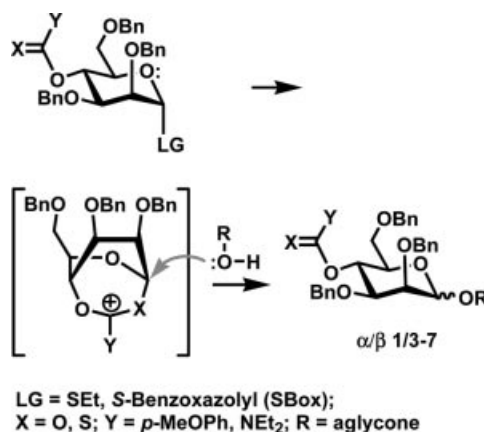


706

C. DeMeo, M. N. Kamat, A. V. Demchenko

Remote Participation-Assisted Synthesis of β -
Mannosides

Keywords: Carbohydrates / Glycosylation / Remote
participation / Stereoselective synthesis



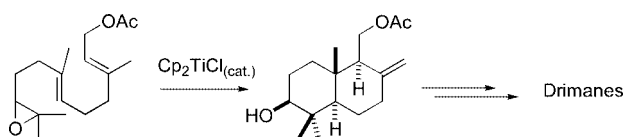
712

J. Justicia, J. E. Oltra, A. F. Barrero,
A. Guadaño, A. González-Coloma,
J. M. Cuerva*



Total Synthesis of 3-Hydroxydrimanes Mediated
by Titanocene(III) – Evaluation of Their
Antifeedant Activity

Keywords: Biological activity / Homogeneous cataly-
sis / Radicals / Titanium complexes / Total
synthesis



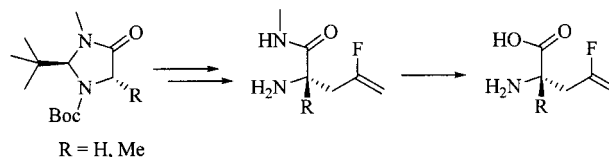
719

D. M. Shendage, R. Fröhlich, K. Bergander,
G. Haufe*



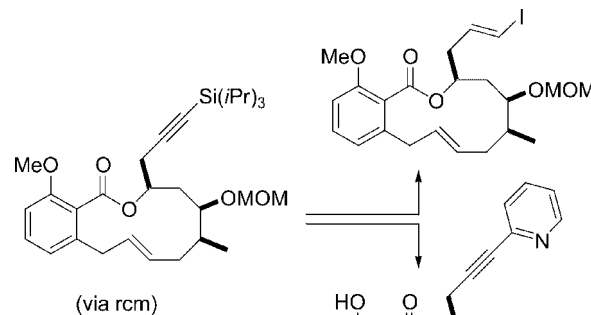
Asymmetric Synthesis of γ -Fluorinated α -Amino
Acid Derivatives

Keywords: Alkylation / Asymmetric synthesis / Fluori-
nated α -amino acids / 2-Fluoroallyl
tosylate / Isomerization





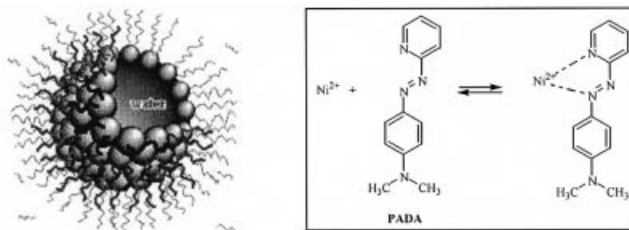
Synthesis of the Salicylihalamide Core Structure from Epichlorohydrin - Laying the Foundation to Macrolactone Collections



Keywords: Aldol reactions / Alkynes / Macrocycles / Metathesis

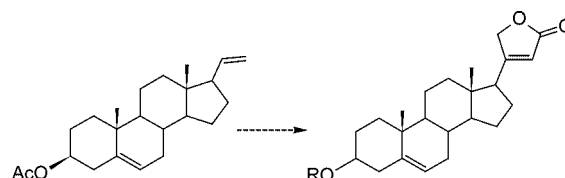
Kinetic Study of Ni^{2+} and Co^{2+} Complexation by PADA in AOT-Based Water in Oil Microemulsions

Keywords: Microemulsions / AOT / Kinetic / PADA / Mechanism / Complexation



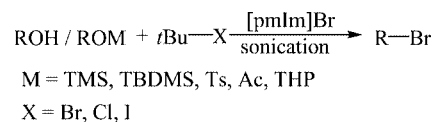
Cyclobutanone Approach to the Synthesis of Cardenolides

Keywords: Cyclobutanones / Steroids / Cardenolides / Cycloaddition



Direct Halogenation of Alcohols and Their Derivatives with *tert*-Butyl Halides in the Ionic Liquid [pmIm]Br under Sonication Conditions – A Novel, Efficient and Green Methodology

Keywords: Halogenation / Ionic liquid / Alcohols / Halides / Sonication



Reactions of *gem*-Aryl-Disubstituted Methylene-cyclopropanes with Diaryl Diselenide in the Presence of Iodosobenzene Diacetate

Keywords: Cyclobutyl cation / Iodosobenzene diacetate / MCPs / β -Proton elimination / Ring opening / Selenium

