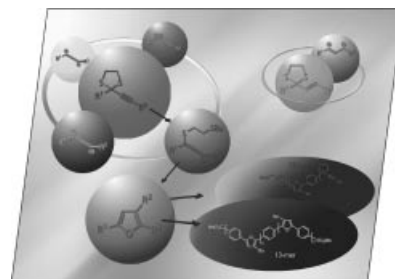


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COVER PICTURE

The cover picture shows recent advances in the synthetic applications of the dithioacetal functionality. With the aid of thiophilic organolithium or organocopper reagents, propargylic dithioacetals and related compounds have been shown to be useful for the synthesis of polysubstituted allenes, trisubstituted furans and pyrroles. An extension of this annulation reaction to the bidirectional iterative synthesis of furan-containing oligoaryls and to cyclophane synthesis is described. Alternatively, convergent synthesis of such oligoaryls from propargylic dithioacetals is briefly discussed. Not only can the carbon–sulfur bonds in dithioacetals be readily displaced by carbon–carbon and/or carbon–heteroatom bonds, but a range of reactions involving polarity inversion in neighboring carbon atoms can also take place. Representative examples are presented in the Microreview by T.-Y. Luh and C.-F. Lee on p. 3875ff.

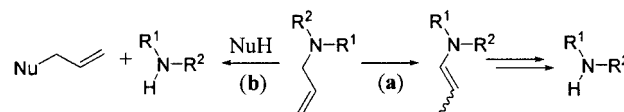


MICROREVIEWS

Contents

3855 S. Escoubet, S. Gastaldi, M. Bertrand*

Methods for the Cleavage of Allylic and Propargylic C–N Bonds in Amines and Amides – Selected Alternative Applications of the 1,3-Hydrogen Shift

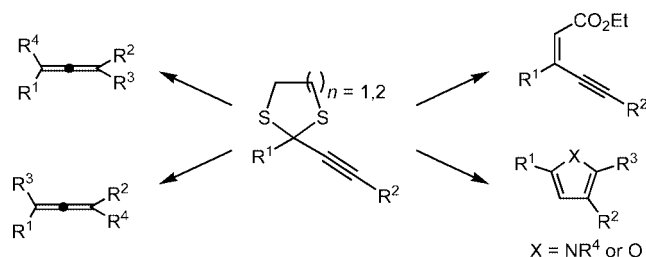


Keywords: Amides / Amines / Cleavage reactions / Hydrogen transfer / Nucleophilic substitution / Synthetic methods

3875 T.-Y. Luh,* C.-F. Lee

Dithioacetals as Zwitterion Synthons

Keywords: Propargylic dithioacetals / Zwitterion synthons / Furans / Pyrroles / Oligoaryls



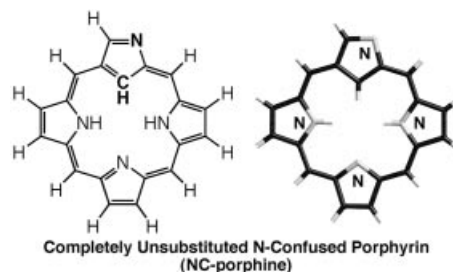
SHORT COMMUNICATION

3887 T. Morimoto, S. Taniguchi, A. Osuka, H. Furuta*



N-Confused Porphine

Keywords: Aromaticity / Macrocyclic ligands / N-confused porphyrin / Porphyrinoids

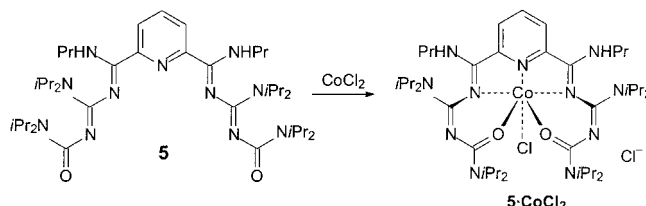


FULL PAPERS

3891 H. Behrens, R. Fröhlich, E.-U. Würthwein*

Pyridine-Based Oligonitriles as Pincer Ligands for Palladium(II), Copper(II), Cobalt(II), and Nickel(II) Ions

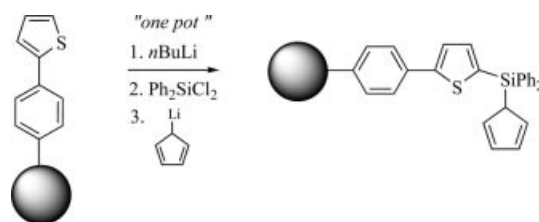
Keywords: Ligand design / Oligonitriles / N ligands / Pincer complexes / Ring-opening reaction



3900 A. Fauvel, H. Deleuze,* Y. Landais*

New Polymer-Supported Organosilicon Reagents

Keywords: Polymerization / Solid-phase synthesis / Metallation / Silicon / TamamsFleming oxidation



3911 M. Quintiliani, E. M. García-Frutos, A. Gouloumis, P. Vázquez, I. Ledoux-Rak, J. Zyss, C. G. Claessens, T. Torres*

Synthesis, Characterisation and Nonlinear Optical Properties of Two-Dimensional Octupolar Systems Based on Phthalocyanine Compounds

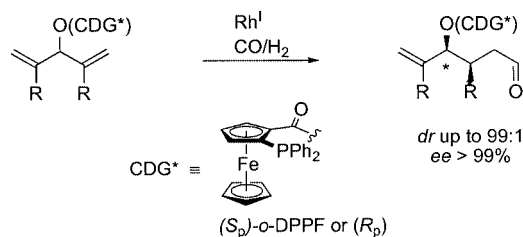
Keywords: Cross-coupling / Nonlinear optics / Palladium / Phthalocyanines



3916 B. Breit,* D. Breuninger

Desymmetrizing Hydroformylation of Dialkenylcarbinols with the Aid of a Planar-Chiral, Catalyst-Directing Group

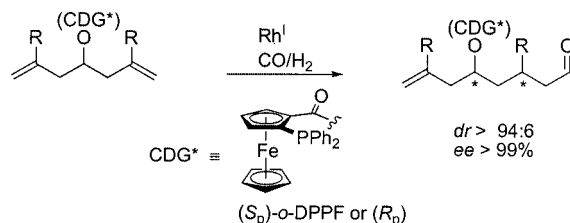
Keywords: Asymmetric synthesis / Catalysis / C–C coupling / Desymmetrization / Hydroformylation



3939 B. Breit,* D. Breuninger

Desymmetrizing Hydroformylation of Diallylcarbinols with the Aid of a Planar-Chiral, Catalyst-Directing Group

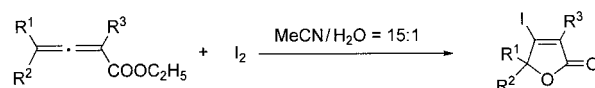
Keywords: Asymmetric synthesis / Catalysis / C–C coupling / Desymmetrization / Hydroformylation



3942 C. Fu, S. Ma*

Efficient Preparation of 4-Iodofuran-2(5*H*)-ones by Iodolactonisation of 2,3-Allenates with I₂

Keywords: Allenes / Cyclisation / Esters / Iodine / Lactones

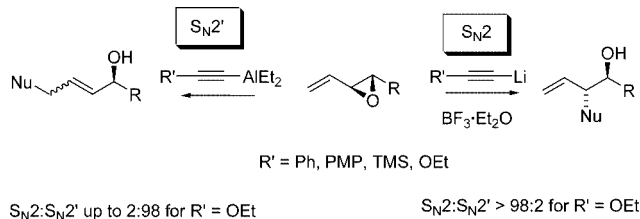


3946 P. Restorp, P. Somfai*



Regioselective and Divergent Opening of Vinyl Epoxides with Alkyne Nucleophiles

Keywords: Vinyl epoxides / Epoxide opening / Alkyne nucleophiles / Regioselectivity

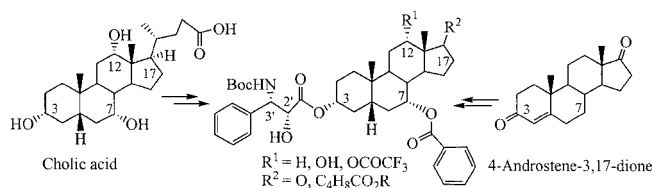


3952 F. Roussi,* Q. A. Ngo, S. Thoret, F. Guéritte, D. Guénard



The Design and Synthesis of New Steroidal Compounds as Potential Mimics of Taxoids

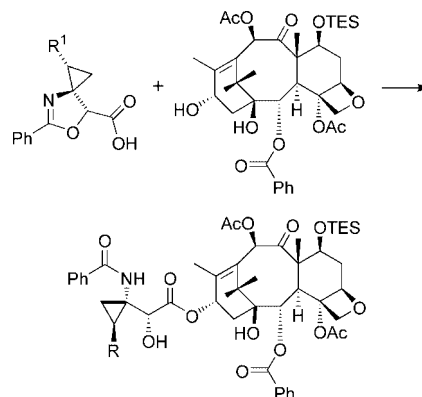
Keywords: Antitumor agents / Asymmetric synthesis / Medicinal chemistry / Steroids



3962 C. Liu, M. Tamm, M. W. Nötzel, K. Rauch, A. de Meijere, J. K. Schilling, A. Lakdawala, J. P. Snyder, S. L. Bane, N. Shanker, R. Ravindra, D. G. I. Kingston*

C-3'-Cyclopropanated Taxol Analogs: Synthesis, Bioassay and Biostructural Analysis

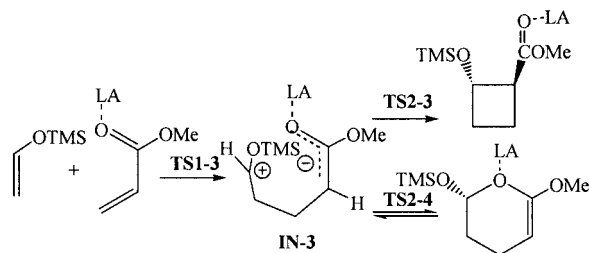
Keywords: Medium-ring compounds / Natural products / Heterocycles / Amino acids / Drug design / Medicinal chemistry



3973 M. Arnó, R. J. Zaragoza, L. R. Domingo*

Lewis Acid Induced [2+2] Cycloadditions of Silyl Enol Ethers with α,β -Unsaturated Esters: A DFT Analysis

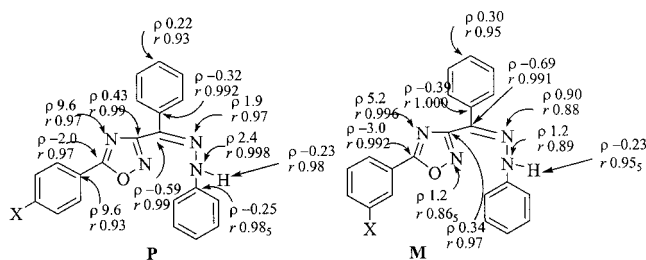
Keywords: Cycloaddition / Density functional calculations / Electrophilicity / Lewis acids



3980 E. Mezzina, D. Spinelli,* L. Lamartina, F. D'Anna, V. Frenna, G. Macaluso

NMR Study of the (Z)-Phenylhydrazones of 5-Alkyl- and 5-Aryl-3-benzoyl-1,2,4-oxadiazoles: Support for the Interpretation of Kinetic Results on the Rearrangement of 1,2,4-Oxadiazoles to 1,2,3-Triazoles

Keywords: Free-energy relationships / Hydrazones / Heterocycles / NMR spectroscopy

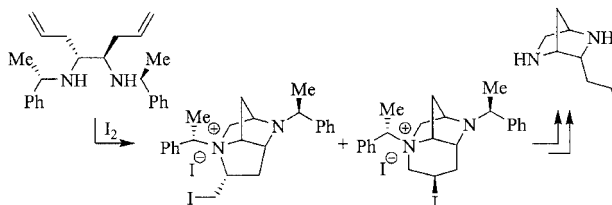


3987 C. Fiorelli, C. Marchioro, G. Martelli, M. Monari, D. Savoia*



Iodine-Mediated Cyclization of (4*R*,5*R*)-4,5-Diamino-*N,N'*-bis[(1*S*)-1-phenylethyl]-1,7-octadiene – A Stereoselective Route to 2,5-Diazabicyclo[2.2.1]heptanes

Keywords: Alkenes / Amines / Cyclization / Iodine / Nitrogen heterocycles

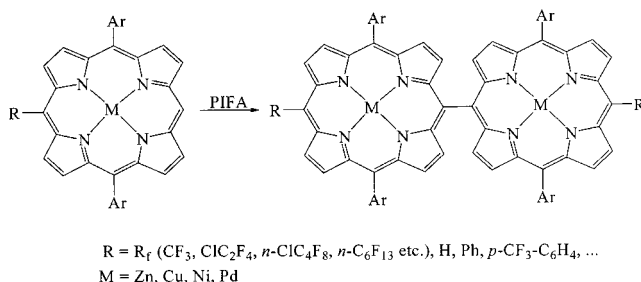


3994 L.-M. Jin, L. Chen, J.-J. Yin, C.-C. Guo,* Q.-Y. Chen*



A Facile and Potent Synthesis of *meso,meso*-Linked Porphyrin Arrays Using Iodine(III) Reagents

Keywords: Fluoroalkylporphyrins / Iodine / Porphyrinoids / Synthetic methods

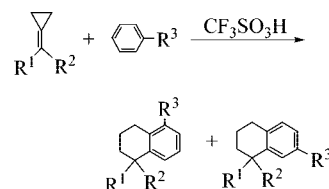


4002 B.-Y. Wang, R.-S. Jiang, J. Li, M. Shi*



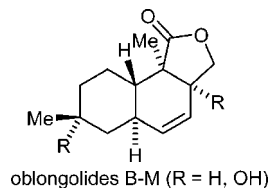
Brønsted Acid Mediated Double Friedel–Crafts Reaction of Methylene-cyclopropanes with Arenes

Keywords: Arenes / Brønsted acids / Cyclopropanes / Friedel–Crafts reaction



4009 J. Dai, K. Krohn,* D. Gehle, I. Kock,
U. Flörke, H.-J. Aust, S. Draeger, B. Schulz,
J. Rheinheimer

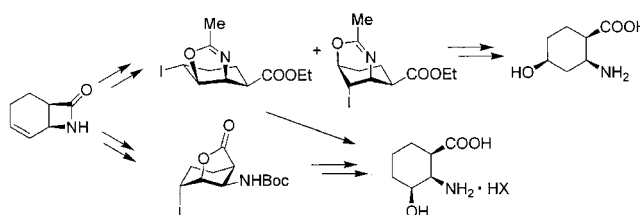
New Oblongolides Isolated from the Endophytic
Fungus *Phomopsis* sp. from *Melilotus dentata*
from the Shores of the Baltic Sea



Keywords: Biological activity / Lactones / Meta-
bolism / Natural products / NMR spec-
troscopy

4017 Z. Szakonyi, S. Gyónfalvi, E. Forró,
A. Hetényi, N. De Kimpe, F. Fülöp*

Synthesis of 3- and 4-Hydroxy-2-aminocyclo-
hexanecarboxylic Acids by Iodocyclization



Keywords: Amino acids / Iodocyclization / Iodolac-
tone / Stereoselectivity / Enantioselectivity



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