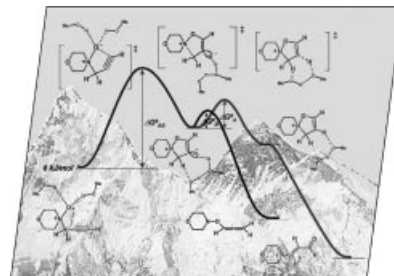


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COVER PICTURE

The cover picture shows the energy profile calculated by ab initio methods of the competing reactions from *N*-propargyl-morpholine *N*-oxide in protic medium: the well-known Meisenheimer rearrangement to *O*-allenylhydroxylamine and the recently revealed rearrangement to enamino aldehyde. Kinetic measurements in different alcohols, in agreement with the ab initio studies, afforded information on the structures of the transition states involved in the rate-determining and product-distribution-determining steps, supporting our assumption on the mechanism of these reactions. Details are discussed in the article by I. Hermecz et al. on p. 687ff.



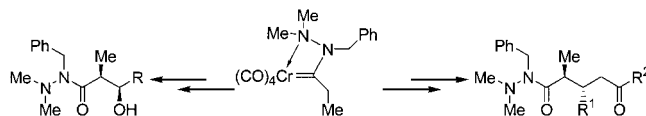
MICROREVIEWS

Contents

665 E. Licandro,* D. Perdicchia

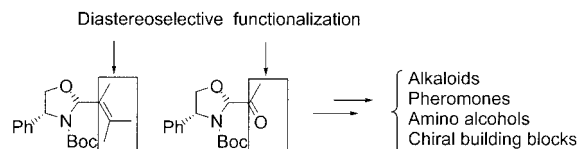
N-Acylhydrazines: Future Perspectives Offered
 by New Syntheses and Chemistry

Keywords: Acylhydrazines / Azapeptides / Carbenes /
 Hydrazides / Hydrazide enolates



The Use of *N*-Boc-1,3-Oxazolidines as Chiral Auxiliaries in Asymmetric Synthesis

Keywords: Alkaloids / Asymmetric synthesis / Oxazolidines / Protecting groups

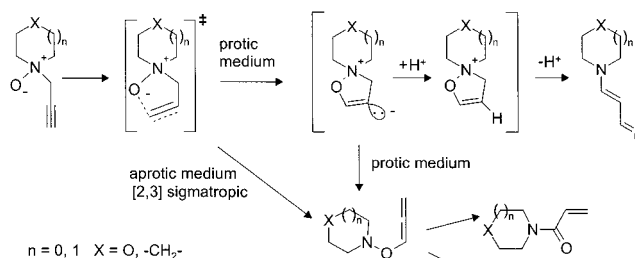


FULL PAPERS

A. Szabó, Á. Galambos-Faragó, Z. Mucsi, G. Timári, L. Vasvári-Debreczy, I. Hermecz*

Solvent-Dependent Competitive Rearrangements of Cyclic Tertiary Propargylamine *N*-Oxides

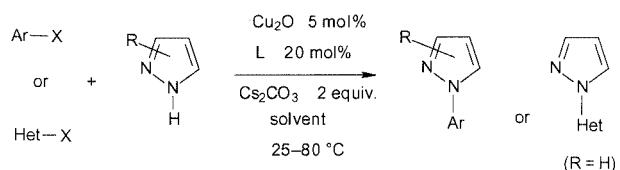
Keywords: Ab initio calculations / Reaction mechanisms / Rearrangements / Solvent effects



H.-J. Cristau,* P. P. Cellier, J.-F. Spindler, M. Taillefer*

Mild Conditions for Copper-Catalysed *N*-Arylation of Pyrazoles

Keywords: Arylation / Catalysis / Copper / Oxime ligands / Pyrazoles / Tetradentate ligands



$X = I, Br$

Het = thienyl, pyrazolyl, pyridyl

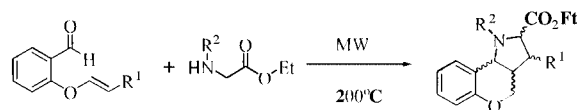
L = ligand with nitrogen and/or oxygen chelating atoms

Ar = C_6H_4R , R = H, Me, MeO, CF_3 , $C(O)Me$, Cl, Br, NC, H_2N , Het, O_2N , Et_2OC

J. Pospíšil, M. Potáček*

Microwave-Assisted Solvent-Free Synthesis of Hexahydrochromeno[4,3-*b*]pyrroles

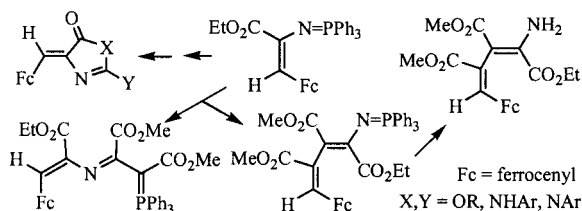
Keywords: Cycloaddition / Microwave-assisted synthesis / Solvent-free synthesis / Ylides



A. Csámpai, G. Túrós, V. Kudar, K. Simon, H. Oeynhausen, H. Wamhoff, P. Sohár*

Ethyl α -(Triphenylphosphoranylidene)amino- β -ferrocenylacrylate as a Starting Material for [2+2] Cycloadditions, Including the Aza-Wittig Reaction

Keywords: Nitrogen heterocycles / Oxygen heterocycles / Sandwich complexes / Structure elucidation



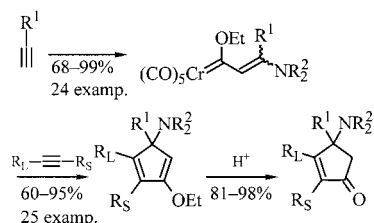
724

Y. T. Wu, B. Flynn, H. Schirmer,
F. Funke, S. Müller, T. Labahn, M. Nötzel,
A. de Meijere*



From α,β -Unsaturated Fischer Carbene Complexes to Highly Substituted 3-Ethoxycyclopentadienes, Masked Cyclopentenones

Keywords: Cocyclization / Organometallics / Template synthesis / Cycloadditions / Aldol reactions / Fischer carbenes

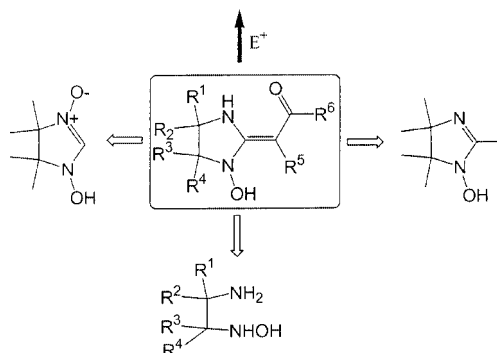


749

V. A. Reznikov,* G. I. Roshchupkina,
D. G. Mazhukin, P. A. Petrov, S. A. Popov,
S. V. Fokin, G. V. Romanenko,
T. V. Rybalova, Y. V. Gatilov,
Y. G. Shvedenkov, I. G. Irtegova,
L. A. Shundrin, V. I. Ovcharenko

A New Class of Enehydroxylamino Ketones –
(*R*)-2-(1-Hydroxy-4,4,5,5-tetraalkylimidazolidin-
2-ylidene)ethanones: Synthesis and Reactions

Keywords: Enaminones / EPR spectroscopy / Imidazolidines / Ketones / Nitroxides / Nucleophilic substitution

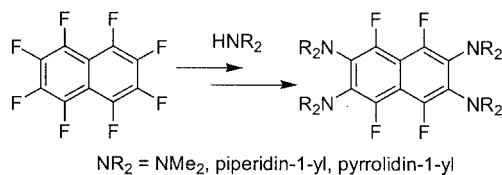


766

V. I. Sorokin, V. A. Ozeryanskii,*
A. F. Pozharskii

Exclusive β -Substitution in the Reaction of
Octafluoronaphthalene with Secondary Amines

Keywords: Arenes / Naphthalene derivatives / Nucleophilic substitution / Protodefluorination

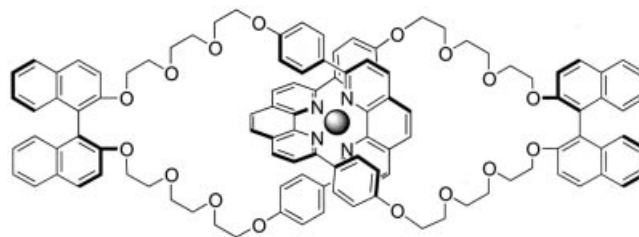


770

M. Koizumi, C. Dietrich-Buchecker,
J.-P. Sauvage*

A [2]Catenane Containing 1,1'-Binaphthyl Units
and 1,10-Phenanthroline Fragments: Synthesis
and Intermolecular Energy Transfer Processes

Keywords: Catenanes / Chirality / Copper / Luminescence / Template synthesis

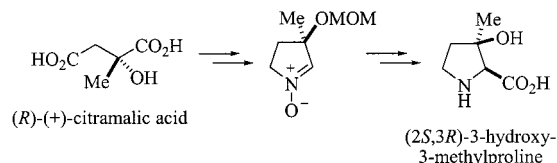


776

P. Merino,* J. Revuelta, T. Tejero, S. Cicchi,
A. Goti*

Fully Stereoselective Nucleophilic Addition to a
Novel Chiral Pyrroline *N*-Oxide: Total Syntheses
of (2*S*,3*R*)-3-Hydroxy-3-methylproline and Its
(2*R*)-Epimer

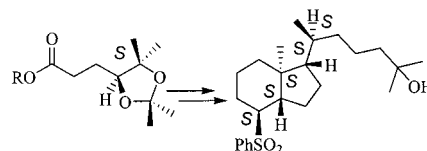
Keywords: Amino acids / Nitrones / Nucleophilic additions / Proline / Pyrrolidines



783 E. Gorobets, V. Stepanenko, J. Wicha*

Enantioselective Total Synthesis of a *trans*-Hydrindane Rings/Side-Chain Building-Block of Vitamin D – Asymmetric Induction in an Acid-Catalyzed Conjugate-Addition Reaction

Keywords: Total synthesis / Vitamin D / Diastereoselectivity / Induced diastereoselectivity / Asymmetric synthesis

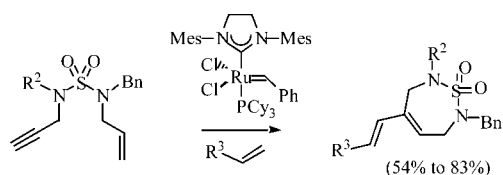


800 S. S. Salim, R. K. Bellingham, R. C. D. Brown*



One-Pot Ring-Closing Metathesis-Alkene Cross Metathesis Reactions of Sulfamide-Linked Enynes

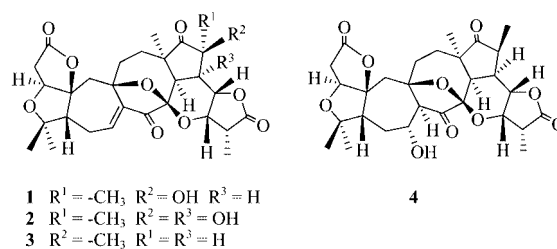
Keywords: Sulfamides / Enynes / Domino reactions / Dienes ligands / Metathesis



807 R. Li, Y. Shen, W. Xiang, H. Sun*

Four Novel Nortriterpenoids Isolated from *Schisandra henryi* var. *yunnanensis*

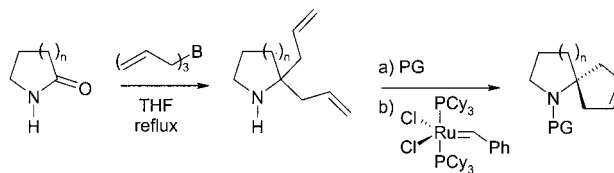
Keywords: Nortriterpenoids / Henridilactones / NMR spectroscopy / Natural products / Structure elucidation



812 P. Niecypor, J. C. Mol,* N. B. Bespalova, Y. N. Bubnov*

Synthesis of Nitrogen-Containing Spiro Compounds from Lactams by Allylboration and Subsequent Ring-Closing Metathesis

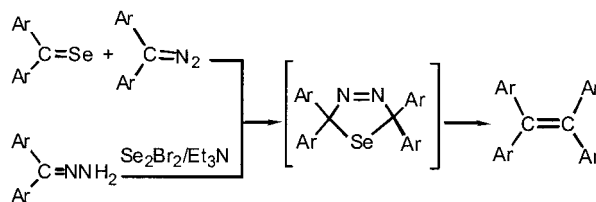
Keywords: Lactams / Boron / Nitrogen heterocycles / Ring-closing metathesis / Spiro compounds



820 K. Okuma,* K. Kojima, K. Oyama, K. Kubo, K. Shioji

Selenobenzophenones and Diazoalkanes: Isolation of Tetraarylethylenes by the Reaction of Benzophenone Hydrazones with Diselenium Dibromide

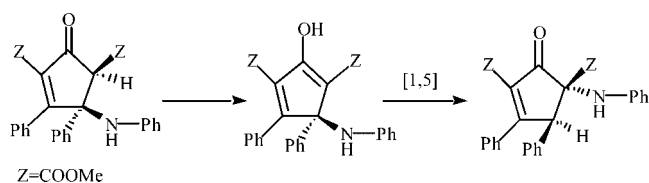
Keywords: Selenium / Ketones / Arylethylenes / Olefins / Diazoalkanes



826 K. Yamaguchi, C. Kai, Y. Yoshitake,
K. Harano*



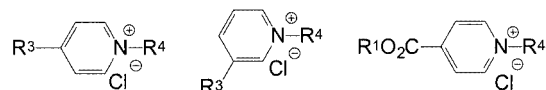
Another Aspect of the Reaction Behavior of Cyclopentadienones: 1,5-Sigmatropic Rearrangement of the 1,4-Addition Products of Amines



Keywords: Amines / Cyclopentadienones / Pericyclic reactions / Reaction mechanisms

835 R. Hulst,* I. Muizebelt, P. Oosting,
C. van der Pol, A. Wagenaar, J. Šmisterová,
E. Bulten, C. Driessen, D. Hoekstra,
J. B. F. N. Engberts*

Sunfish Amphiphiles: Conceptually New Carriers for DNA Delivery



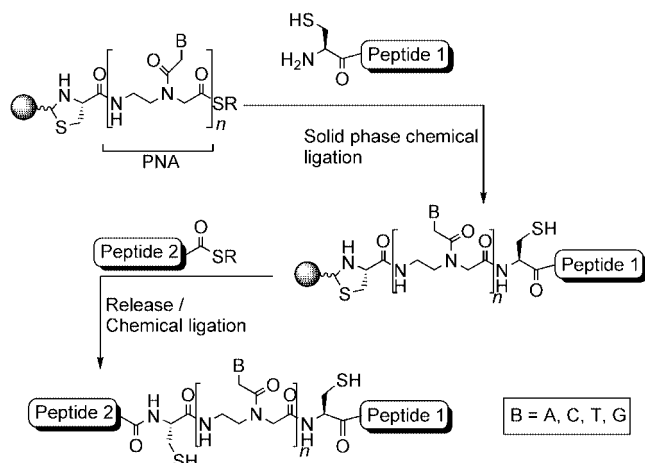
R^1/R^4 : C_{4:0}, C_{6:0}, C_{8:0}, C_{10:0}, C_{12:0}, C_{14:0}, C_{14:1}, C_{16:0},
C_{16:1}, C_{18:0}, C_{18:1}
 R^3 : C_{5:0}, C_{7:0}, C_{9:0}, C_{11:0}, C_{13:0}, C_{15:0}, C_{15:1}, C_{17:0}, C_{17:1},
C_{19:0}, C_{19:1}

Keywords: Amphiphiles / Controlled release / DNA / In vitro transfection / Vesicles

850 M. C. de Koning, D. V. Filippov,
G. A. van der Marel, J. H. van Boom,*
M. Overhand*



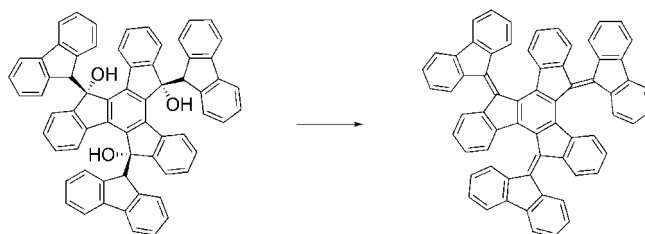
Synthesis of Peptide-PNA-Peptide Conjugates by Semi-Solid-Phase Chemical Ligation Combined with Deactivation/Capture of Excess Reactants



Keywords: Capture-release reactions / Native chemical ligation / Peptide nucleic acids / Peptides / Solid-phase synthesis

858 M. Ruiz, B. Gómez-Lor, A. Santos,
A. M. Echavarren*

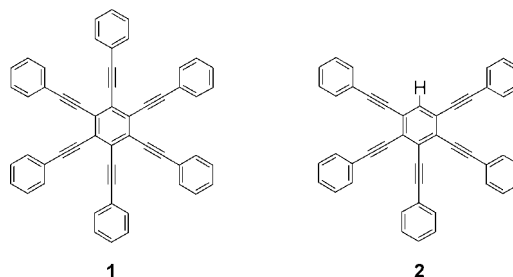
Overcrowded 5,10,15-Trisubstituted Derivatives: Synthesis of 5,10,15-Tri(flourenylidene)truxene



Keywords: Arenes / Strained molecules / Truxenes / Isomerization

867 J. Nierle, D. Barth, D. Kuck*

Pentakis(phenylethynyl)benzene and Hexakis(phenylethynyl)benzene: A Revision Concerning Two Far Too Similar Prototype Hydrocarbons

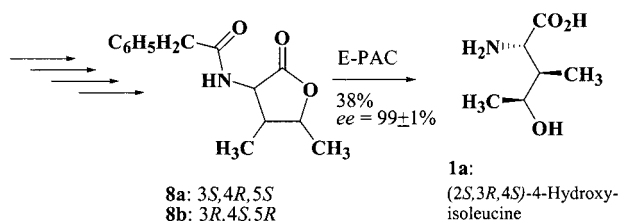


Keywords: Alkynes / C–C coupling / Dehalogenation / Ethynylbenzenes / Palladium

873 V. Rolland-Fulcrand,* M. Rolland,
M.-L. Roumestant, J. Martinez

Chemoenzymatic Synthesis of Enantiomerically Pure (2*S*,3*R*,4*S*)-4-Hydroxyisoleucine, an Insulinotropic Amino Acid Isolated from Fenu-greek Seeds

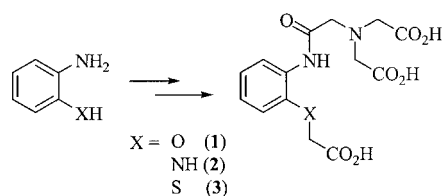
Keywords: Amino acids / Asymmetric synthesis / Bioconversions / Insulinotropic agent / Aminooxydases / Penicillin acylase



878 S. G. Gouin, E. Benoist, J.-F. Gestin,
J. C. Meslin, D. Deniaud*

An Efficient Route for the Synthesis of New Analogues of Polyaminocarboxylic Acid Incorporating O, N, and S Atoms

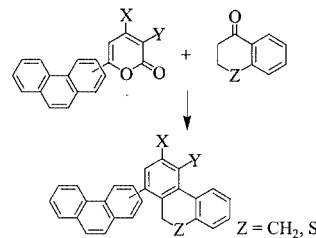
Keywords: Carboxylic acids / Chelating agents / O, N, S ligands / Synthesis design



886 A. Sharon, P. R. Maulik, C. Vithana,
Y. Ohashi, V. Ji Ram*

Synthesis of Biphenanthrenyls and Role of C–H···X Noncovalent Interactions in Conformational Control

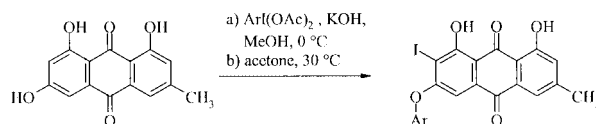
Keywords: Lactones / Biaryls / Conformational analysis



894 K. S. Daub, B. Habermann, T. Hahn,
L. Teich, K. Eger*

Synthesis of 3-Aryloxy-2-iodoemodines by Oxidation of Emodin with (Diacetoxyiodo)-arenes

Keywords: Oxidation / Natural products / Ylides / Iodine / Emodin



899 T. Asao, S. Itô, I. Murata*

Tetsuo Nozoe (1902–1996)

Keywords: Reminiscence

