

Tetrahedron Letters Vol. 50, No. 36, 2009

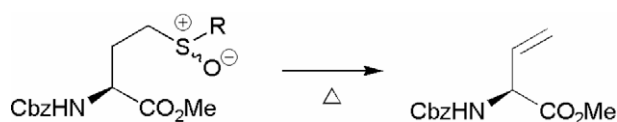
Contents

COMMUNICATIONS

Preparation of vinylglycines by thermolysis of homocysteine sulfoxides

pp 5067–5070

Sravan Kumar Patel, Timothy E. Long *



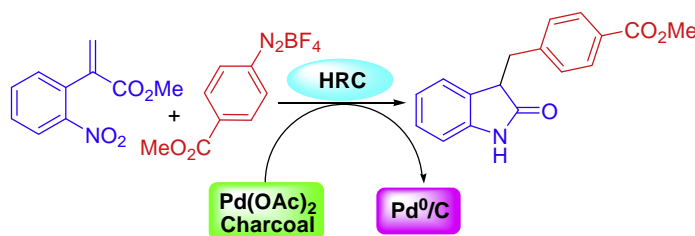
R = Me, Et, *n*-Pr, *i*Pr, *n*-But, *n*-Hex, *n*-Oct, *n*-Dec,
Bn, Ph, *p*-MeOPh, *p*-ClPh, *p*-NO₂Ph, *o*-NO₂Ph



Heterogeneous palladium multi-task catalyst for sequential Heck-reduction–cyclization (HRC) reactions: influence of the support

pp 5071–5074

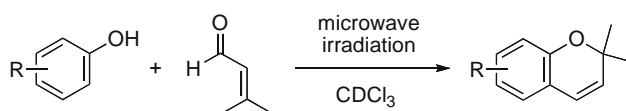
Oier Ibarguren, Cécile Zakri, Eric Fouquet, François-Xavier Felpin *



Direct, regioselective synthesis of 2,2-dimethyl-2H-chromenes. Total syntheses of octandrenolone and precocenes I and II

pp 5075–5079

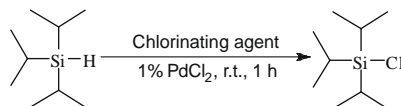
Marc J. Adler *, Steven W. Baldwin



Hexachloroethane: a highly efficient reagent for the synthesis of chlorosilanes from hydrosilanes

pp 5080–5082

Veerachai Pongkittiphan, Emmanuel A. Theodorakis, Warinthorn Chavasiri *

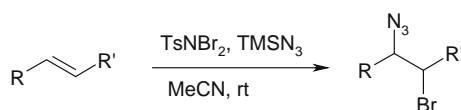


A new and efficient method is disclosed for the transformation of hydrosilanes into chlorosilanes in excellent yields under mild conditions using hexachloroethane as the chlorinating agent and palladium(II) chloride as the catalyst.

Facile generation of vicinal bromoazides from olefins using TMSN₃ and TsNBr₂ without any catalyst

pp 5083–5087

Indranirekha Saikia, Prodeep Phukan *

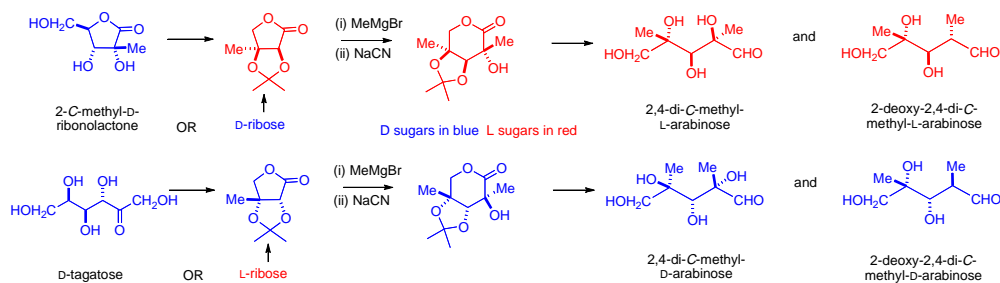


R = Aryl, H
R' = Aryl, alkyl, COR, COOR

Doubly carbon-branched pentoses: synthesis of both enantiomers of 2,4-di-C-methyl arabinose and 2-deoxy-2,4-di-C-methyl arabinose using only acetone protection

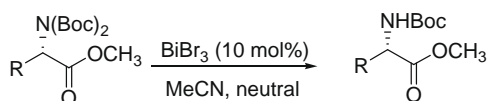
pp 5088–5093

K. Victoria Booth, Sarah F. Jenkinson, Daniel Best, Fernando Fernández Nieto, Ramón J. Estévez, Mark R. Wormald, Alexander C. Weymouth-Wilson, George W. J. Fleet *

**Efficient and selective cleavage of the *t*-butoxycarbonyl group from di-*t*-butylimidodicarbonate using catalytic bismuth(III) bromide in acetonitrile**

pp 5094–5097

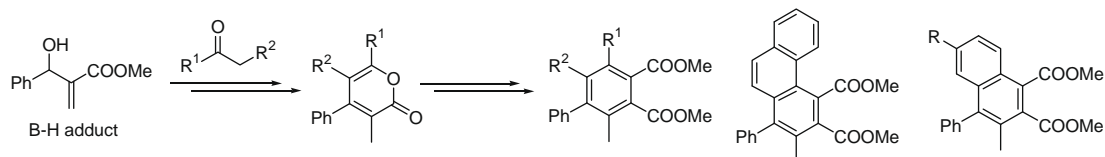
Jianlong Zheng, Bialin Yin, Wenming Huang, Xiaopeng Li, Hequan Yao, Zhaogui Liu, Jiancun Zhang, Sheng Jiang *



Expedient synthesis of highly substituted α -pyrones from Baylis–Hillman adducts and their conversion to poly-substituted aromatics

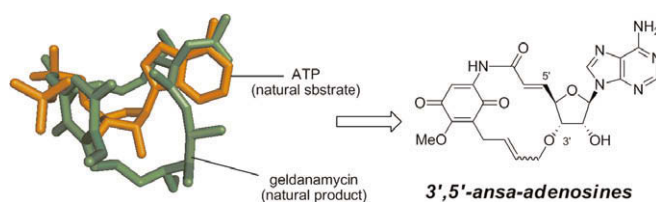
pp 5098–5101

Eun Sun Kim, Ko Hoon Kim, Sung Hwan Kim, Jae Nyoung Kim *

**Design and synthesis of 3',5'-ansa-adenosines as potential Hsp90 inhibitors**

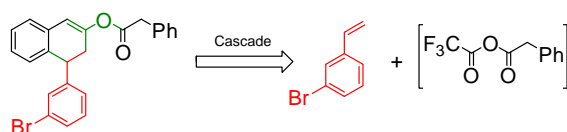
pp 5102–5106

Kazuhiro Muranaka, Satoshi Ichikawa, Akira Matsuda *

**New approach to 4-phenyl- β -aminotetralin from 4-(3-halophenyl)tetralen-2-ol phenylacetate**

pp 5107–5109

Adam S. Vincek, Raymond G. Booth *

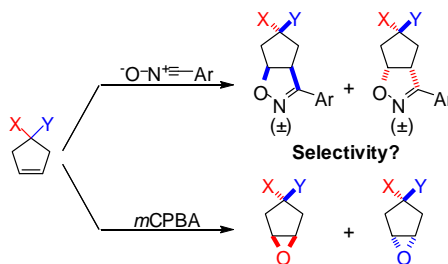


Mixed trifluoroacetyl phenylacetyl anhydride and 3-halostyrenes (fluoro, chloro, and bromo), or vinylcycloalkanes (cyclohexyl and cyclooctyl), undergo cascade Friedel–Crafts cycli-acylalkylation, enolization, and O-acylation for 4-substituted tetralen-2-ol phenylacetates, in good yields.

**Phenylsulfonyl as a directing group for nitrile oxide cycloadditions and *m*CPBA epoxidations**

pp 5110–5112

Jeffrey D. Butler, Michael B. Donald, Zhensheng Ding, James C. Fetters, Mark J. Kurth *



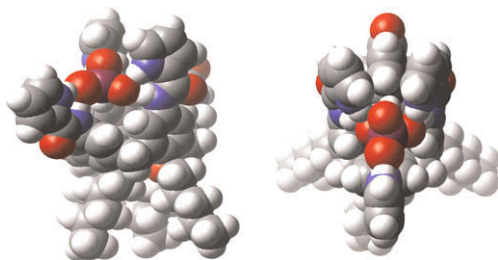
An unexpected facial selectivity trend in the nitrile oxide cycloaddition and *m*CPBA epoxidation reactions of 4,4-disubstituted cyclopentenes is reported.



Pyrrolamidocalix[4]arenes: new receptors for anion recognition

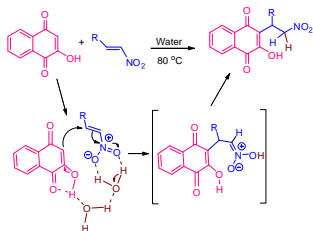
pp 5113–5115

Francesco Troisi, Carmine Gaeta, Teresa Pierro, Placido Neri *

**Facile and highly efficient method for the C-alkylation of 2-hydroxy-1,4-naphthoquinone to nitroalkenes under catalyst-free 'on water' conditions**

pp 5116–5119

Deepak Kumar Barange, Veerababurao Kavala, B. Rama Raju, Chun-Wei Kuo, Chi Tseng, Yu-Chen Tu, Ching-Fa Yao *

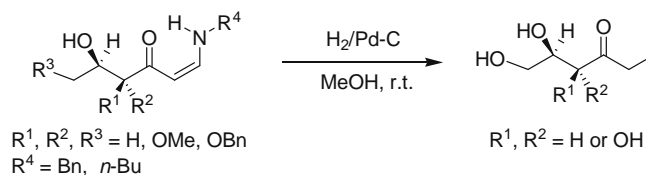


C-Alkylation of 2-hydroxy-1,4-naphthoquinone to various nitroolefins was achieved under catalyst-free employing 'on water' conditions. The mechanism for the formation can be explained on the basis of dual activation of nitroalkene and 2-hydroxy-1,4-naphthoquinones via hydrogen bonding. Simple reaction conditions, high yields of the products, and environmentally benign medium are attractive features of this method.

**Hydrodeamination of β -enamino ketones to 1,2-dideoxy-D-threo-3-hexulose via palladium**

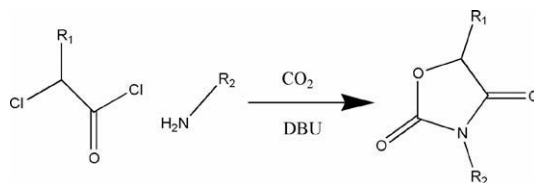
pp 5120–5122

Zi-Ping Lin, Hui-Chang Lin *, Hsu-Hsuan Wu, Hsiu-Wen Chou, Shao-Kai Lin, Kuan-Chin Sung, Fung Fuh Wong

**Synthesis of 3-alkyloxazolidin-2,4-diones using 2-chloroacetamides, carbon dioxide and 1,8-diazabicyclo[5.4.0]undecene (DBU)**

pp 5123–5125

Guido Galliani, Bruno Rindone, Francesco Saliu *

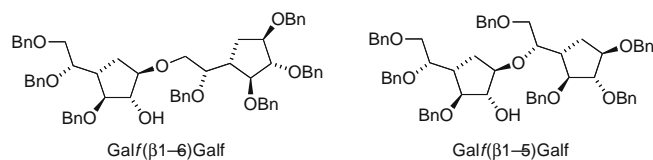


Diazabicyclo[5.4.0]undecene (DBU) reacts with carbon dioxide and N-substituted-2-chloroacetamides in a very simple one-step procedure, to give the corresponding 3-substituted oxazolidin-2,4-diones in excellent yields.

Synthesis of carbadisaccharide mimics of galactofuranosides

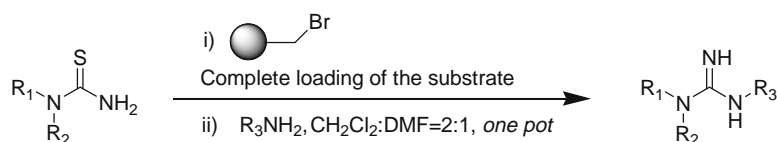
pp 5142–5144

Jens Frigell, Ian Cumpstey *

**A facile and practical one-pot ‘catch and release’ synthesis of substituted guanidines**

pp 5145–5148

Ying Wang *, Daryl R. Sauer, Stevan W. Djuric

**Asymmetric intermolecular cyclopropanation of alkenes by diazoketones catalyzed by Halterman iron porphyrins**

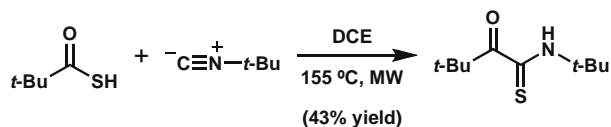
pp 5149–5151

Irène Nicolas, Thierry Roisnel, Paul Le Maux, Gérard Simonneaux *

**Coupling reactions of hindered isonitriles and hindered alkyl thioacids: mechanistic studies**

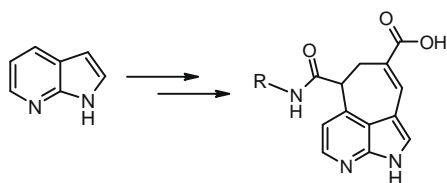
pp 5152–5155

Jennifer L. Stockdill, Xiangyang Wu, Samuel J. Danishefsky *



Multistep synthesis of a new tricyclic azaindole-based scaffold

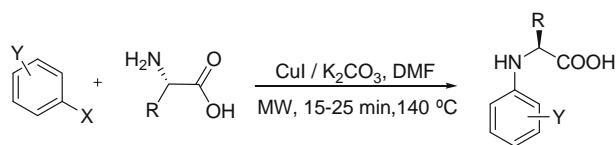
pp 5156–5158

Mauro Angiolini^{*}, Andrea Lombardi Borgia, Tiziano Bandiera

In this Letter a multistep synthesis of a functionalized tricyclic scaffold containing the 7-azaindole core is described.

Copper-catalyzed C–N coupling reactions of aryl halides with α -amino acids under focused microwave irradiation

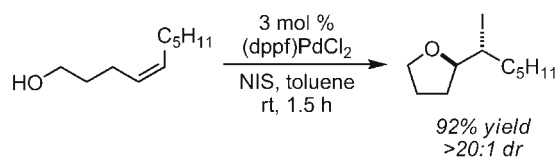
pp 5159–5161

Nasani Narendar, Sivan Velmathi^{*}

We have developed an efficient method for the preparation of enantiopure *N*-aryl- α -amino acids via copper-catalyzed *N*-arylation of α -amino acids and aryl halides under microwave irradiation. This protocol only needs less than 30 min to obtain the products, which are far superior to those obtained under conventional heating.

Iodoetherification of unactivated alkenes catalyzed by diphosphine palladium(II) complexes

pp 5162–5164

Todd A. Doroski, Matthew R. Cox, Jeremy B. Morgan^{*}

*Corresponding author

Supplementary data available via ScienceDirect

COVER

The first synthesis of free sugars with two carbon branches on a monosaccharide –still soluble in water.

Tetrahedron Letters **2009**, 50, 5088–5093.

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