

### The Journal of Organic Chemistry MARCH 15, 2013 VOLUME 78, NUMBER 6 pubs.acs.org/joc





March 15, 2013 Volume 78, Issue 6 Pages 2149-2812

#### Perspective

#### Osmium-Catalyzed Oxidative Cyclization of Dienes and Their Derivatives

Ben S. Pilgrim and Timothy J. Donohoe

pp 2149-2167

**Publication Date (Web):** January 31, 2013 (Perspective)

**DOI:** 10.1021/jo302719y

Section:

Heterocyclic Compounds (One Hetero Atom)

#### **JOCSynopsis**

### Development of Intramolecular Vicinal Diamination of Alkenes: From Palladium to Bromine Catalysis

Kilian Muñiz and Claudio Martínez

pp 2168-2174

Publication Date (Web): February 25, 2013 (JOCSynopsis)

**DOI:** 10.1021/jo302472w

Section:

Physical Organic Chemistry

#### Featured Articles

## Synthesis, Structural Elucidation, And Biochemical Analysis of Immunoactive Glucuronosyl Diacylglycerides of Mycobacteria and Corynebacteria

Benjamin Cao, Xingqiang Chen, Yoshiki Yamaryo-Botte, Mark B. Richardson, Kirstee L. Martin, George N. Khairallah, Thusita W.T. Rupasinghe, Roisin M. O'Flaherty, Richard A.J. O'Hair, Julie E. Ralton, Paul K. Crellin, Ross L. Coppel, Malcolm J. McConville, and Spencer J. Williams

pp 2175-2190

Publication Date (Web): January 23, 2013 (Featured Article)

**DOI:** 10.1021/jo302508e

Section:

## Influence of O6 in Mannosylations Using Benzylidene Protected Donors: Stereoelectronic or Conformational Effects?

Tobias Gylling Frihed, Marthe T. C. Walvoort, Jeroen D. C. Codée, Gijs A. van der Marel, Mikael Bols, and Christian Marcus Pedersen pp 2191–2205

Publication Date (Web): January 21, 2013 (Featured Article)

**DOI:** 10.1021/jo302455d

Section: Carbohydrates

### Double Alkylene-Strapped Diphenylanthracene as a Photostable and Intense Solid-State Blue-Emitting Material

Yutaka Fujiwara, Ryota Ozawa, Daiki Onuma, Kengo Suzuki, Kenji Yoza, and Kenji Kobayashi pp 2206–2212

Publication Date (Web): January 16, 2013 (Featured Article)

**DOI:** 10.1021/jo302621k

Section:

Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers

### Amphidinolide B: Total Synthesis, Structural Investigation, and Biological Evaluation

Liang Lu, Wei Zhang, Sangkil Nam, David A. Horne, Richard Jove, and Rich G. Carter pp 2213–2247

Publication Date (Web): February 13, 2013 (Featured Article)

**DOI:** 10.1021/jo3026077

Section:

Heterocyclic Compounds (More than One Hetero Atom)

### Left-Handed Helical Preference in an Achiral Peptide Chain Is Induced by an I-Amino Acid in an N-Terminal Type II β-Turn

Matteo De Poli, Marta De Zotti, James Raftery, Juan A. Aguilar, Gareth A. Morris, and Jonathan Clayden

pp 2248-2255

Publication Date (Web): January 14, 2013 (Featured Article)

**DOI:** 10.1021/jo302705k

Section:

Physical Organic Chemistry

## Catalytic Asymmetric Enyne Addition to Aldehydes and Rh(I)-Catalyzed Stereoselective Domino Pauson-Khand/[4 + 2] Cycloaddition

Wei Chen, Jia-Hui Tay, Jun Ying, Xiao-Qi Yu, and Lin Pu pp 2256–2265

Publication Date (Web): January 17, 2013 (Featured Article)

**DOI:** 10.1021/jo3026065

### Twisted Polycyclic Arenes by Intramolecular Scholl Reactions of C3-Symmetric Precursors

Anirban Pradhan, Pierre Dechambenoit, Harald Bock, and Fabien Durola pp 2266–2274

Publication Date (Web): February 1, 2013 (Featured Article)

**DOI:** 10.1021/jo3027752

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

### Regioselective Opening of *myo*-Inositol Orthoesters: Mechanism and Synthetic Utility

Himali Y. Godage, Andrew M. Riley, Timothy J. Woodman, Mark P. Thomas, Mary F. Mahon, and Barry V. L. Potter pp 2275–2288

**Publication Date (Web):** February 25, 2013 (Featured Article)

**DOI:** 10.1021/jo3027774

ACS AuthorChoice

Section: Carbohydrates

#### **Articles**

## Catalytic Enantioselective Vinylogous Mukaiyama—Michael Addition of 2-Silyloxyfurans to Cyclic Unsaturated Oxo Esters

Xavier Jusseau, Pascal Retailleau, Laurent Chabaud, and Catherine Guillou pp 2289–2300

**Publication Date (Web):** February 14, 2013 (Article)

**DOI:** 10.1021/jo3020648

Section:

Heterocyclic Compounds (One Hetero Atom)

## Oxidation of Primary Amines to Oximes with Molecular Oxygen using 1,1-Diphenyl-2-picrylhydrazyl and WO<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> as Catalysts

Ken Suzuki, Tomonari Watanabe, and Shun-Ichi Murahashi pp 2301–2310

**Publication Date (Web):** February 26, 2013 (Article)

**DOI:** 10.1021/jo302262a

Section:

General Organic Chemistry

## Memory of Chirality (MOC) Concept in Imino-Aldol Reaction: Enantioselective Synthesis of $\alpha,\beta$ -Diamino Esters and Aziridines

Manas K. Ghorai, Koena Ghosh, A. K. Yadav, Y. Nanaji, Sandipan Halder, and Masthanvali Sayyad

pp 2311-2326

**Publication Date (Web):** January 15, 2013 (Article)

**DOI:** 10.1021/jo302018a

Section:

General Organic Chemistry

### Acid-Catalyzed Nucleophilic Additions to Carbonyl Groups: Is the Accepted Mechanism the Rule or an Exception?

Lino Reyes, Inés Nicolás-Vázquez, Nelaine Mora-Diez, and J. Raul Alvarez-Idaboy pp 2327–2335

**Publication Date (Web):** February 18, 2013 (Article)

**DOI:** 10.1021/jo302390r

Section:

Physical Organic Chemistry

#### Selectivity Switch in the Catalytic Functionalization of Nonprotected Carbohydrates: Selective Synthesis in the Presence of Anomeric and Structurally Similar Carbohydrates under Mild Conditions

Wataru Muramatsu and Yuki Takemoto pp 2336–2345

Publication Date (Web): January 29, 2013 (Article)

**DOI:** 10.1021/jo3024279

Section: Carbohydrates

#### Step-Economical Access to Valuable Weinreb Amide 2,5-Disubstituted Pyrrolidines by a Sequential One-Pot Two-Directional Cross-Metathesis/Cyclizing Aza-Michael Process

Hamza Boufroura, Marc Mauduit, Emmanuelle Drège, and Delphine Joseph pp 2346–2354

Publication Date (Web): February 10, 2013 (Article)

**DOI:** 10.1021/jo302435a

Section:

Heterocyclic Compounds (One Hetero Atom)

#### Trezimides and Tennimides: New Imide-Based Macrocycles

Pavle Mocilac and John F. Gallagher

pp 2355-2361

Publication Date (Web): February 1, 2013 (Article)

**DOI:** 10.1021/jo302448h

Section:

Heterocyclic Compounds (More than One Hetero Atom)

## Organocatalytic Asymmetric Michael Addition of Aliphatic Aldehydes to Indolylnitroalkenes: Access to Contiguous Stereogenic Tryptamine Precursors

Jian Chen, Zhi-Cong Geng, Ning Li, Xiao-Fei Huang, Feng-Feng Pan, and Xing-Wang Wang pp 2362–2372

Publication Date (Web): February 14, 2013 (Article)

**DOI:** 10.1021/jo3024945

Section:

Heterocyclic Compounds (One Hetero Atom)

#### Discrimination of α-Amino Acids Using Green Tea Flavonoid (–)-Epigallocatechin Gallate as a Chiral Solvating Agent

Divya Kumari, Prasun Bandyopadhyay, and N. Suryaprakash

pp 2373-2378

**Publication Date (Web):** February 11, 2013 (Article)

**DOI:** 10.1021/jo3025016

Section:

**Biochemical Methods** 

### Hydrolytic and Aminolytic Kinetic Resolution of Terminal Bis-Epoxides

Jevgenia Bredihhina, Piret Villo, Karlis Andersons, Lauri Toom, and Lauri Vares pp 2379–2385

Publication Date (Web): January 30, 2013 (Article)

**DOI:** 10.1021/jo3024335

Section:

Heterocyclic Compounds (One Hetero Atom)

#### Zn(OTf)<sub>2</sub>-Promoted Chemoselective Esterification of Hydroxyl Group Bearing Carboxylic Acids

Narsimha Mamidi and Debasis Manna

pp 2386-2396

**Publication Date (Web):** January 25, 2013 (Article)

**DOI:** 10.1021/jo302502r

Section:

General Organic Chemistry

#### Fluorescence of Diimidazo[1,2-a:2',1'-c]quinoxalinium Salts Under Various Conditions

Shoji Matsumoto, Hajime Abe, and Motohiro Akazome

pp 2397-2404

Publication Date (Web): February 26, 2013 (Article)

**DOI:** 10.1021/jo302531g

Section:

Physical Organic Chemistry

## Catalytic C-H Activation/C-C Coupling Reaction: DFT Studies on the Mechanism, Solvent Effect, and Role of Additive

Lei Zhang and De-Cai Fang

pp 2405-2412

**Publication Date (Web):** February 18, 2013 (Article)

**DOI:** 10.1021/jo302567s

Section:

Physical Organic Chemistry

## Gold Catalysis: Regio- and Stereoselective Total Synthesis of Xyloketals D and G and the Related Natural Product Alboatrin

Biswajit Panda and Tarun K. Sarkar

pp 2413-2421

Publication Date (Web): February 21, 2013 (Article)

**DOI:** 10.1021/jo302545n

Section:
Biomolecules and Their Synthetic Analogs

#### **Enantioselective Synthesis of (+)-Malbrancheamide B**

Stephen W. Laws and Jonathan R. Scheerer

pp 2422-2429

Publication Date (Web): January 29, 2013 (Article)

**DOI:** 10.1021/jo3026059

Section: Alkaloids

#### Heterobimetallic Pd-Sn Catalysis: Michael Addition Reaction with C-, N-, O-, and S-Nucleophiles and in Situ Diagnostics

Debjit Das, Sanjay Pratihar, and Sujit Roy

pp 2430-2442

Publication Date (Web): February 20, 2013 (Article)

**DOI:** 10.1021/jo302643v

Section:

Physical Organic Chemistry

### Total Synthesis, Structural Elucidation, and Structure—Cytotoxic Activity Relationship of (-)-Gummiferol

Hiroyoshi Takamura, Hiroko Wada, Nan Lu, Osamu Ohno, Kiyotake Suenaga, and Isao Kadota pp 2443–2454

**Publication Date (Web):** February 1, 2013 (Article)

**DOI:** 10.1021/jo302665c

Section:

Biomolecules and Their Synthetic Analogs

### Synthesis of Penicillenol C<sub>1</sub> and of a Bis-Azide Analogue for Photoaffinity Labeling

Karl Kempf, Aruna Raja, Florenz Sasse, and Rainer Schobert pp 2455–2461

Publication Date (Web): February 25, 2013 (Article)

**DOI:** 10.1021/jo3026737

Section:

Biomolecules and Their Synthetic Analogs

### Why Do Five-Membered Heterocyclic Compounds Sometimes Not Participate in Polar Diels-Alder Reactions?

Luis R. Domingo, Patricia Pérez, and Daniela E. Ortega

pp 2462-2471

**Publication Date (Web):** January 25, 2013 (Article)

**DOI:** 10.1021/jo3027017

Section:

Physical Organic Chemistry

#### Coplanar Bithiazole-Centered Heterocyclic Aromatic Fluorescent Compounds Having Different Donor/Acceptor Terminal Groups

Tao Tao, Yu-Xin Peng, Wei Huang, and Xiao-Zeng You pp 2472–2481

Publication Date (Web): February 1, 2013 (Article)

**DOI:** 10.1021/jo302706t

Section:

Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers

## Tuning of Excited-State Intramolecular Proton Transfer (ESIPT) Fluorescence of Imidazo[1,2-a]pyridine in Rigid Matrices by Substitution Effect

Toshiki Mutai, Hirotaka Sawatani, Toshihide Shida, Hideaki Shono, and Koji Araki pp 2482–2489

Publication Date (Web): February 13, 2013 (Article)

**DOI:** 10.1021/jo302711t

Section:

Physical Organic Chemistry

### Diastereoselective Bromocyclization of *O*-Allyl-*N*-tosylhydroxylamines

Boris Egart, Dieter Lentz, and Constantin Czekelius pp 2490–2499

**Publication Date (Web):** January 25, 2013 (Article)

**DOI:** 10.1021/jo3026725

Section:

Heterocyclic Compounds (More than One Hetero Atom)

### Asymmetric Syntheses of APTO and AETD: the β-Amino Acid Fragments within Microsclerodermins C, D, and E

Stephen G. Davies, Ai M. Fletcher, Emma M. Foster, James A. Lee, Paul M. Roberts, and James E. Thomson pp 2500–2510

Publication Date (Web): February 4, 2013 (Article)

**DOI:** 10.1021/jo302731m

Section:

Amino Acids, Peptides, and Proteins

# Access to 2,6-Disubstituted Piperidines: Control of the Diastereoselectivity, Scope, and Limitations. Applications to the Stereoselective Synthesis of (–)-Solenopsine A and Alkaloid (+)-241D

Isabelle Abrunhosa-Thomas, Aurélie Plas, Alexandre Vogrig, Nishanth Kandepedu, Pierre Chalard, and Yves Troin

pp 2511-2526

Publication Date (Web): February 11, 2013 (Article)

**DOI:** 10.1021/jo302712f

Section: Alkaloids

### Three Competitive Transition States at the Glycosidic Bond of Sucrose in Its Acid-Catalyzed Hydrolysis

Shinichi Yamabe, Wei Guan, and Shigeyoshi Sakaki

pp 2527-2533

Publication Date (Web): February 1, 2013 (Article)

**DOI:** 10.1021/jo3027565

Section:

Physical Organic Chemistry

### Regioselective Recognition of a [60]Fullerene-Bisadduct by Cyclodextrin

Atsushi Ikeda, Michiko Ishikawa, Ryota Aono, Jun-ichi Kikuchi, Motofusa Akiyama, and Wataru Shinoda pp 2534–2541

Publication Date (Web): February 7, 2013 (Article)

**DOI:** 10.1021/jo3027609

Section:

Physical Organic Chemistry

## Synthesis and Spectroscopic and Electrochemical Properties of an Axially Symmetric Fullerene—Porphyrin Dyad with a Rigid Pyrrolo[3,4-c]pyrrole Spacer

Alexander S. Konev, Alexander F. Khlebnikov, Tamara G. Nikiforova, Alexander A. Virtsev, and Holm Frauendorf

pp 2542-2552

Publication Date (Web): February 11, 2013 (Article)

**DOI:** 10.1021/jo302763a

Section:

Heterocyclic Compounds (More than One Hetero Atom)

#### **Total Synthesis and Configurational Assignment of the Marine Natural Product Haliclamide**

Bernhard Pfeiffer, Sandra Speck-Gisler, Luzi Barandun, Ursula Senft, Claire de Groot, Irène Lehmann, Walter Ganci, Jürg Gertsch, and Karl-Heinz Altmann pp 2553–2563

Publication Date (Web): February 7, 2013 (Article)

**DOI:** 10.1021/jo3027643

Section:

Biomolecules and Their Synthetic Analogs

## IMDAF/Aromatization Path of Halogenated Furylacrylamides and Furylpropiolamides to Dihydroisoquinolin-1(2H)-ones

Olaia Nieto-García and Ricardo Alonso pp 2564–2570

Publication Date (Web): February 4, 2013 (Article)

**DOI:** 10.1021/jo302750s

Section: Carbohydrates

## Kinetic and Dynamic Kinetic Resolution of Secondary Alcohols with Ionic-Surfactant-Coated *Burkholderia cepacia* Lipase: Substrate Scope and Enantioselectivity

Cheolwoo Kim, Jusuk Lee, Jeonghun Cho, Yeonock Oh, Yoon Kyung Choi, Eunjeong Choi, Jaiwook Park, and Mahn-Joo Kim pp 2571–2578

Publication Date (Web): February 13, 2013 (Article)

**DOI:** 10.1021/jo3027627

Section:

Enzymes

## Synthesis of 1-Aminoisoquinolines by Gold(III)-Mediated Domino Reactions from 2-Alkynylbenzamides and Ammonium Acetate

Yuhua Long, Zhigang She, Xiaochen Liu, and Yu Chen pp 2579–2588

Publication Date (Web): February 25, 2013 (Article)

**DOI:** 10.1021/jo302794z

Section: Heterocyclic Compounds (One Hetero Atom)

#### Synthesis of 4-Aminophthalimide and 2,4-Diaminopyrimidine *C*-Nucleosides as Isosteric Fluorescent DNA Base Substitutes

Michael Weinberger, Falko Berndt, Rainer Mahrwald, Nikolaus P. Ernsting, and Hans-Achim Wagenknecht pp 2589–2599

Publication Date (Web): February 5, 2013 (Article)

**DOI:** 10.1021/jo302768f

Section: Carbohydrates

## Tetrahydro-β-carboline-Based Spirocyclic Lactam as Type II' β-Turn: Application to the Synthesis and Biological Evaluation of Somatostatine Mimetics

Giordano Lesma, Roberto Cecchi, Alfredo Cagnotto, Marco Gobbi, Fiorella Meneghetti, Manuele Musolino, Alessandro Sacchetti, and Alessandra Silvani pp 2600–2610

Publication Date (Web): February 14, 2013 (Article)

**DOI:** 10.1021/jo302737j

Section:

Amino Acids, Peptides, and Proteins

#### Synthesis of Cyclopentadiene-Fused Chromanones via One-Pot Multicomponent Reactions

Mehdi Ghandi, Ali-Tabatabaei Ghomi, and Maciej Kubicki pp 2611–2616

Publication Date (Web): February 6, 2013 (Article)

**DOI:** 10.1021/jo302790y

Section:

Heterocyclic Compounds (One Hetero Atom)

## Enantioselective Synthesis of 4,5-Dihydropyrroles via Domino Ring-Opening Cyclization (DROC) of *N*-Activated Aziridines with Malononitrile

Manas K. Ghorai and Deo Prakash Tiwari pp 2617–2625

Publication Date (Web): February 7, 2013 (Article)

**DOI:** 10.1021/jo302815m

Section:

### **Understanding the Reactivity of Enol Ether Radical Cations: Investigation of Anodic Four-Membered Carbon Ring Formation**

Yusuke Yamaguchi, Yohei Okada, and Kazuhiro Chiba pp 2626–2638

Publication Date (Web): February 26, 2013 (Article)

**DOI:** 10.1021/jo3028246

Section:

Physical Organic Chemistry

#### Iron-catalyzed Cross-Coupling of Electron-Deficient Heterocycles and Quinone with Organoboron Species via Innate C-H Functionalization: Application in Total Synthesis of Pyrazine Alkaloid Botryllazine A

Parvinder Pal Singh, Sravan Kumar Aithagani, Mahipal Yadav, Varun Pratap Singh, and Ram A. Vishwakarma

pp 2639-2648

Publication Date (Web): February 19, 2013 (Article)

**DOI:** 10.1021/jo302797r

Section: Alkaloids

#### **Electrofugalities of 1,3-Diarylallyl Cations**

Konstantin Troshin and Herbert Mayr

pp 2649-2660

Publication Date (Web): January 31, 2013 (Article)

**DOI:** 10.1021/jo302766k

Section:

Physical Organic Chemistry

## Stereoselective Synthesis of Spiropiperidines as BACE-1 Aspartyl Protease Inhibitors via Late Stage N-Arylation of a 1,8-Diazaspiro[4.5]dec-3-en-2-one Pharmacophore

Che-Wah Lee, Ricardo Lira, Jason Dutra, Kevin Ogilvie, Brian T. O'Neill, Michael Brodney, Christopher Helal, Joseph Young, Erik Lachapelle, Subas Sakya, and John C. Murray pp 2661–2669

Publication Date (Web): February 25, 2013 (Article)

**DOI:** 10.1021/jo400016m

Section:

Heterocyclic Compounds (One Hetero Atom)

## Unexpected Formation of N-(1-(2-Aryl-hydrazono)isoindolin-2-yl)benzamides and Their Conversion into 1,2-(Bis-1,3,4-oxadiazol-2-yl)benzenes

Codruţa C. Paraschivescu, Mihaela Matache, Cristian Dobrotă, Alina Nicolescu, Cătălin Maxim, Călin Deleanu, Ileana C. Fărcăşanu, and Niculina D. Hădade pp 2670–2679

Publication Date (Web): February 11, 2013 (Article)

**DOI:** 10.1021/jo400023z

Section:

Heterocyclic Compounds (More than One Hetero Atom)

#### Notes

### Stereoselective Synthesis of β-Glycosyl Thiols and Their Synthetic Applications

Manas Jana and Anup Kumar Misra pp 2680–2686

Publication Date (Web): February 20, 2013 (Note)

**DOI:** 10.1021/jo302115k

Section: Carbohydrates

#### **Cu(I)-Catalyzed Domino Reaction of 3-Cyclopropylideneprop-2-en-1-ones**

Maozhong Miao, Jian Cao, Jingjing Zhang, Xian Huang, and Luling Wu pp 2687–2692

Publication Date (Web): February 15, 2013 (Note)

**DOI:** 10.1021/jo302312y

Section:

Heterocyclic Compounds (One Hetero Atom)

### Organocatalytic Direct Asymmetric Crossed-Aldol Reactions of Acetaldehyde in Aqueous Media

Yupu Qiao, Qiankun Chen, Sirong Lin, Bukuo Ni, and Allan D. Headley pp 2693–2697

Publication Date (Web): February 12, 2013 (Note)

**DOI:** 10.1021/jo302442g

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

### Synthesis of Pyrrolin-4-ones by Pt-Catalyzed Cycloisomerization in PEG under Microwaves

Rosella Spina, Evelina Colacino, Bartolo Gabriele, Giuseppe Salerno, Jean Martinez, and

Frédéric Lamaty pp 2698–2702

**Publication Date (Web):** February 1, 2013 (Note)

**DOI:** 10.1021/jo302474r

Section:

Heterocyclic Compounds (One Hetero Atom)

## Synthesis of 7-Oxabicyclo[2.2.1]heptanes and 8-Oxabicyclo[3.2.1]octanes from C-Glycosides via an Intramolecular Cyclization

Wei Zou and Kannan Vembaiyan

pp 2703-2709

Publication Date (Web): February 7, 2013 (Note)

**DOI:** 10.1021/jo3024973

Section: Carbohydrates

#### Palladium-Catalyzed Cyanation of Aryl Halides with CuSCN

Guo-Ying Zhang, Jin-Tao Yu, Mao-Lin Hu, and Jiang Cheng pp 2710–2714

Publication Date (Web): February 7, 2013 (Note)

**DOI:** 10.1021/jo3025829

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

## Amino Acid Building Blocks for Fmoc Solid-Phase Synthesis of Peptides Phosphocholinated at Serine, Threonine, and Tyrosine

Michael F. Albers and Christian Hedberg

pp 2715-2719

Publication Date (Web): February 1, 2013 (Note)

**DOI:** 10.1021/jo302587g

Section:

Amino Acids, Peptides, and Proteins

Arylation, Alkenylation, and Alkylation of 2-Halopyridine N-Oxides with Grignard Reagents: A Solution to the Problem of C2/C6 Regioselective Functionalization of Pyridine Derivatives

Song Zhang, Lian-Yan Liao, Fang Zhang, and Xin-Fang Duan pp 2720–2725

**Publication Date (Web):** February 7, 2013 (Note)

**DOI:** 10.1021/jo302511s

Section:

Heterocyclic Compounds (One Hetero Atom)

## Selectivity of Br/Li Exchange and Deprotonation of 4,4'-Dibromo-3,3'-bithiophene for Synthesis of Symmetrical and Unsymmetrical Dithienoheteroaromatic Rings

Hui Han, Wenling Zhao, Jinsheng Song, Chunli Li, and Hua Wang pp 2726–2730

**Publication Date (Web):** February 4, 2013 (Note)

**DOI:** 10.1021/jo302635y

Section:

Heterocyclic Compounds (More than One Hetero Atom)

# Double-Asymmetric Hydrogenation Strategy for the Reduction of 1,1-Diaryl Olefins Applied to an Improved Synthesis of CuIPhEt, a C<sub>2</sub>-Symmetric N-Heterocyclic Carbenoid

Elizabeth Spahn, Abigail Albright, Michael Shevlin, Larissa Pauli, Andreas Pfaltz, and Robert E. Gawley

pp 2731-2735

**Publication Date (Web):** February 5, 2013 (Note)

**DOI:** 10.1021/jo3026548

Section:

Organometallic and Organometalloidal Compounds

## Enantioselective Synthesis of Chiral 3-Aryl-1-indanones through Rhodium-Catalyzed Asymmetric Intramolecular 1,4-Addition

Yue-Na Yu and Ming-Hua Xu pp 2736–2741

Publication Date (Web): February 7, 2013 (Note)

**DOI:** 10.1021/jo302656s

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

Atom-Economical Chemoselective Synthesis of 1,4-Enynes from Terminal Alkenes and Propargylic Alcohols Catalyzed by Cu(OTf)<sub>2</sub>

Guo-Bao Huang, Xu Wang, Ying-Ming Pan, Heng-Shan Wang, Gui-Yang Yao, and Ye Zhang pp 2742–2745

Publication Date (Web): February 4, 2013 (Note)

**DOI:** 10.1021/jo3026803

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

#### Synthesis of Multisubstituted Imidazoles via Copper-Catalyzed [3 + 2] Cycloadditions

Dong Tang, Ping Wu, Xiang Liu, Yong-Xin Chen, Shuai-Bo Guo, Wen-Lin Chen, Jia-Gen Li, and Bao-Hua Chen pp 2746–2750

Publication Date (Web): February 14, 2013 (Note)

**DOI:** 10.1021/jo302555z

Section:

Heterocyclic Compounds (More than One Hetero Atom)

#### Iodide-Catalyzed Halocyclization/Cycloaddition/Elimination Cascade Reaction

Ulrich Kloeckner, Peter Finkbeiner, and Boris J. Nachtsheim pp 2751–2756

Publication Date (Web): February 1, 2013 (Note)

**DOI:** 10.1021/jo302676g

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

### Synthesis of the Tripeptide Domain of Sanglifehrins Using Asymmetric Phase-Transfer Catalysis

James D. White and Khomson Suttisintong

pp 2757–2762

Publication Date (Web): February 13, 2013 (Note)

**DOI:** 10.1021/jo3027214

Section:

Amino Acids, Peptides, and Proteins

### Synthesis of Hexa(furan-2-yl)benzenes and Their $\pi$ -Extended Derivatives

Koichi Mitsudo, Jyunji Harada, Yo Tanaka, Hiroki Mandai, Chie Nishioka, Hideo Tanaka, Atsushi Wakamiya, Yasujiro Murata, and Seiji Suga pp 2763–2768

Publication Date (Web): February 25, 2013 (Note)

**DOI:** 10.1021/jo302652r

Section:

### Synthesis of Enantiopure P-Stereogenic Diphosphacrowns using P-Stereogenic Secondary Phosphines

Yasuhiro Morisaki, Ryosuke Kato, and Yoshiki Chujo pp 2769–2774

Publication Date (Web): February 12, 2013 (Note)

**DOI:** 10.1021/jo302748x

Section:

Organometallic and Organometalloidal Compounds

#### An Enantioselective Strategy for the Synthesis of (S)-Tylophorine via One-Pot Intramolecular Schmidt/Bischler— Napieralski/Imine-Reduction Cascade Sequence

Bo Su, Fazhong Chen, and Qingmin Wang pp 2775–2779

Publication Date (Web): February 1, 2013 (Note)

**DOI:** 10.1021/jo302725q

Section: Alkaloids

### NIS-Mediated Electrophilic Cyclization of 3-Silyloxy-1,*n*-enynes

Florian Huber and Stefan F. Kirsch

pp 2780–2785

Publication Date (Web): February 14, 2013 (Note)

**DOI:** 10.1021/jo302751p

Section:

Physical Organic Chemistry

## Palladium-Catalyzed Highly Selective *ortho*-Halogenation (I, Br, Cl) of Arylnitriles via sp<sup>2</sup> C-H Bond Activation Using Cyano as Directing Group

Bingnan Du, Xiaoqing Jiang, and Peipei Sun pp 2786–2791

**Publication Date (Web):** February 1, 2013 (Note)

**DOI:** 10.1021/jo302765g

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds

### Design and Synthesis of 2-Acylbenzothiazoles via In Situ Cross-Trapping Strategy from Benzothiazoles with Aryl Ketones

Qinghe Gao, Xia Wu, Fengcheng Jia, Meicai Liu, Yanping Zhu, Qun Cai, and Anxin Wu pp 2792–2797

Publication Date (Web): February 20, 2013 (Note)

**DOI:** 10.1021/jo302754c

Section:

Heterocyclic Compounds (More than One Hetero Atom)

### Stereoselective Approach to the Racemic Oxatetracyclic Core of Platensimycin

Sakuya Horii, Munefumi Torihata, Tomohiro Nagasawa, and Shigefumi Kuwahara pp 2798–2801

Publication Date (Web): February 1, 2013 (Note)

**DOI:** 10.1021/jo302813y

Section:

Biomolecules and Their Synthetic Analogs

#### Total Synthesis of Calothrixin A and B via C-H Activation

Nagarajan Ramkumar and Rajagopal Nagarajan

pp 2802-2807

Publication Date (Web): February 20, 2013 (Note)

**DOI:** 10.1021/jo302821v

Section: Alkaloids

### Monoimine Derived from *trans*-1,2-Diaminocyclohexane and Ethyl Glyoxylate: An Intermediate in Aza-Diels—Alder and Mannich Reactions

Elżbieta Wojaczyńska, Julia Bąkowicz, Mateusz Dorsz, and Jacek Skarżewski pp 2808–2811

Publication Date (Web): February 8, 2013 (Note)

**DOI:** 10.1021/jo302820m

Section:

Heterocyclic Compounds (More than One Hetero Atom)

#### **Additions and Corrections**

### Correction to Mandelalides A–D, Cytotoxic Macrolides from a New *Lissoclinum* Species of South African Tunicate

Justyna Sikorska, Andrew M. Hau, Clemens Anklin, Shirley Parker-Nance, Michael T. Davies-Coleman, Jane E. Ishmael, and Kerry L. McPhail pp 2812–2812

Publication Date (Web): February 19, 2013 (Addition/Correction)

**DOI:** 10.1021/jo4002646