



#### **Reactive Conducting Thiepin Polymers**

Changsik Song and Timothy M. Swager pp 999–1005

Publication Date (Web): November 13, 2009 (Featured Article)

DOI: 10.1021/jo902079j

### **Equations for the Transfer of Neutral Molecules and Ionic Species from Water to Organic phases**

Michael H Abraham and William E Acree, Jr. pp 1006–1015

Publication Date (Web): January 25, 2010 (Featured Article)

DOI: 10.1021/jo902388n

# Expanded Scope of Synthetic Bacteriochlorins via Improved Acid Catalysis Conditions and Diverse DihydrodipyrrinAcetals

Michael Krayer, Marcin Ptaszek, Han-Je Kim, Kelly R. Meneely, Dazhong Fan, Kristen Secor and Jonathan S. Lindsey pp 1016–1039

Publication Date (Web): January 20, 2010 (Featured Article)

DOI: 10.1021/jo9025572

## A Molecular Reel: Shuttling of a Rotor by Tumbling of a Macrocycle

Kazuhiro Yamauchi, Atsuhisa Miyawaki, Yoshinori Takashima, Hiroyasu Yamaguchi and Akira Harada pp 1040–1046

Publication Date (Web): January 14, 2010 (Featured Article)

DOI: 10.1021/jo902393n

### Modulating Reactivity and Diverting Selectivity in Palladium-Catalyzed Heteroaromatic Direct Arylation Through the Use of a Chloride Activating/Blocking Group

Benot Ligault, Ivan Petrov, Serge I. Gorelsky and Keith Fagnou pp 1047–1060

Publication Date (Web): January 14, 2010 (Featured Article)

**DOI:** 10.1021/jo902515z

#### **Articles**

# Computational Studies of Ion-Pair Separation of Benzylic Organolithium Compounds in THF: Importance of Explicit and Implicit Solvation

Nipa Deora and Paul R. Carlier pp 1061–1069

Publication Date (Web): January 27, 2010 (Article)

**DOI:** 10.1021/jo9016452

### Self-Assembly of $C_3$ -Symmetrical Hexaaryltriindoles Driven by Solvophobic and CH $-\pi$ Interactions

Eva M. Garca-Frutos, Gunther Hennrich, Enrique Gutierrez, Angeles Monge and Berta Gmez-Lor pp 1070–1076

Publication Date (Web): January 14, 2010 (Article)

DOI: 10.1021/jo902013v

# Mechanistic Pathways in CF<sub>3</sub>COOH-Mediated Deacetalization Reactions

Wei Li, Jianchang Li, Yuchuan Wu, Nathan Fuller and Michelle A. Markus pp 1077–1086

Publication Date (Web): January 22, 2010 (Article)

DOI: 10.1021/jo902014z

### Self-Assembling Cyclic Tetrapeptide from Alternating C-Linked Carbo-β-amino Acid [(S)-β-Caa] and α-Aminoxy Acid [(R)-Ama]: A Selective Chloride Ion Receptor

Gangavaram V. M. Sharma, Vennampalli Manohar, Samit Kumar Dutta, Bojja Sridhar, Venna Ramesh, Ragampeta Srinivas and Ajit C. Kunwar pp 1087–1094

Publication Date (Web): January 22, 2010 (Article)

**DOI:** 10.1021/jo901923q

### <u>Superarming Common Glycosyl Donors by Simple 2-*O*-Benzoyl-3,4,6-tri-*O*-benzyl Protection</u>

Hemali D. Premathilake, Laurel K. Mydock and Alexei V. Demchenko

pp 1095-1100

Publication Date (Web): January 28, 2010 (Article)

DOI: 10.1021/jo9021474

### Organocatalytic Enantioselective Synthesis of Both Diastereomers of α-Hydroxyphosphinates

Sampak Samanta, Sandun Perera and Cong-Gui Zhao

pp 1101-1106

Publication Date (Web): January 19, 2010 (Article)

DOI: 10.1021/jo9022099

### **Erosion of Stereochemical Control with Increasing Nucleophilicity: O-Glycosylation at the Diffusion Limit**

Matthew G. Beaver and K. A. Woerpel

pp 1107-1118

Publication Date (Web): January 28, 2010 (Article)

DOI: 10.1021/jo902222a

### <u>Intermediacy of Eudesmane Cation during Catalysis by</u> <u>Aristolochene Synthase</u>

Juan A. Faraldos, Benson Kariuki and Rudolf K. Allemann pp 1119–1125

Publication Date (Web): January 22, 2010 (Article)

**DOI:** 10.1021/jo902397v

## <u>Total Syntheses of (-)-Fructigenine A and (-)-5-N-Acetylardeemin</u>

Satoshi Takiguchi, Toshimasa Iizuka, Yuh-suke Kumakura, Kohta Murasaki, Naoko Ban, Kazuhiro Higuchi and Tomomi Kawasaki pp 1126–1131

Publication Date (Web): January 14, 2010 (Article)

**DOI:** 10.1021/jo9023107

# Asymmetry in the *N*-Inversion of Heteroarene Imines: Pyrimidin-4(3*H*)-Imine, Pyridin-2(1*H*)-Imine, and 1*H*-Purine-6(9*H*)-Imine

Rainer Glaser, Jian Yin and Stephanie Miller pp 1132–1142

Publication Date (Web): January 28, 2010 (Article)

DOI: 10.1021/jo902358c

### **Systematic Investigation of CD Spectra of Aryl Benzyl Sulfoxides Interpreted by Means of TDDFT Calculations**

Gennaro Pescitelli, Sebastiano Di Pietro, Cosimo Cardellicchio, Maria Annunziata M. Capozzi and Lorenzo Di Bari

pp 1143-1154

Publication Date (Web): January 25, 2010 (Article)

DOI: 10.1021/jo902363c

#### **Large-Scale Asymmetric Synthesis of a Cathepsin S Inhibitor**

Jon C. Lorenz, Carl A. Busacca, XuWu Feng, Nelu Grinberg, Nizar Haddad, Joe Johnson, Suresh Kapadia, Heewon Lee, Anjan Saha, Max Sarvestani, Earl M. Spinelli, Rich Varsolona, Xudong Wei, Xingzhong Zeng and Chris H. Senanayake

pp 1155-1161

Publication Date (Web): January 27, 2010 (Article)

**DOI:** 10.1021/jo9022809

# Brønsted Base-Catalyzed One-Pot Three-Component Biginelli-Type Reaction: An Efficient Synthesis of 4,5,6Triaryl-3,4-dihydropyrimidin-2(1*H*)-one and Mechanistic Study

Zhi-Liang Shen, Xiao-Ping Xu and Shun-Jun Ji pp 1162–1167

Publication Date (Web): January 19, 2010 (Article)

DOI: 10.1021/jo902394y

#### On the Causes of Potential Inversion in 1,2,4,5-Tetrakis(amino)benzenes

Christopher J. Adams, Rosenildo C. da Costa, Ruth Edge, Dennis H. Evans and Matthew F. Hood pp 1168–1178

Publication Date (Web): January 14, 2010 (Article)

DOI: 10.1021/jo902411b

### OsO<sub>4</sub>-Mediated Dihydroxylation of meso-

### <u>Tetraphenylporphyrin N-Oxide and Transformation of the Resulting Diolchlorin N-Oxide Regioisomers</u>

Subhadeep Banerjee, Matthias Zeller and Christian Brckner pp 1179–1187

Publication Date (Web): January 12, 2010 (Article)

DOI: 10.1021/jo9024286

# Zn(OTf)<sub>2</sub>-Catalyzed Reactions of Ethenetricarboxylates with 2-Aminobenzaldehydes Leading to Tetrahydroquinoline Derivatives

Shoko Yamazaki, Masachika Takebayashi and Kazuya Miyazaki pp 1188–1196

Publication Date (Web): January 28, 2010 (Article)

**DOI:** 10.1021/jo902430v

#### <u>Au/Ag-Cocatalyzed Aldoximes to Amides Rearrangement</u> <u>under Solvent- and Acid-Free Conditions</u>

Rubn S. Ramn, Johann Bosson, Silvia Dez-Gonzlez, Nicolas Marion and Steven P. Nolan pp 1197–1202

Publication Date (Web): January 26, 2010 (Article)

DOI: 10.1021/jo902461a

### Structure Elucidation of Dimethylformamide-Solvated Alkylzinc Cations in the Gas Phase

Frank Dreiocker, Jos Oomens, Anthony J. H. M. Meijer, Barry T. Pickup, Richard F. W. Jackson and Mathias Schfer

pp 1203-1213

Publication Date (Web): January 20, 2010 (Article)

**DOI:** 10.1021/jo902492z

# On the Origins of Diastereoselectivity in the Alkylation of Enolates Derived from N-1-(1'-Naphthyl)ethyl-O-tert-butylhydroxamates: Chiral Weinreb Amide Equivalents

Stephen G. Davies, Christopher J. Goodwin, David Hepworth, Paul M. Roberts and James E. Thomson pp 1214–1227

Publication Date (Web): January 22, 2010 (Article)

DOI: 10.1021/jo902499s

# Synthesis, Properties, Crystal Structures, and Semiconductor Characteristics of Naphtho[1,2-b:5,6-b']dithiophene and -diselenophene Derivatives

Shoji Shinamura, Eigo Miyazaki and Kazuo Takimiya pp 1228–1234

Publication Date (Web): January 25, 2010 (Article)

DOI: 10.1021/jo902545a

#### Synthesis of Medium-Bridged Twisted Lactams via Cation- $\pi$ Control of the Regiochemistry of the Intramolecular Schmidt Reaction

Michal Szostak, Lei Yao and Jeffrey Aub

pp 1235-1243

Publication Date (Web): January 22, 2010 (Article)

**DOI:** 10.1021/jo902574m

# Preparation of a Storable Zinc Carbenoid Species and Its Application in Cyclopropanation, Chain Extension, and [2,3] Sigmatropic Rearrangement Reactions

Arnaud Voituriez, Lucie E. Zimmer and Andr B. Charette

pp 1244-1250

Publication Date (Web): January 22, 2010 (Article)

**DOI:** 10.1021/jo902618e

#### <u>Palladium-Catalyzed Preparation of Weinreb Amides from</u> <u>Boronic Acids and N-Methyl-N-methoxycarbamoyl Chloride</u>

Ravi Krishnamoorthy, Sang Q. Lam, Christopher M. Manley and R. Jason Herr

pp 1251-1258

Publication Date (Web): January 20, 2010 (Article)

DOI: 10.1021/jo902647h

# <u>Highly Effective Vinylogous Mukaiyama–Michael Reaction</u> <u>Catalyzed by Silyl Methide Species Generated from 1,1,3,3-</u> <u>Tetrakis(trifluoromethanesulfonyl)propane</u>

Arata Takahashi, Hikaru Yanai, Min Zhang, Takaaki Sonoda, Masaaki Mishima and Takeo Taguchi pp 1259–1265

Publication Date (Web): January 19, 2010 (Article)

**DOI:** 10.1021/jo902641g

### A Method for the Synthesis of Substituted Quinolines via Electrophilic Cyclization of 1-Azido-2-(2-propynyl)benzene

Zhibao Huo, Ilya D. Gridnev and Yoshinori Yamamoto pp 1266–1270

Publication Date (Web): January 26, 2010 (Article)

**DOI:** 10.1021/jo902603v

#### Solarylations via 4-Aminophenyl Cations

Valentina Dichiarante, Maurizio Fagnoni and Angelo Albini pp 1271–1276

Publication Date (Web): January 28, 2010 (Article)

**DOI:** 10.1021/jo902669j

#### Notes

# Gold- and Platinum-Catalyzed Formal Markownikoff's Double Hydroamination of Alkynes: A Rapid Access to Tetrahydroquinazolinones and Angularly-Fused Analogues Thereof

Nitin T. Patil, Rahul D. Kavthe, Vivek S. Raut, Valmik S. Shinde and Balasubramanian Sridhar pp 1277–1280

Publication Date (Web): January 21, 2010 (Note)

DOI: 10.1021/jo902293f

### Rhodium(I)-Catalyzed Cycloisomerization of 1,6-Enynes to Bicyclo[4.1.0]heptenes

Sun Young Kim and Young Keun Chung pp 1281–1284

Publication Date (Web): January 22, 2010 (Note)

**DOI:** 10.1021/jo902273x

### A Facile and Efficient Synthesis of 3,3-Dimethyl Isopropylidene Proline From (+)-3-Carene

Latha G. Nair, Anil Saksena, Raymond Lovey, Mousumi Sannigrahi, Jesse Wong, Jianshe Kong, Xiaoyong Fu and Viyyoor Girijavallabhan pp 1285–1288

Publication Date (Web): January 28, 2010 (Note)

**DOI:** 10.1021/jo9022759

### Enzymatic Deprotection of the Cephalosporin 3'-Acetoxy Group Using Candida antarctica Lipase B

Leslie D. Patterson and Marvin J. Miller pp 1289–1292

Publication Date (Web): January 25, 2010 (Note)

**DOI:** 10.1021/jo902406b

# Synthesis of the Conformationally Constrained Tyrosine Analogues, (R)- and (S)-5-Hydroxy-2-aminoindan-2-carboxylic Acids

Francis N. Murigi, Gary S. Nichol and Eugene A. Mash pp 1293–1296

Publication Date (Web): January 22, 2010 (Note)

DOI: 10.1021/jo902438s

### **Strongly Emitting Fluorophores Based on 1-Azaperylene Scaffold**

Daniel T. Gryko, Joanna Piechowska and Michał Gałzowski pp 1297–1300

Publication Date (Web): January 25, 2010 (Note)

DOI: 10.1021/jo902443s

### A Rapid and Efficient Sonogashira Protocol and Improved Synthesis of Free Fatty Acid 1 (FFA1) Receptor Agonists

Elisabeth Christiansen, Maria E. Due-Hansen and Trond Ulven pp 1301–1304

Publication Date (Web): January 25, 2010 (Note)

**DOI:** 10.1021/jo902533p

# Unexpected Domino Reaction via Pd-Catalyzed Sonogashira Coupling of Benzimidoyl Chlorides with 1,6-Enynes and Cyclization To Synthesize Quinoline Derivatives

Guo-Lin Gao, Yan-Ning Niu, Ze-Yi Yan, Hong-Li Wang, Gang-Wei Wang, Ali Shaukat and Yong-Min Liang pp 1305–1308

Publication Date (Web): January 20, 2010 (Note)

**DOI:** 10.1021/jo9026116

# Gold(III)-Catalyzed Tandem Reaction of Ketones with Phenols: Efficient and Highly Selective Synthesis of Functionalized 4*H*-Chromenes

Yunkui Liu, Jianqiang Qian, Shaojie Lou, Jie Zhu and Zhenyuan Xu pp 1309–1312

Publication Date (Web): January 14, 2010 (Note)

**DOI:** 10.1021/jo902619x

# Enantioselective Henry Reaction Catalyzed by Cu<sup>II</sup> Salt and Bipiperidine

Artur Noole, Kristin Lippur, Andrus Metsala, Margus Lopp and Tnis Kanger pp 1313–1316

Publication Date (Web): January 22, 2010 (Note)

DOI: 10.1021/jo902664v

### Cyclization Approaching to (-)-Lycojapodine A: Synthesis of Two Unnatural Alkaloids

Yu-Rong Yang, Liang Shen, Kun Wei and Qin-Shi Zhao pp 1317–1320

Publication Date (Web): January 22, 2010 (Note)

DOI: 10.1021/jo9026534

# PdCl<sub>2</sub>(HNMe<sub>2</sub>)<sub>2</sub>-Catalyzed Highly Selective Cross [2 + 2 + 2] Cyclization of Alkynoates and Alkenes under Molecular Oxygen

Yanxia Shen, Huanfeng Jiang and Zhengwang Chen pp 1321–1324

Publication Date (Web): January 27, 2010 (Note)

DOI: 10.1021/jo902636g

#### Mild and Efficient Desymmetrization of Diynes via Hydroamination: Application to the Synthesis of (±)-Monomorine I

Vijaya Bhaskara Reddy Iska, Vincenzo Verdolino, Olaf Wiest and Paul Helquist pp 1325–1328

Publication Date (Web): January 20, 2010 (Note)

**DOI:** 10.1021/jo902674j

#### **Additions and Corrections**

#### **Glycosylation Using Unprotected Alkynyl Donors**

Sreeman K. Mamidyala and M.G. Finn p 1329

Publication Date (Web): December 7, 2009 (Addition/Correction)

DOI: 10.1021/jo902465t

### Metal-Catalyzed Cycloisomerization Reactions of *cis*-4-Hydroxy-5-alkynylpyrrolidinones and *sis*-5-Hydroxy-6alkynylpiperidinones: Synthesis of Furo[3,2-*b*]pyrroles and Furo[3,2-*b*]pyridines

Jasmine C. Jury, Nalivela Kumara Swamy, Arife Yazici, Ian R. Morgan, Anthony C. Willis and Stephen G. Pyne

p 1330

Publication Date (Web): December 15, 2009 (Addition/Correction)

**DOI:** 10.1021/jo9025385

### An Improved Synthesis of the Selective EP4 Receptor Agonist ONO-4819

Chisa Ohta, Shin-itsu Kuwabe, Tai Shiraishi, Ikuo Shinohara, Hiroshi Araki, Shigeru Sakuyama, Takayuki Makihara, Yasufumi Kawanaka, Shuichi Ohuchida and Takuya Seko n 1330

Publication Date (Web): November 25, 2009 (Addition/Correction)

**DOI**: 10.1021/jo902446x

# Efficient Synthesis of 2-(Trimethylsilyl)phenyl Trifluoromethanesulfonate: A Versatile Precursor to oBenzyne

Sarah M. Bronner and Neil K. Garg

p 1330

Publication Date (Web): December 14, 2009 (Addition/Correction)

**DOI:** 10.1021/jo9025513