

November 2, 2012

Volume 77, Issue 21

Pages 9437-9932

FEATURED ARTICLES

Chemoenzymatic Synthesis of Hydrophobic Glycoprotein: Synthesis of Saposin C Carrying Complex-Type Carbohydrate

Hironobu Hojo, Hiromasa Tanaka, Masashi Hagiwara, Yuya Asahina, Akiharu Ueki, Hidekazu Katayama, Yuko Nakahara, Azusa Yoneshige, Junko Matsuda, Yukishige Ito, and Yoshiaki Nakahara

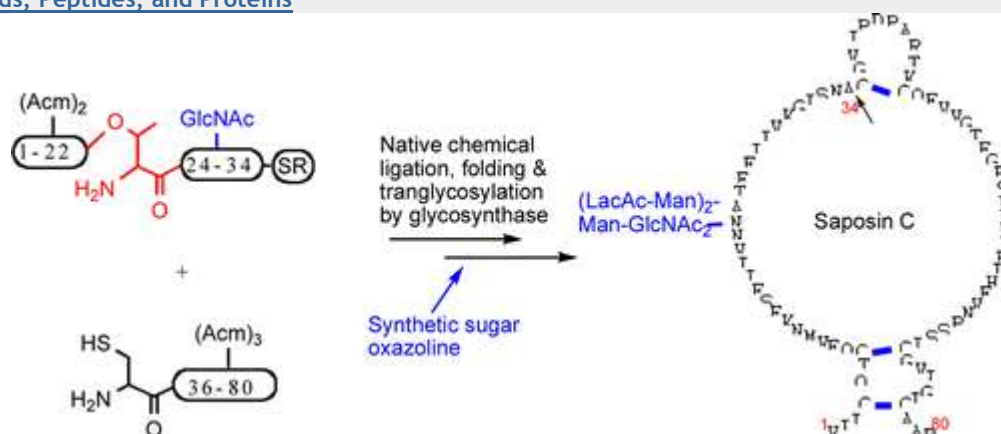
pp 9437-9446

Publication Date (Web): July 16, 2012 (Featured Article)

DOI: 10.1021/jo3010155

 Section:

[Amino Acids, Peptides, and Proteins](#)



Construction of Snowflake-Shaped Dendritic Covalent Assemblies with Rigid Conjugated Networks

Masatoshi Kozaki, Shirou Morita, Shuichi Suzuki, and Keiji Okada

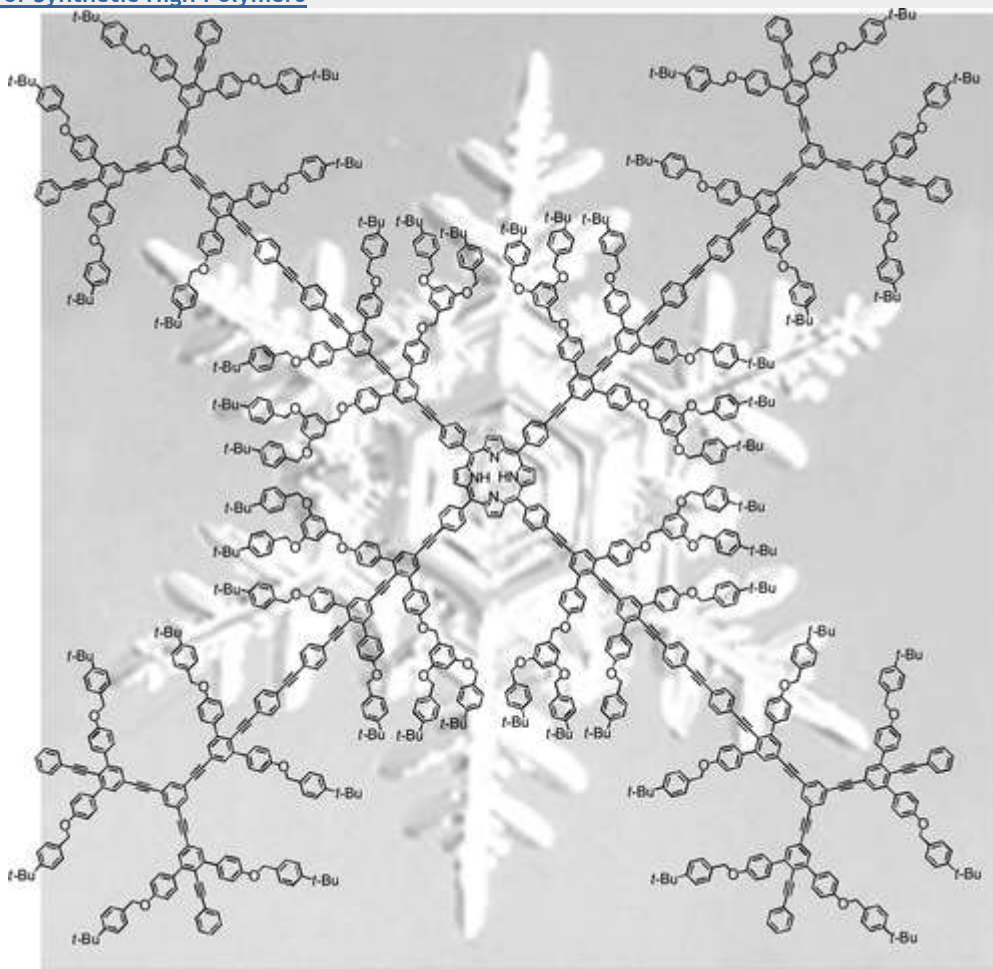
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Publication Date (Web): October 12, 2012 (Featured Article)

DOI: 10.1021/jo3014512

 Section:

Chemistry of Synthetic High Polymers



Total Synthesis of Pactamycin and Pactamycate: A Detailed Account

Stephen Hanessian, Ramkrishna Reddy Vakiti, Stéphane Dorich, Shyamapada Banerjee, and Benoît Deschênes-Simard

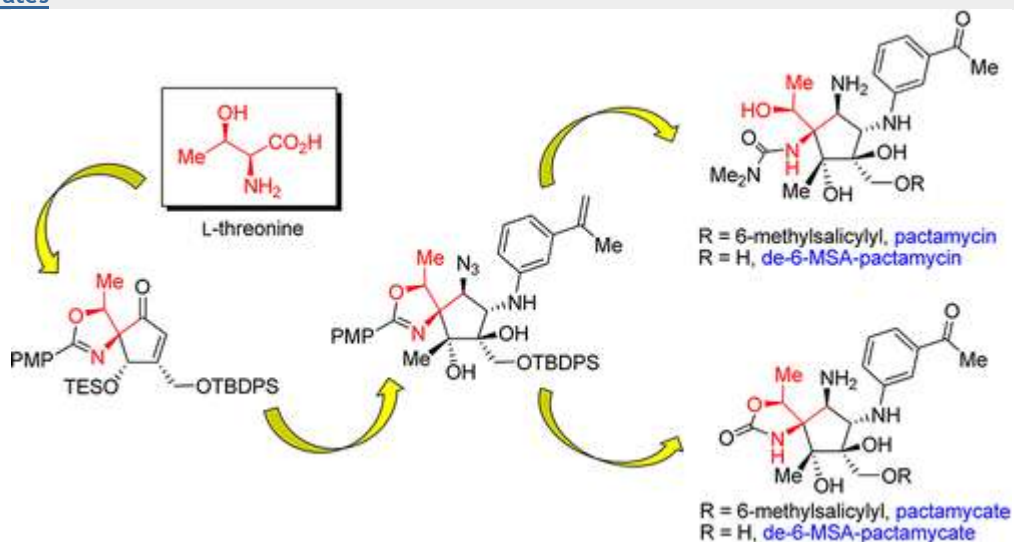
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Publication Date (Web): October 19, 2012 (Featured Article)

DOI: 10.1021/jo301638z

Section:

Carbohydrates



Palladium-Catalyzed Synthesis of Benzimidazoles and Quinazolinones from Common

Precursors

Jessie E. R. Sadig, Radleigh Foster, Florian Wakenhut, and Michael C. Willis

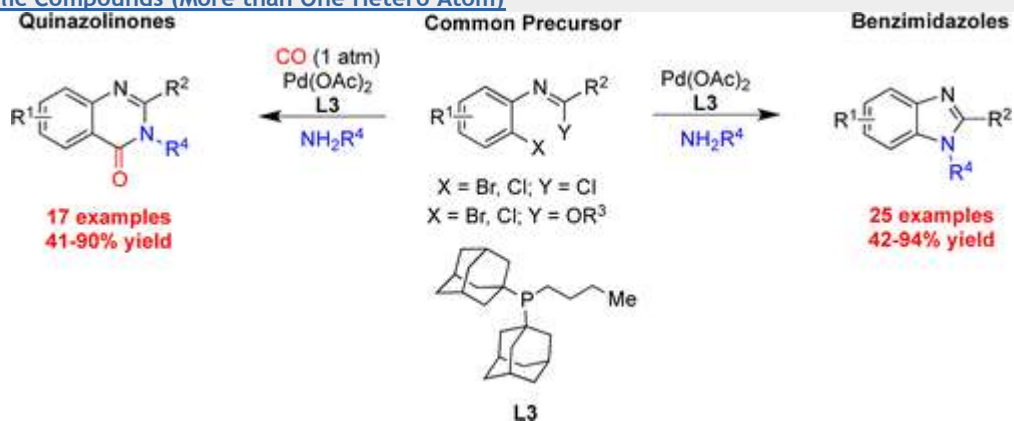
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Publication Date (Web): October 3, 2012 (Featured Article)

DOI: 10.1021/jo301805d

Section:

Heterocyclic Compounds (More than One Hetero Atom)



Phenyl Shifts in Substituted Arenes via *Ipsso* Arenium Ions

Aida Ajaz, Erin C. McLaughlin, Sarah L. Skraba, Rajesh Thamam, and Richard P. Johnson

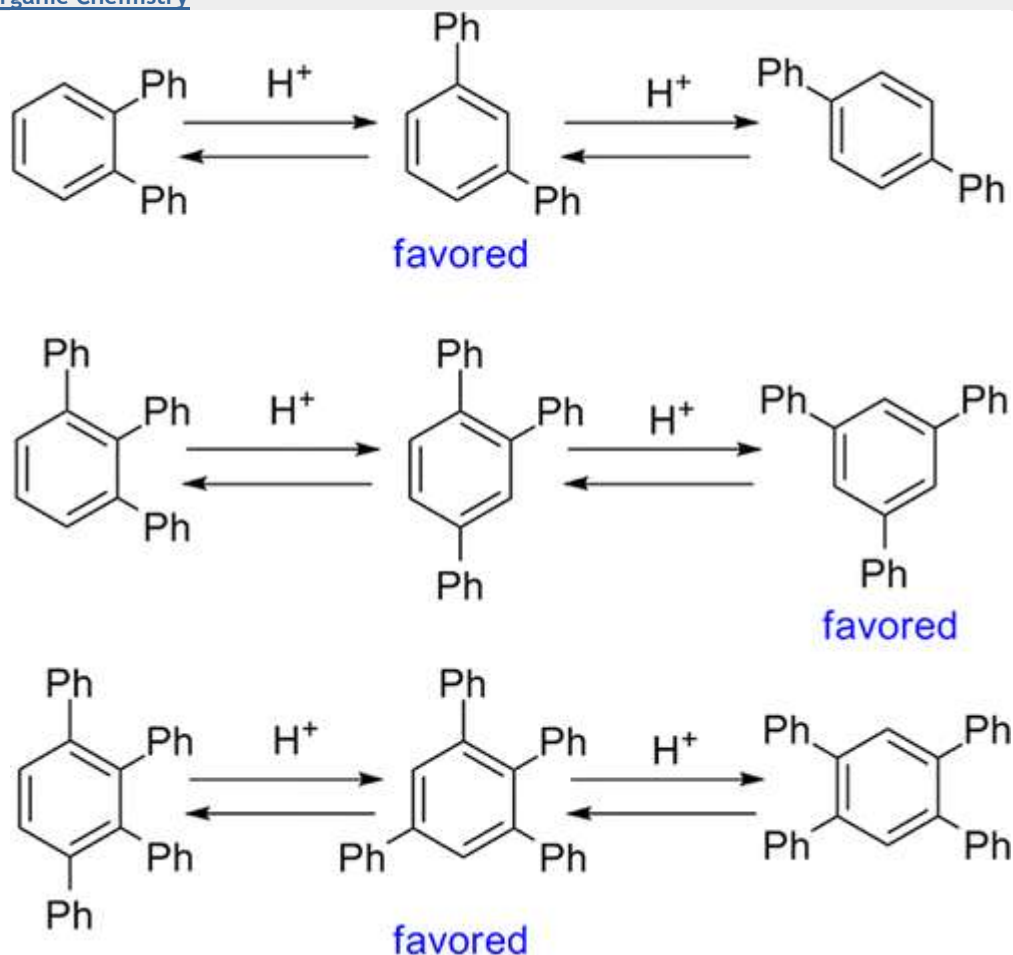
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Publication Date (Web): October 12, 2012 (Featured Article)

DOI: 10.1021/jo301848g

CCS Section:

Physical Organic Chemistry



Copper-Assisted Palladium(II)-Catalyzed Direct Arylation of Cyclic Enaminones with Arylboronic Acids

Yong Wook Kim, Micah J. Niphakis, and Gunda I. Georg

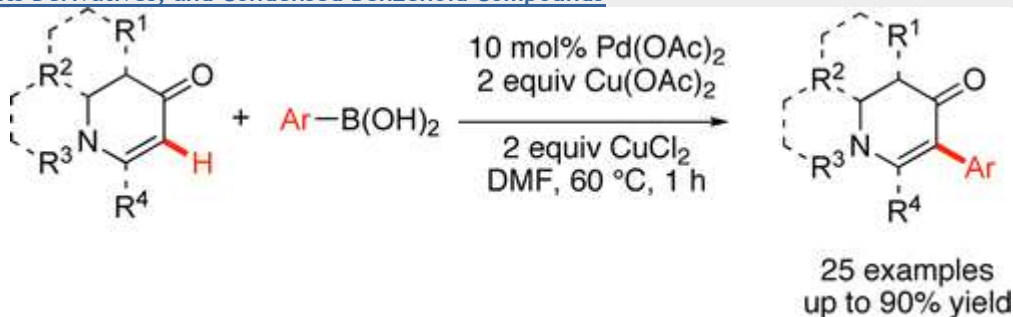
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Publication Date (Web): October 22, 2012 (Featured Article)

DOI: 10.1021/jo301531k

CCS Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds



Palladium-Catalyzed Ortho-Alkoxylation of Anilides via C–H Activation

Tao-Shan Jiang and Guan-Wu Wang

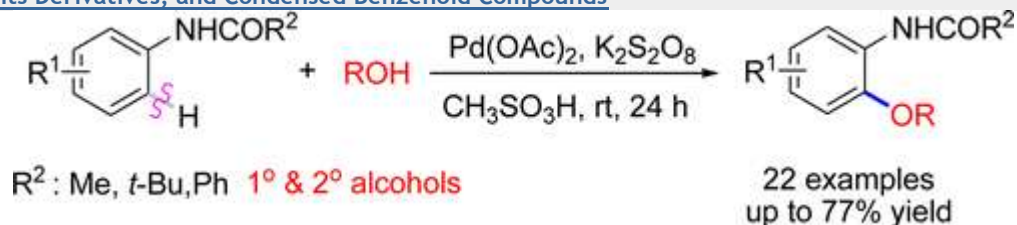
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Publication Date (Web): October 1, 2012 (Featured Article)

DOI: 10.1021/jo301964m

Section:

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3-Alkenylation or 3-Alkylation of Indole with Propargylic Alcohols: Construction of 3,4-Dihydrocyclopenta[*b*]indole and 1,4-Dihydrocyclopenta[*b*]indole in the Presence of Different Catalysts

Li Zhang, Yuanxun Zhu, Guangwei Yin, Ping Lu, and Yanguang Wang

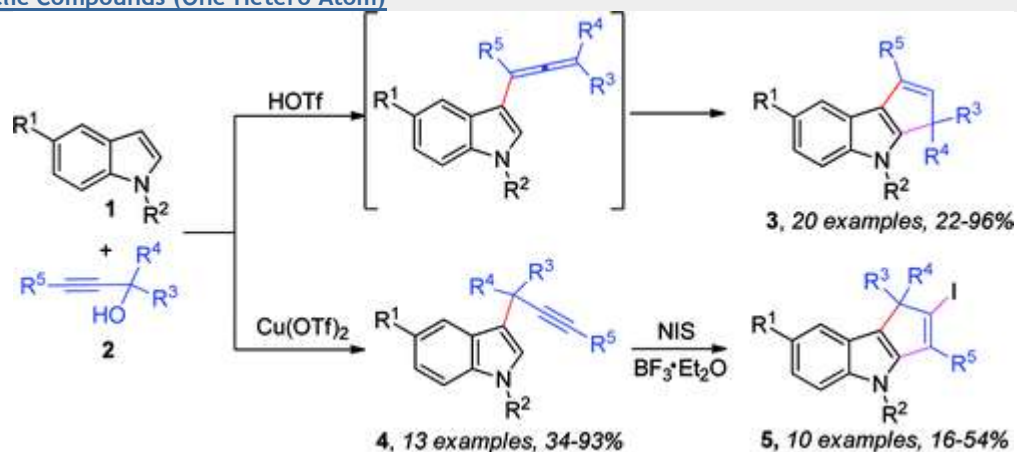
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Publication Date (Web): April 18, 2012 (Article)

DOI: 10.1021/jo300339a

Section:

Heterocyclic Compounds (One Hetero Atom)



Methyl [^{13}C]Glucopyranosiduronic Acids: Effect of COOH Ionization and Exocyclic Structure on NMR Spin-Couplings

Wenhui Zhang, Xiaosong Hu, Ian Carmichael, and Anthony S. Serianni

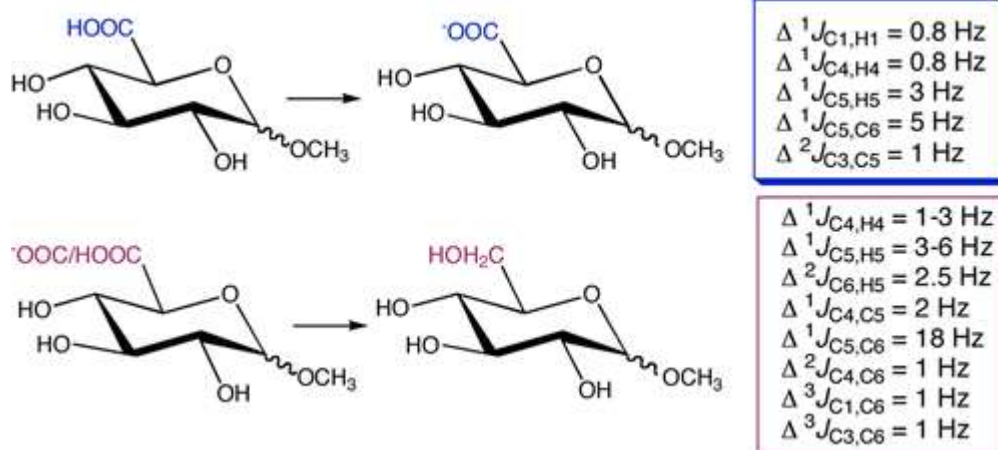
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DOI: 10.1021/jo3011182

CCS Section:

Physical Organic Chemistry



The Element Effect Revisited: Factors Determining Leaving Group Ability in Activated Nucleophilic Aromatic Substitution Reactions

Nicholas A. Senger, Bo Bo, Qian Cheng, James R. Keeffe, Scott Gronert, and Weiming Wu

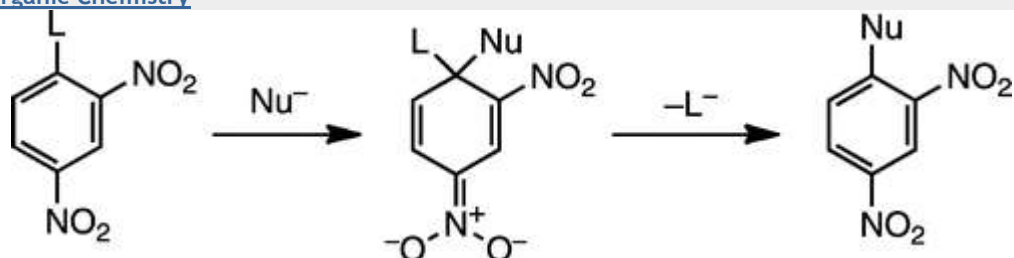
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DOI: 10.1021/jo301134q

CCS Section:

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Isoselenazolones as Catalysts for the Activation of Bromine: Bromolactonization of Alkenoic

Acids and Oxidation of Alcohols

Shah Jaimin Balkrishna, Ch Durga Prasad, Piyush Panini, Michael R. Detty, Deepak Chopra, and Sangit Kumar

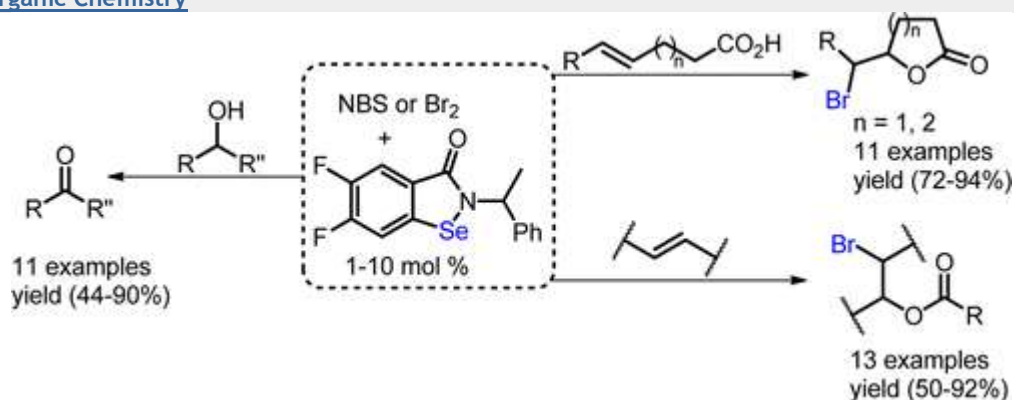
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DOI: 10.1021/jo301486c

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General Organic Chemistry



Synthesis and Evaluation of a Photochromic Surfactant for Organic Reactions in Aqueous

Media

Nicolas Drillaud, Estelle Banaszak-Léonard, Isabelle Pezron, and Christophe Len

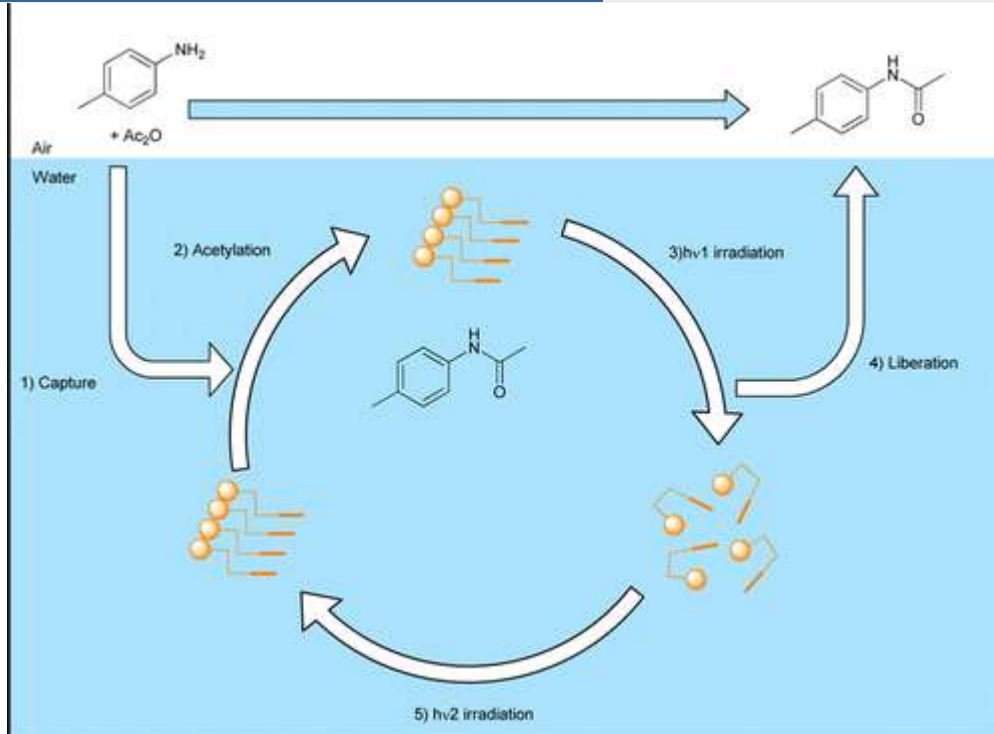
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Publication Date (Web): October 1, 2012 (Article)

DOI: 10.1021/jo301466w

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds



Three Pyrene-Modified Nucleotides: Synthesis and Effects in Secondary Nucleic Acid

Structures

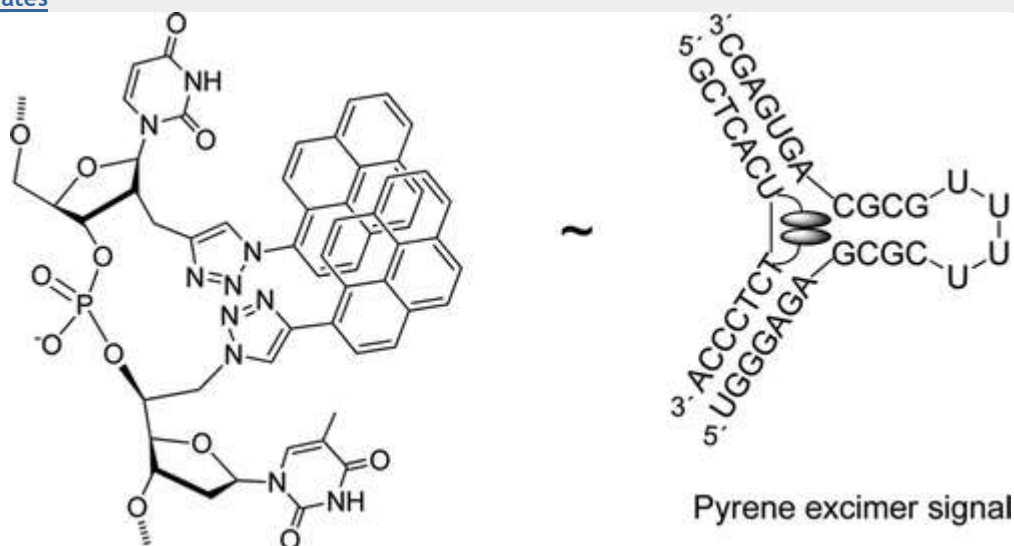
Pawan Kumar, Khalil I. Shaikh, Anna S. Jørgensen, Surender Kumar, and Poul Nielsen

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DOI: 10.1021/jo301571s

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A Unifying Stereochemical Analysis for the Formation of Halogenated C₁₅-Acetogenin Medium-Ring Ethers From *Laurencia* Species via Intramolecular Bromonium Ion Assisted Epoxide Ring-Opening and Experimental Corroboration with a Model Epoxide

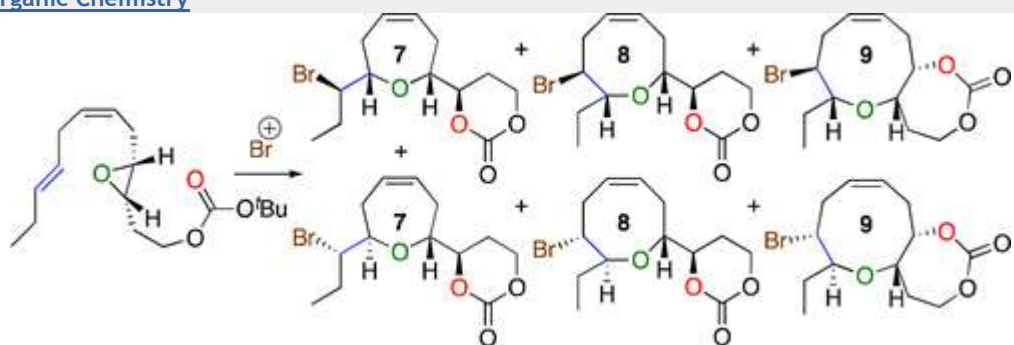
Karl J. Bonney and D. Christopher Braddock

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DOI: 10.1021/jo301580c

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Controlling UV/vis Absorption and Stokes Shifts in Highly Fluorescent Chromophores by Molecular Dynamics in Targeted Construction of Dyads

Heinz Langhals and Alexander Hofer

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Rh-Catalyzed Addition of Arylboroxines to Cyclic *N*-(Isopropanesulfinyl)ketimines

Hyung Hoon Jung, Andrew W. Buesking, and Jonathan A. Ellman

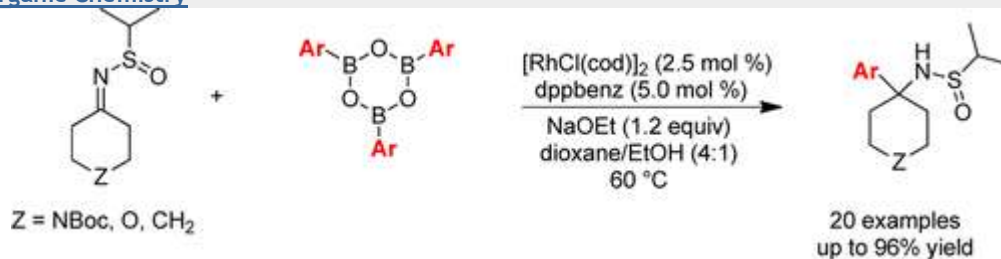
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DOI: 10.1021/jo301634y

Section:

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Asymmetric Direct α -Hydroxylation of β -Oxo Esters Catalyzed by Chiral Quaternary

Ammonium Salts Derived from Cinchona Alkaloids

Hongjie Yao, Mingming Lian, Zhi Li, Yakun Wang, and Qingwei Meng

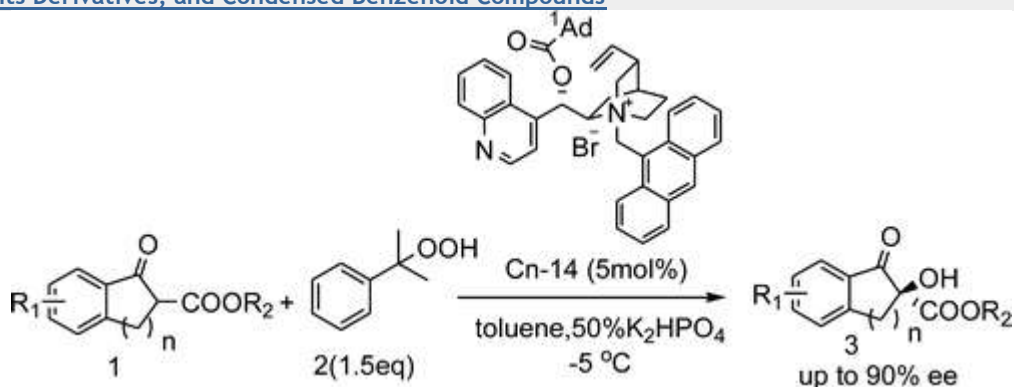
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2-Acylamino- and 2,4-Bis(acylamino)pyrimidines as Supramolecular Synthons Analyzed by Multiple Noncovalent Interactions. DFT, X-ray Diffraction, and NMR Spectral Studies

Borys Ośmiatowski, Erkki Kolehmainen, Satu Ikonen, Arto Valkonen, Adam Kwiatkowski, Izabela Grela, and Esa Haapaniemi

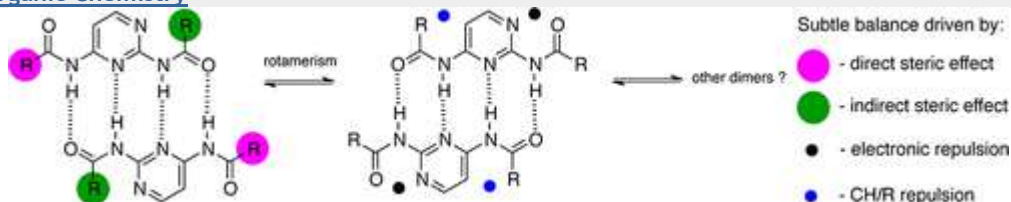
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Publication Date (Web): September 30, 2012 (Article)

DOI: 10.1021/jo301643z

Section:

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Formation of Oligomeric and Macrocyclic Ureas Based on 2,6-Diaminopyridine

Andrea Gube, Hartmut Komber, Karin Sahre, Peter Friedel, Brigitte Voit, and Frank Böhme

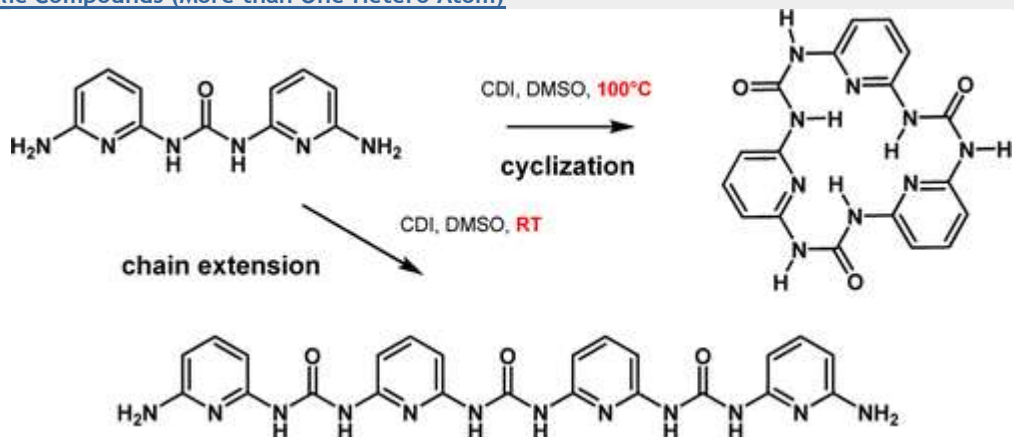
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Publication Date (Web): October 16, 2012 (Article)

DOI: 10.1021/jo3015598

Section:

Heterocyclic Compounds (More than One Hetero Atom)



Total Synthesis of (–)-Tirandamycin C Utilizing a Desymmetrization Protocol

J. S. Yadav, Santu Dhara, Sk. Samad Hossain, and Debendra K. Mohapatra

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DOI: 10.1021/jo3016709



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G rard Audran, Paul Br mond, Sylvain R. A. Marque, and Germain Obame

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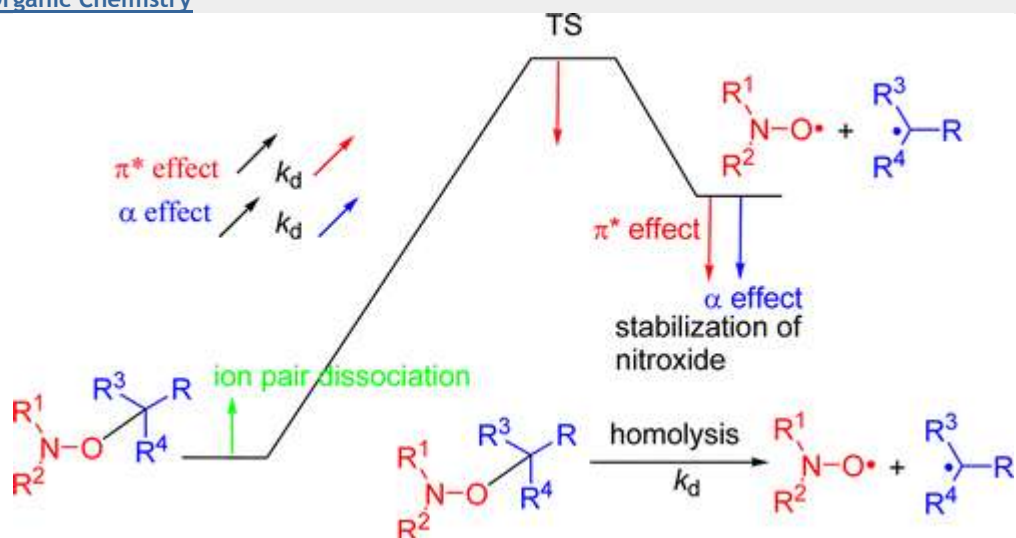
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DOI: 10.1021/jo3016665



Section:

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Synthesis of Donor- σ -Perylenebisimide-Acceptor Molecules Having PEG Swallowtails and Sulfur Anchors

Rajesh Kota, Ramakrishna Samudrala, and Daniell Lewis Mattern

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Publication Date (Web): October 10, 2012 (Article)

DOI: 10.1021/jo301701a



Section:

Heterocyclic Compounds (More than One Hetero Atom)



Removal of Acidic or Basic α -Amino Acids in Water by Poorly Water Soluble Scandium

Complexes

Nobuyuki Hayashi, Shigeki Jin, and Tomomi Ujihara

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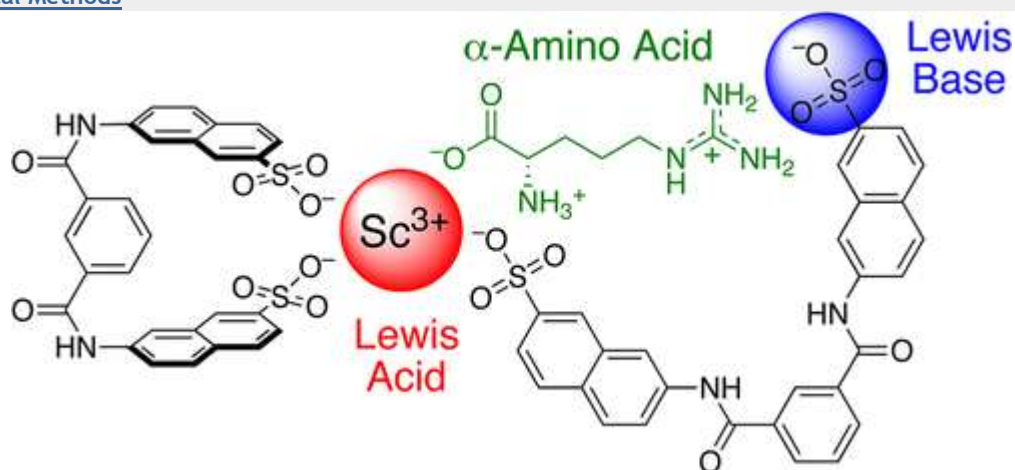
Publication Date (Web): October 10, 2012 (Article)

DOI: 10.1021/jo301739s



Section:

Biochemical Methods



Total Synthesis and Biological Activity of the Proposed Structure of Phaeosphaeride A

Anthoula Chatzimpaloglou, Maria P. Yavropoulou, Karien E. Rooij, Ralf Biedermann, Uwe Mueller, Stefan Kaskel, and Vasiliki Sarli

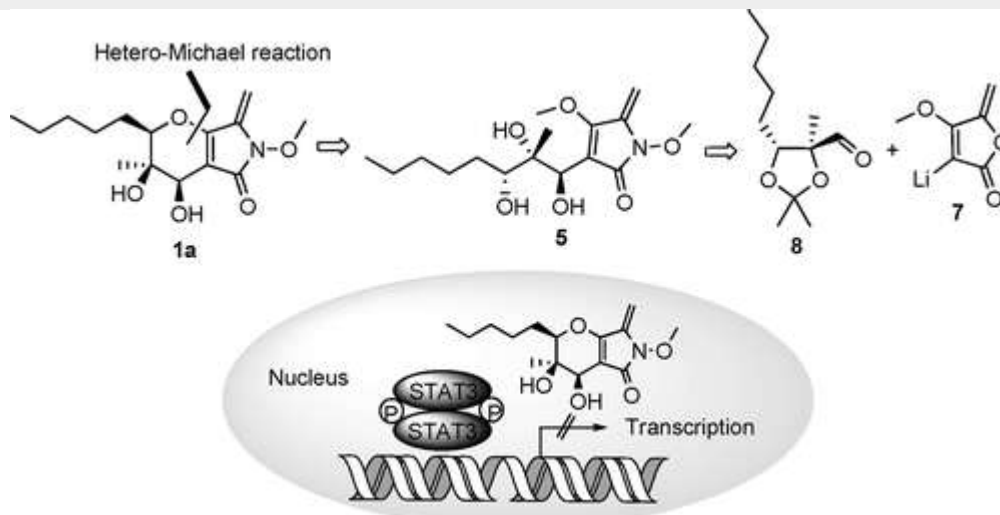
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Publication Date (Web): October 10, 2012 (Article)

DOI: 10.1021/jo301662e

CCS Section:

Alkaloids



Selective Amine Recognition Driven by Host–Guest Proton Transfer and Salt Bridge Formation

Formation

Calogero Capici, Giuseppe Gattuso, Anna Notti, Melchiorre F. Parisi, Sebastiano Pappalardo, Giovanna Brancatelli, and Silvano Geremia

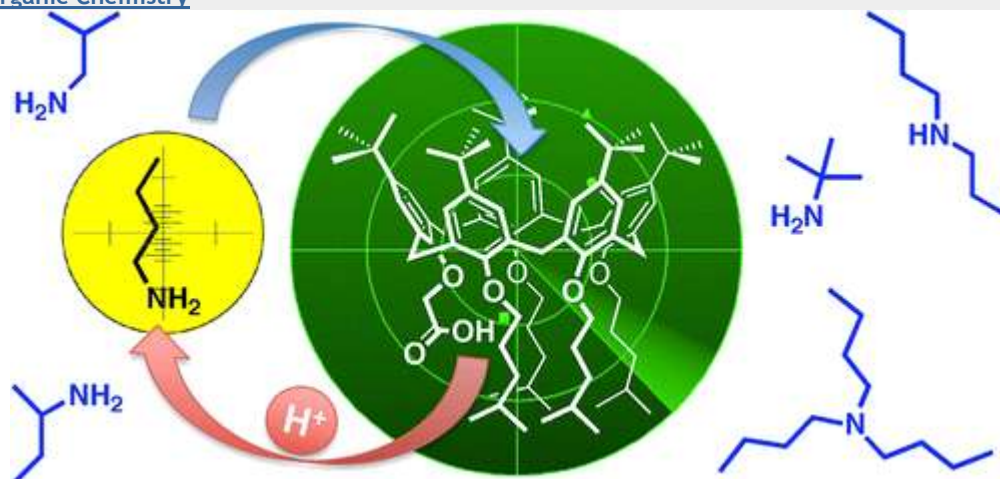
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Publication Date (Web): October 8, 2012 (Article)

DOI: 10.1021/jo301730m

CCS Section:

Physical Organic Chemistry



Linear and Cyclic Amides with a Thiophene Backbone: Ultrasound-Promoted Synthesis and Crystal Structures

Thien H. Ngo, Hülya Berndt, Dieter Lentz, and Hans-Ulrich Reissig

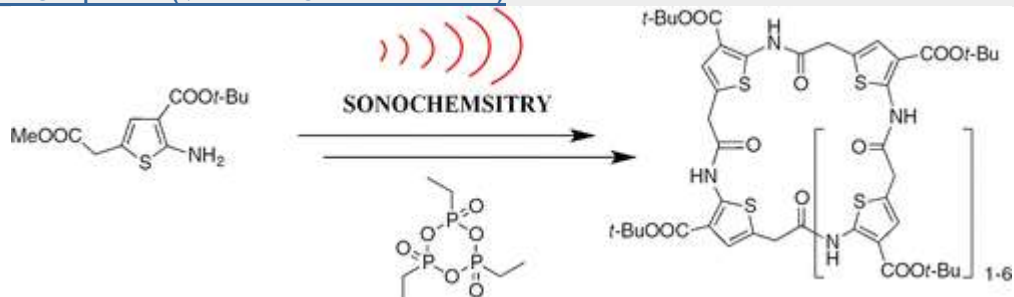
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Publication Date (Web): September 26, 2012 (Article)

DOI: 10.1021/jo3017605

 Section:

Heterocyclic Compounds (More than One Hetero Atom)



Stereochemical Requirements of Oxidative Cyclizations in Extended Iterative Organoiron-Mediated Routes to Alkaloids

G. Richard Stephenson, Caroline Roe, and Christopher E. Anson

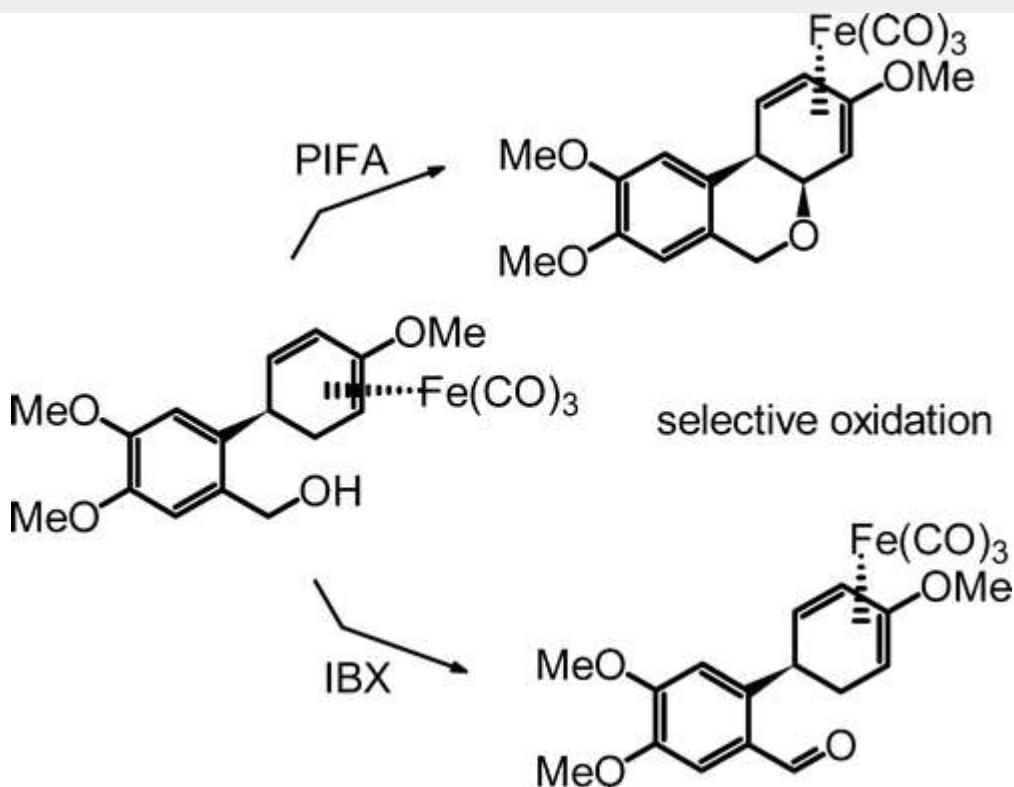
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DOI: 10.1021/jo301617f

 Section:

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Switchable Palladium-Catalyst Reaction of Bromomethyl Sulfoxides, CO, and N-Nucleophiles:

Aminocarbonylation at Csp³ versus Oxidative Carbonylation of Amines

Cristian Mollar, Carmen Ramirez de Arellano, Mercedes Medio-Simón, and Gregorio Asensio

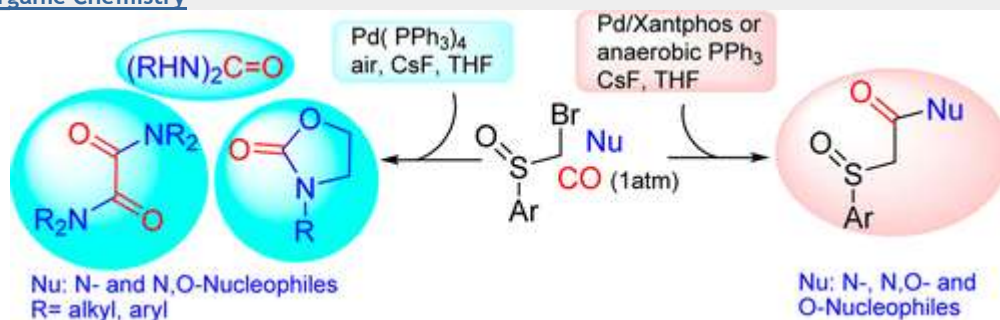
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Publication Date (Web): October 5, 2012 (Article)

DOI: 10.1021/jo301778n

Section:

General Organic Chemistry



Chemical Reactivity in Nucleophilic Cycloaddition to C₇₀: Vibronic Coupling Density and Vibronic Coupling Constants as Reactivity Indices

Naoki Haruta, Tohru Sato, and Kazuyoshi Tanaka

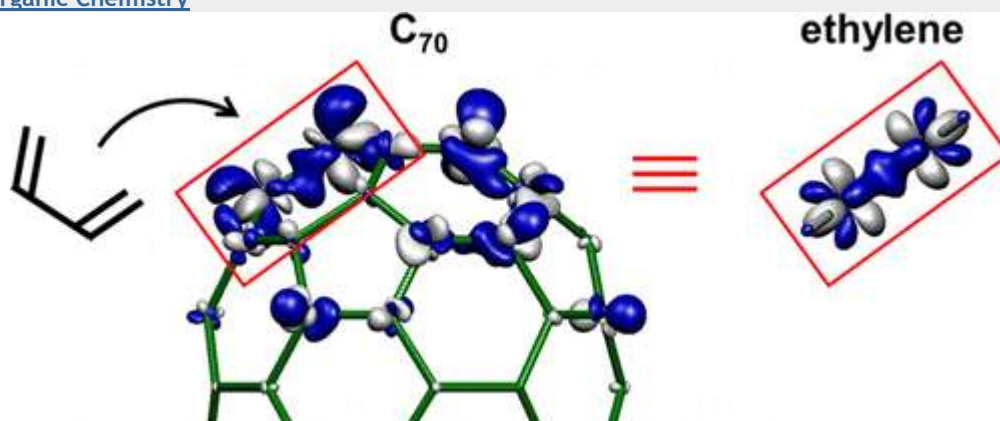
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DOI: 10.1021/jo301777d

Section:

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Synthesis of 2-Azaspiro[4.6]undec-7-enes from *N*-Tosyl-*N*-(3-arylpropargyl)-Tethered 3-Methylcyclohex-2-en-1-ols

Ming-Chang P. Yeh, Chia-Jung Liang, Chern-Wei Fan, Wei-Hang Chiu, and Jun-Yuan Lo

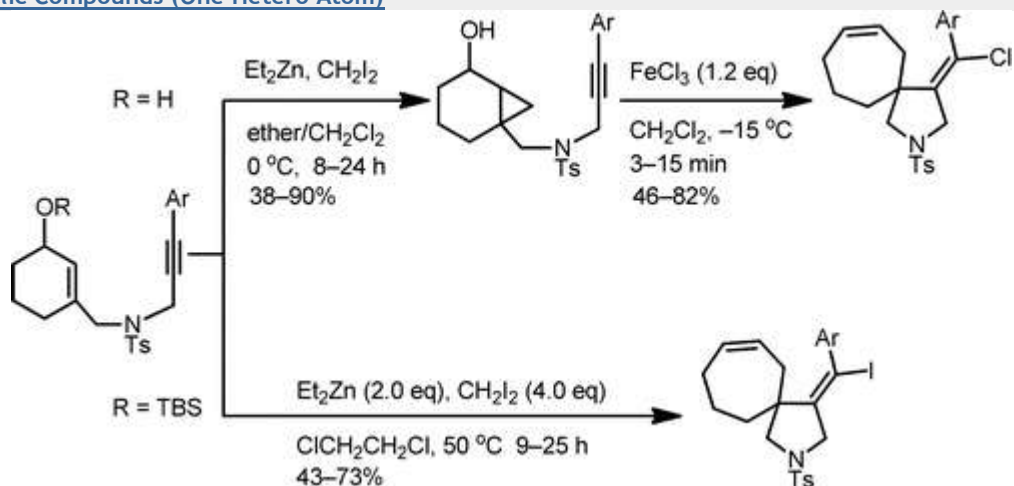
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Publication Date (Web): October 17, 2012 (Article)

DOI: 10.1021/jo301764g

Section:

Heterocyclic Compounds (One Hetero Atom)



Total Synthesis of (–)-Orthodiffenes A and C

Jun Liu, Yi Liu, Xing Zhang, Chaoli Zhang, Yangguang Gao, LinLin Wang, and Yuguo Du

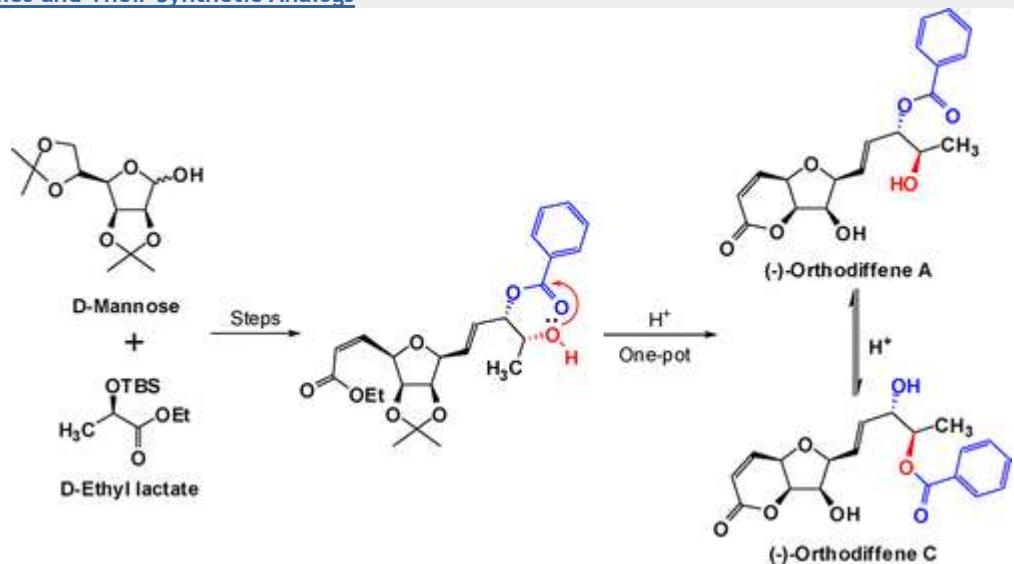
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Publication Date (Web): October 11, 2012 (Article)

DOI: 10.1021/jo301829p

Section:

Biomolecules and Their Synthetic Analogs



Absolute Configuration Assignment by Asymmetric Syntheses of the Homalium Alkaloids (-)-

(*R,R,R*)-Hoprominol and (-)-(4'*S*,4''*R*,2'''*R*)-Hopromalinol

Stephen G. Davies, James A. Lee, Paul M. Roberts, Jeffrey P. Stonehouse, and James E. Thomson

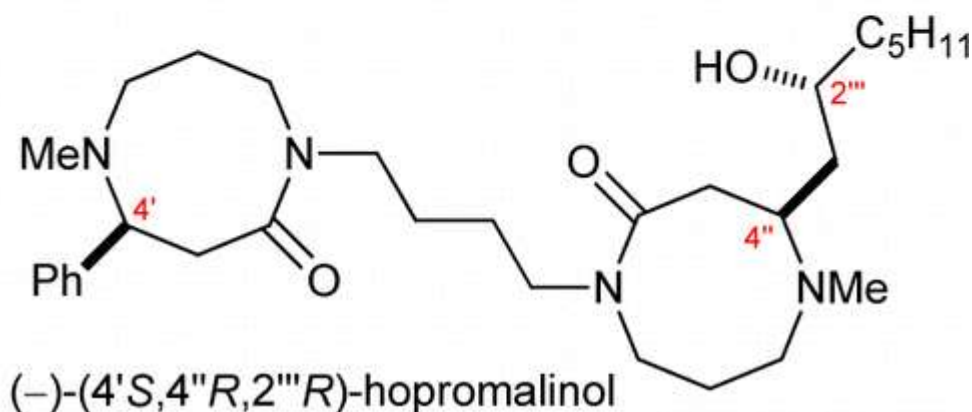
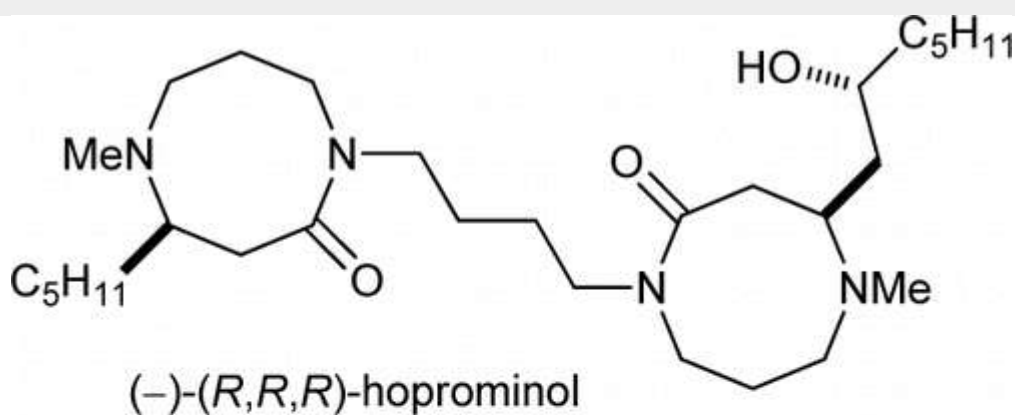
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Section:

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Mechanistic Assessment of S_NAr Displacement of Halides from 1-Halo-2,4-dinitrobenzenes by Selected Primary and Secondary Amines: Brønsted and Mayr Analyses

Ik-Hwan Um, Li-Ra Im, Ji-Sun Kang, Samantha S. Bursey, and Julian M. Dust

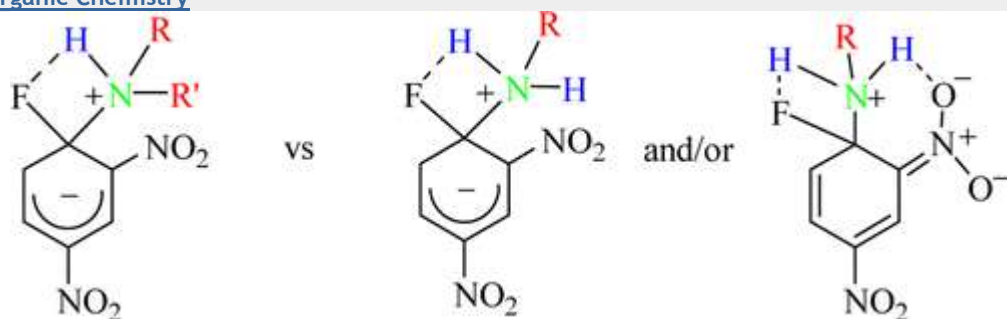
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Publication Date (Web): October 1, 2012 (Article)

DOI: 10.1021/jo301862b

Section:

[Physical Organic Chemistry](#)



Unusual Strain-Releasing Nucleophilic Rearrangement of a Bicyclo[2.2.1]heptane System to a Cyclohexenyl Derivative

Mansoureh Karimiahmadabadi, Andras Földesi, and Jyoti Chattopadhyaya

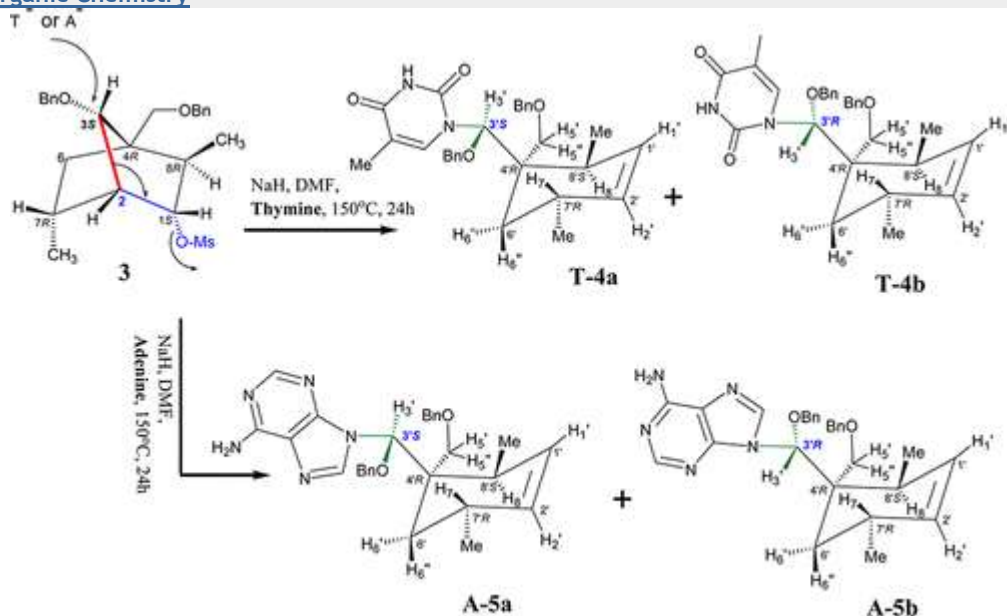
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Publication Date (Web): October 12, 2012 (Article)

DOI: 10.1021/jo301871d

Section:

Physical Organic Chemistry



Iridium-Catalyzed Asymmetric Ring-Opening of Oxabenzonorbornadienes with Phenols

Hanchao Cheng and Dingqiao Yang

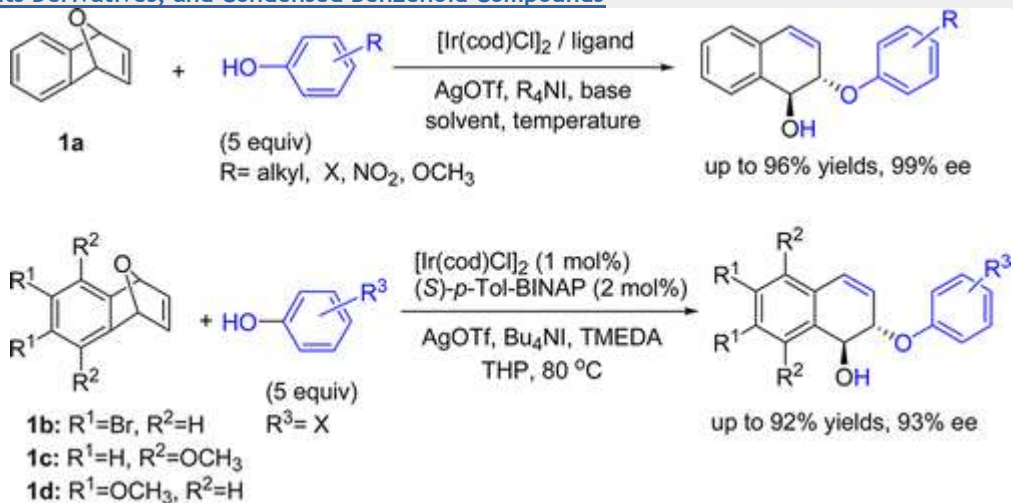
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Publication Date (Web): October 8, 2012 (Article)

DOI: 10.1021/jo3018507

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds



High Affinity Crown Ether Complexes in Water: Thermodynamic Analysis, Evidence of Crystallography and Binding of NAD⁺

Ling Chen, Heng-Yi Zhang, and Yu Liu

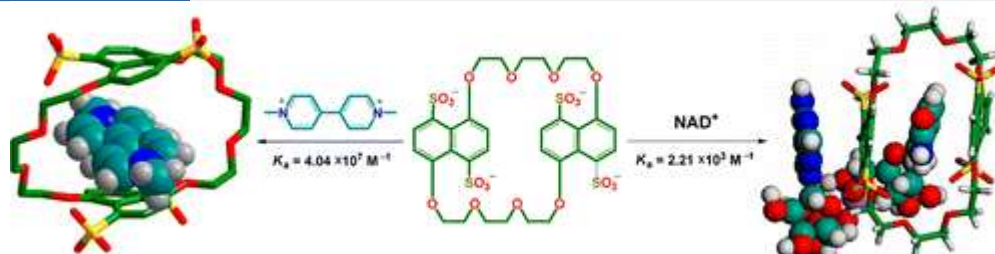
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Publication Date (Web): October 8, 2012 (Article)

DOI: 10.1021/jo301911w

Section:

Physical Organic Chemistry



Further Observations on Conformational and Substituent Effects in Acid-Catalyzed “3 + 1” Cyclizations of Tripyrranes with Aromatic Dialdehydes

Timothy D. Lash and Katrina M. Bergman

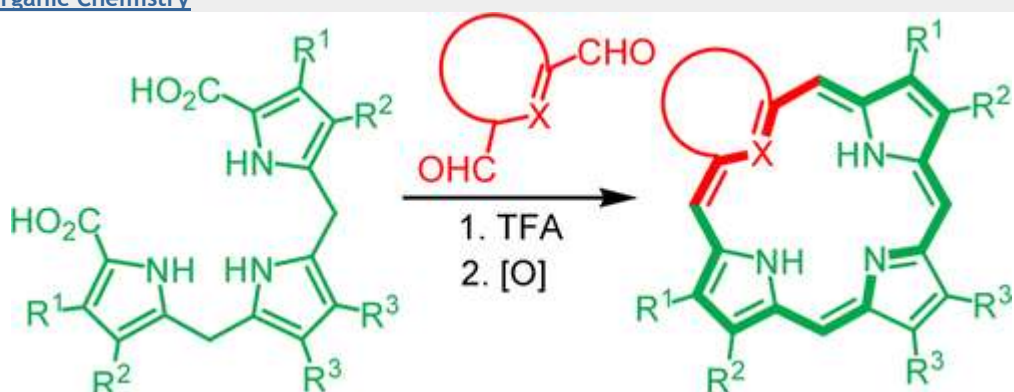
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DOI: 10.1021/jo301945f

Section:

Physical Organic Chemistry



Conformation of Eight-Membered Benzoannulated Lactams by Combined NMR and DFT

Studies

Agnieszka Witosińska, Bogdan Musielak, Paweł Serda, Maria Owińska, and Barbara Rys

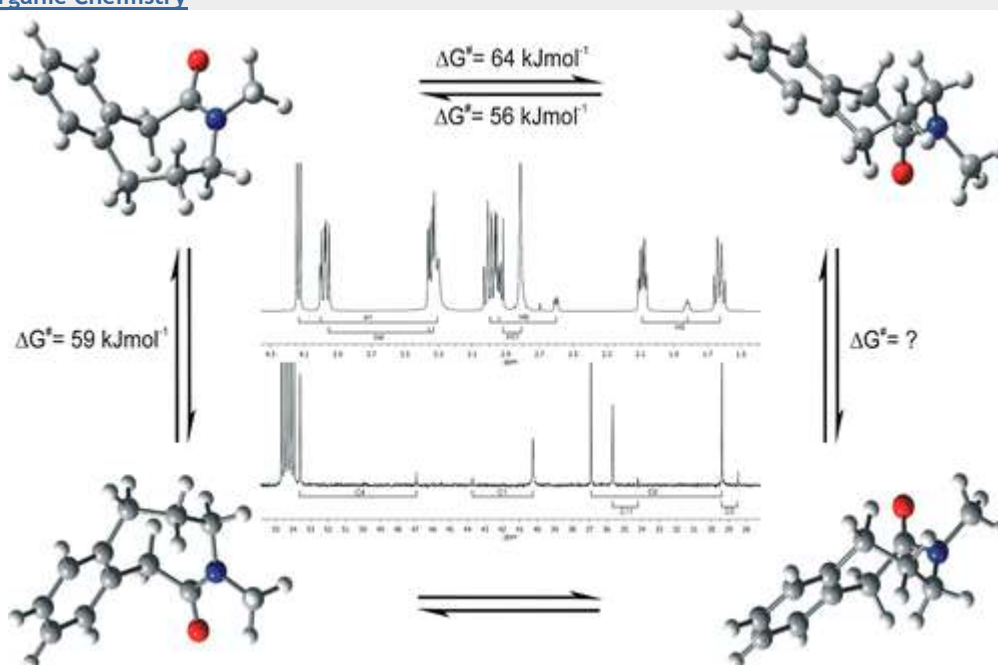
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Publication Date (Web): October 15, 2012 (Article)

DOI: 10.1021/jo301859h

CCS Section:

Physical Organic Chemistry



Secondary Structure of Short β -Peptides as the Chiral Expression of Monomeric Building Units: A Rational and Predictive Model

Esther Gorrea, Gábor Pohl, Pau Nolis, Sergio Celis, Kepa K. Burusco, Vicenç Branchadell, András Perczel, and Rosa M. Ortuno

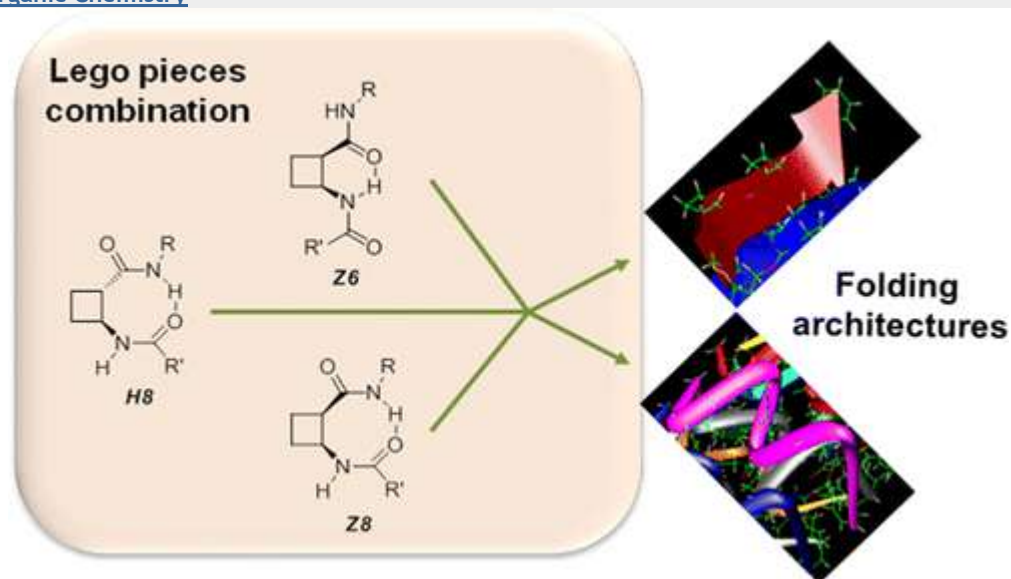
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Publication Date (Web): October 3, 2012 (Article)

DOI: 10.1021/jo302034b

CCS Section:

Physical Organic Chemistry



Reactivities of Amino Acid Derivatives Toward Hydrogen Abstraction by Cl^- and OH^-

Bun Chan, Robert J. O'Reilly, Christopher J. Easton, and Leo Radom

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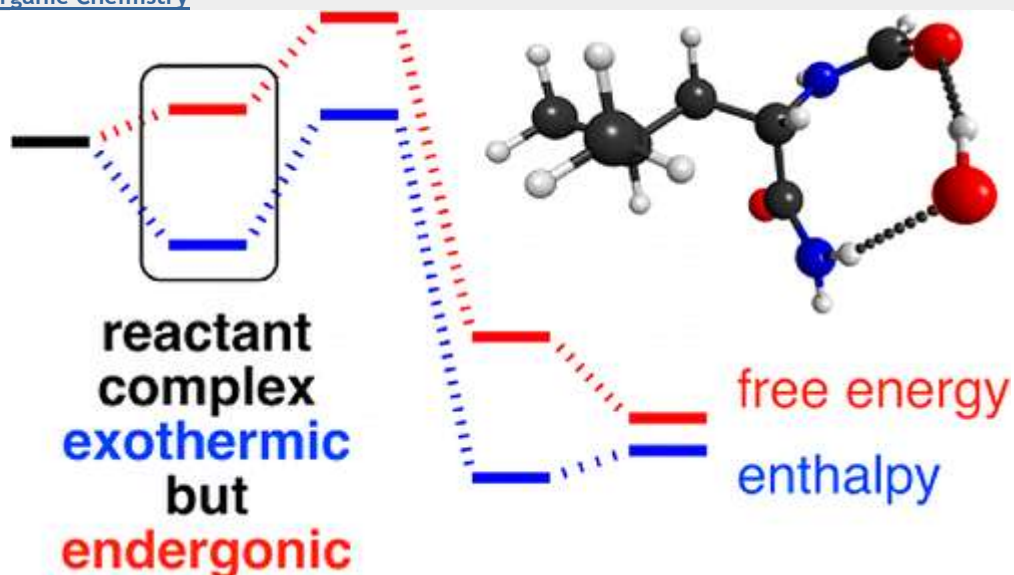
Publication Date (Web): October 12, 2012 (Article)

DOI: 10.1021/jo3021538



Section:

Physical Organic Chemistry



Insights into the Dual Activation Mechanism Involving Bifunctional Cinchona Alkaloid

Thiourea Organocatalysts: An NMR and DFT Study

Jun-Ling Zhu, Yong Zhang, Chong Liu, An-Min Zheng, and Wei Wang

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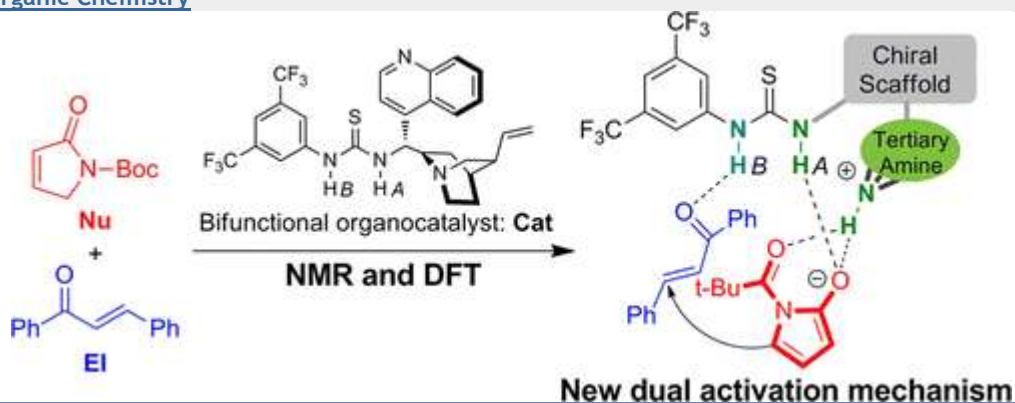
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Section:

Physical Organic Chemistry



NOTES


The Galactosamine Residue in Mycobacterial Arabinogalactan Is α -Linked

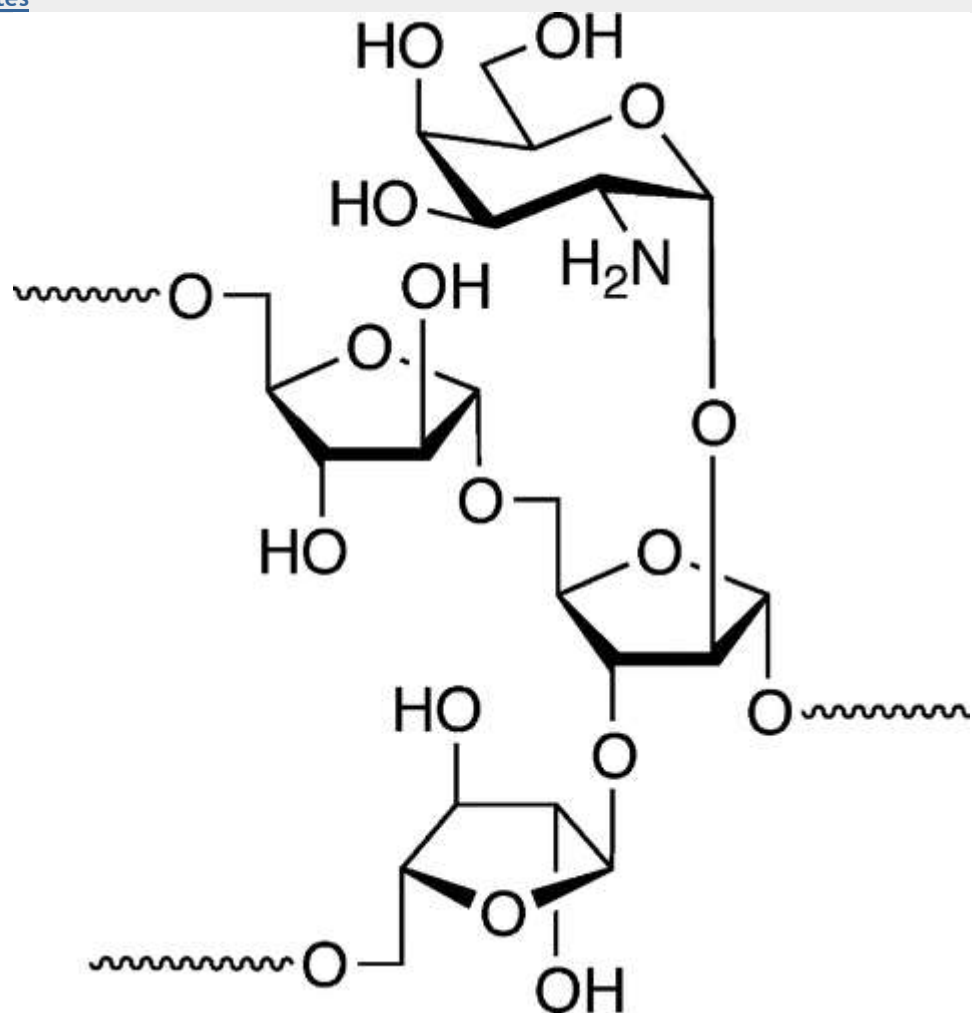
Wenjie Peng, Lu Zou, Suresh Bhamidi, Michael R. McNeil, and Todd L. Lowary

pp 9826-9832

Publication Date (Web): October 8, 2012 (Note)

DOI: 10.1021/jo301393s

 Section:
[Carbohydrates](#)



Azepane Quaternary Amino Acids As Effective Inducers of 3₁₀ Helix Conformations

Diego Núñez-Villanueva, Lourdes Infantes, M. Teresa García-López, Rosario González-Muñiz, and Mercedes Martín-Martínez

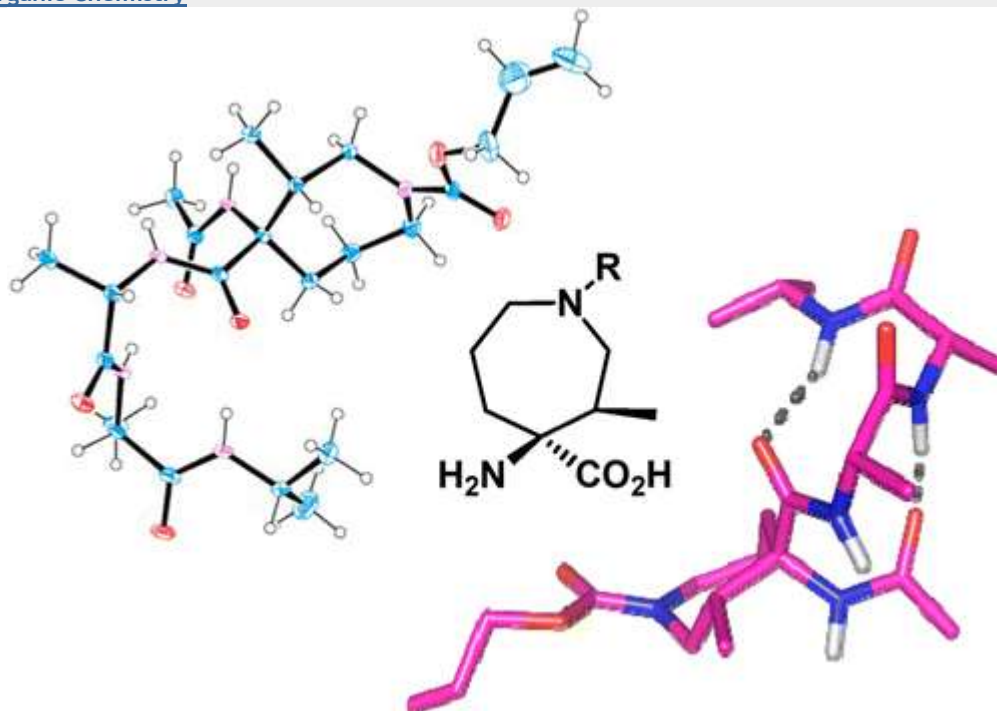
pp 9833-9839

Publication Date (Web): October 11, 2012 (Note)

DOI: 10.1021/jo301379r

CCS Section:

[Physical Organic Chemistry](#)



Formal Total Synthesis of (+)-Neopeltolide

Sudhakar Athe, Balla Chandrasekhar, Saumya Roy, Tapan Kumar Pradhan, and Subhash Ghosh

pp 9840-9845

Publication Date (Web): October 5, 2012 (Note)

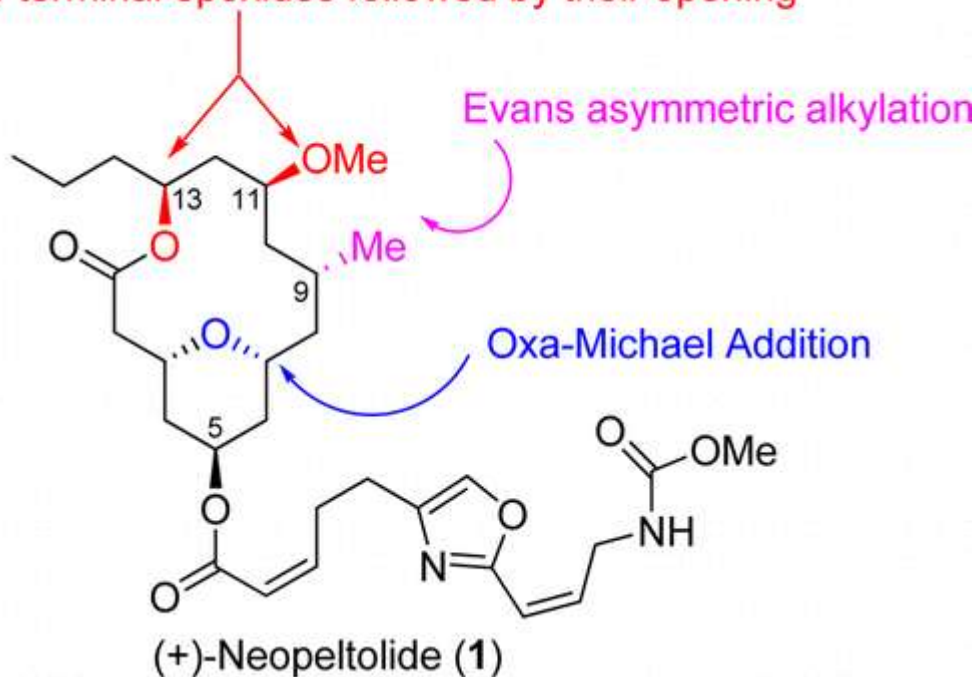
DOI: 10.1021/jo301425c



Section:

Biomolecules and Their Synthetic Analogs

Jacobsen hydrolytic kinetic resolution
of terminal epoxides followed by their opening



Brønsted Acid-assisted Intramolecular Aminohydroxylation of *N*-Alkenylsulfonamides under Heavy Metal-free Conditions

Katsuhiko Moriyama, Yuta Izumisawa, and Hideo Togo

pp 9846-9851

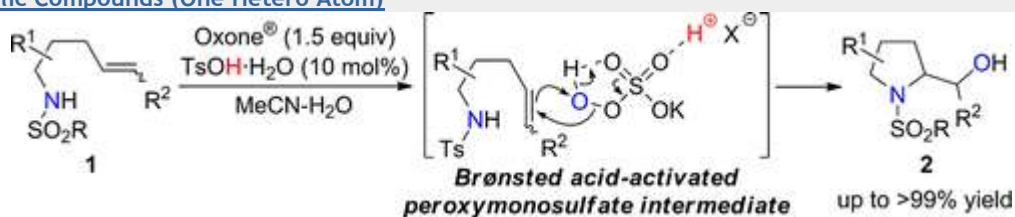
Publication Date (Web): October 10, 2012 (Note)

DOI: 10.1021/jo301523a



Section:

Heterocyclic Compounds (One Hetero Atom)



Solid-Phase Synthesis of Phenylalanine Containing Peptides Using a Traceless Triazene Linker

Linker

Carolina Torres-García, Daniel Pulido, Magdalena Carceller, Iván Ramos, Miriam Royo, and Ernesto Nicolás

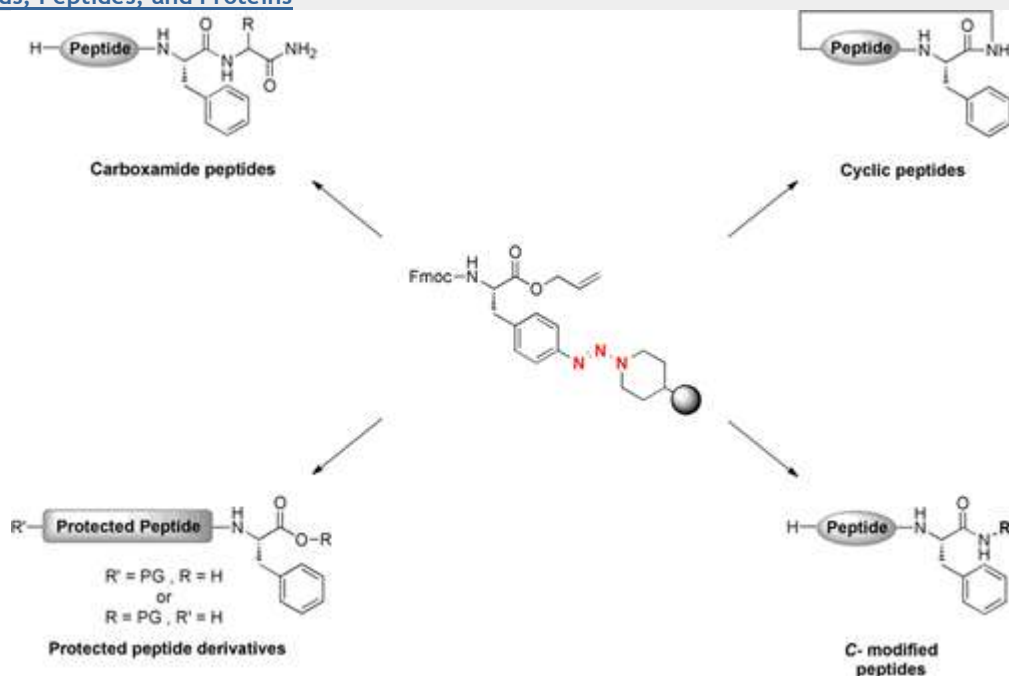
pp 9852-9858

Publication Date (Web): September 28, 2012 (Note)

DOI: 10.1021/jo301630h

Section:

Amino Acids, Peptides, and Proteins



Total Synthesis and Structural Revision of Lucentamycin A

Sujeewa Ranatunga, Chih-Hang Anthony Tang, Chih-Chi Andrew Hu, and Juan R. Del Valle

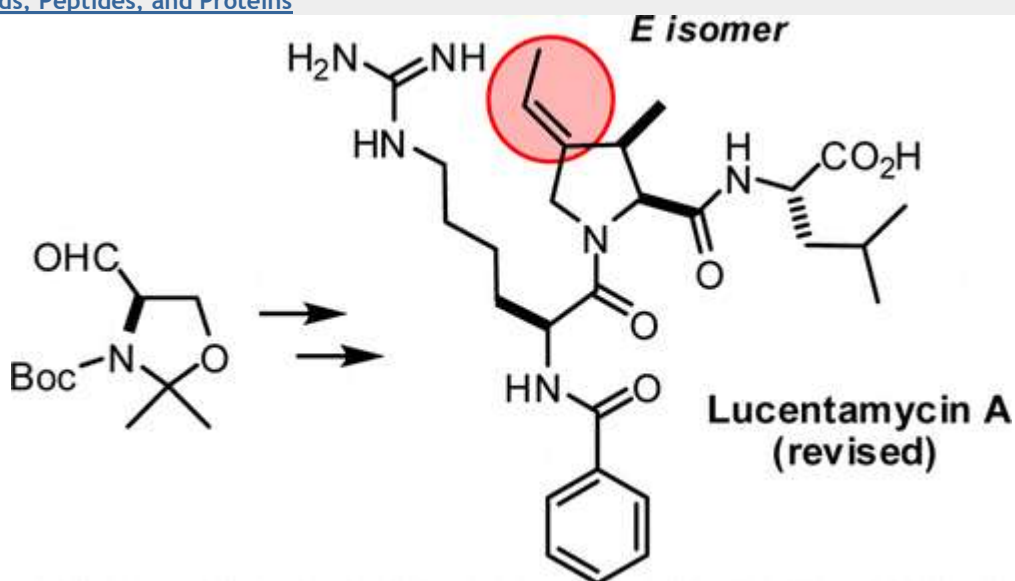
pp 9859-9864

Publication Date (Web): October 5, 2012 (Note)

DOI: 10.1021/jo301723y

Section:

Amino Acids, Peptides, and Proteins



Unexpected C–C Bond Cleavage: A Route to 3,6-Diarylpyridazines and 6-Arylpyridazin-3-ones from 1,3-Dicarbonyl Compounds and Methyl Ketones

Qinghe Gao, Yanping Zhu, Mi Lian, Meicai Liu, Jingjing Yuan, Guodong Yin, and Anxin Wu

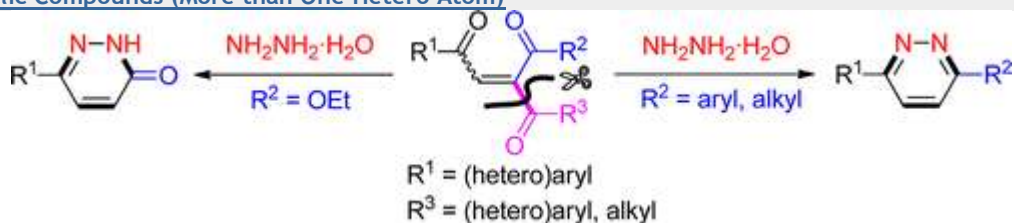
pp 9865-9870

Publication Date (Web): October 12, 2012 (Note)

DOI: 10.1021/jo301751e

Section:

Heterocyclic Compounds (More than One Hetero Atom)



Preparation of 3,4,5-Trisubstituted Oxazolones by Pd-Catalyzed Coupling of *N*-Alkynyl *tert*-Butyloxycarbamates with Aryl Halides and Related Electrophiles

Zenghui Lu, Weijian Cui, Siyuan Xia, Yihui Bai, Fang Luo, and Gangguo Zhu

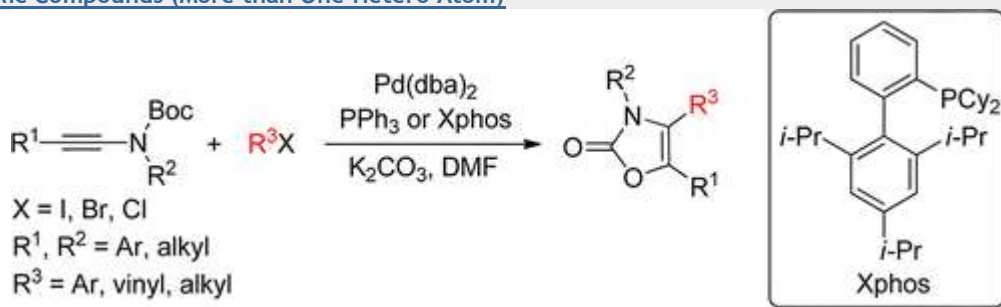
pp 9871-9877

Publication Date (Web): October 8, 2012 (Note)

DOI: 10.1021/jo301794w

Section:

Heterocyclic Compounds (More than One Hetero Atom)



Chlorosilane-Promoted Addition Reaction of Isocyanides to 3,4-Dihydroisoquinoline *N*-Oxides

Takahiro Soeta, Shuhei Fujinami, and Yutaka Ukaji

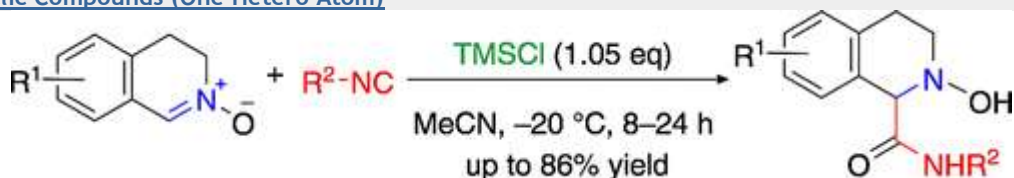
pp 9878-9883

Publication Date (Web): October 16, 2012 (Note)

DOI: 10.1021/jo301791m

Section:

Heterocyclic Compounds (One Hetero Atom)



Methyltrioxorhenium-Catalyzed Epoxidation of Homoallylic Alcohols with Hydrogen Peroxide

Shigekazu Yamazaki

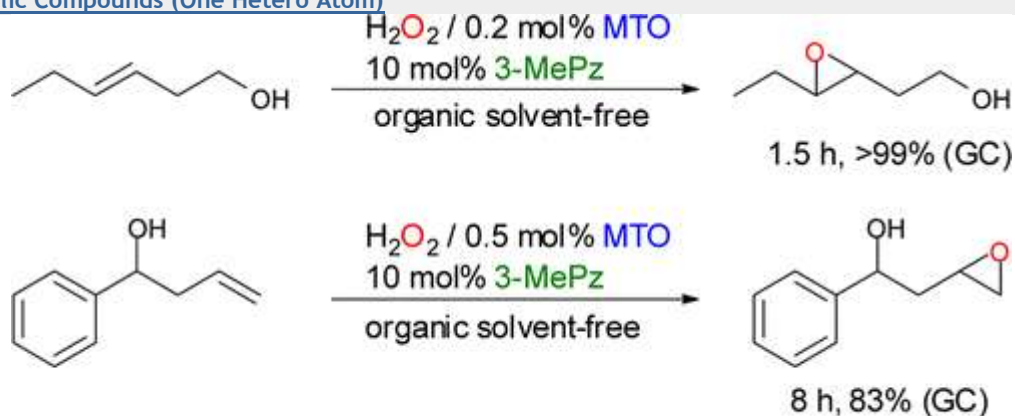
pp 9884-9888

Publication Date (Web): October 5, 2012 (Note)

DOI: 10.1021/jo301825j

CCS Section:

Heterocyclic Compounds (One Hetero Atom)



3-MePz : 3-methylpyrazole

Automated Solid-Phase Synthesis of RNA Oligonucleotides Containing a Nonbridging Phosphorodithioate Linkage via Phosphorothioamidites

Nan-Sheng Li, John K. Frederiksen, and Joseph A. Piccirilli

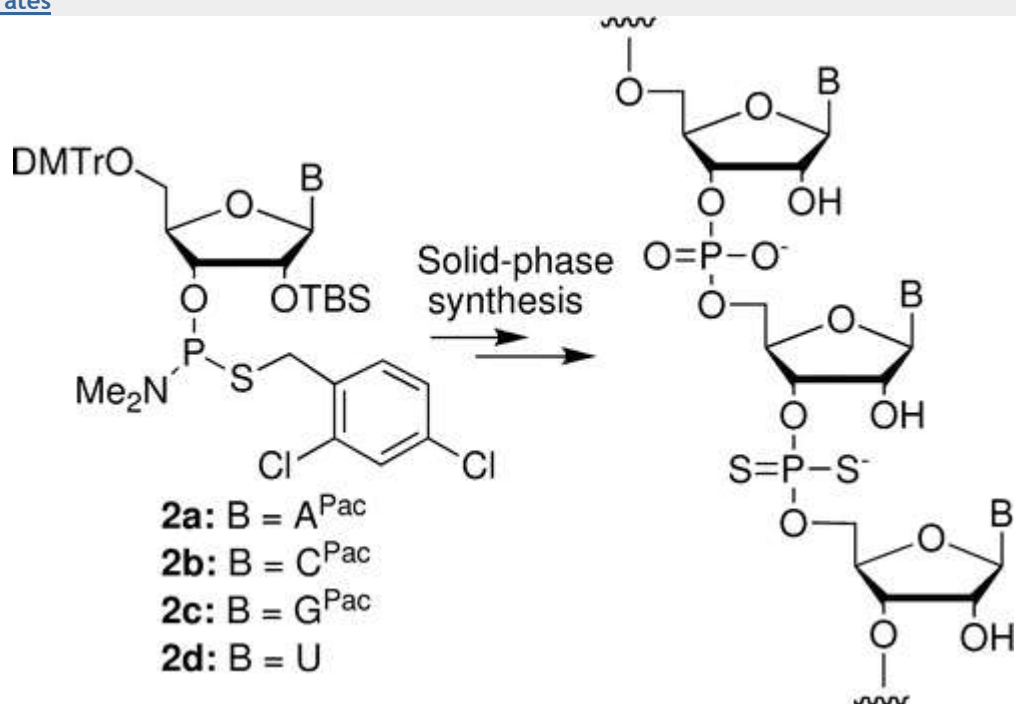
pp 9889-9892

Publication Date (Web): October 10, 2012 (Note)

DOI: 10.1021/jo301834p

CCS Section:

Carbohydrates



Three-Component Heterocyclization of *gem*-Bromofluorocyclopropanes with NOBF₄: Access to 4-Fluoropyrimidine *N*-Oxides

Kseniya N. Sedenkova, Elena B. Averina, Yuri K. Grishin, Andrei G. Kutateladze, Victor B. Rybakov, Tamara S. Kuznetsova, and Nikolay S. Zefirov

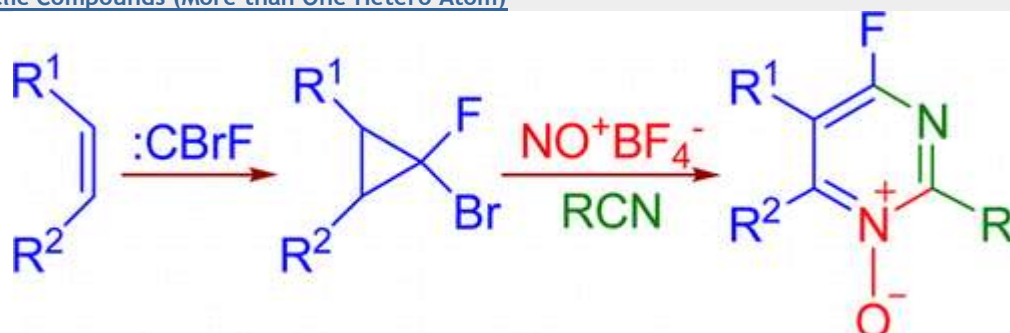
pp 9893-9899

Publication Date (Web): October 18, 2012 (Note)

DOI: 10.1021/jo301880m

Section:

Heterocyclic Compounds (More than One Hetero Atom)



Facially Selective Cu-Catalyzed Carbozincation of Cyclopropenes Using Arylzinc Reagents Formed by Sequential I/Mg/Zn Exchange

Vinod Tarwade, Ramajeyam Selvaraj, and Joseph M. Fox

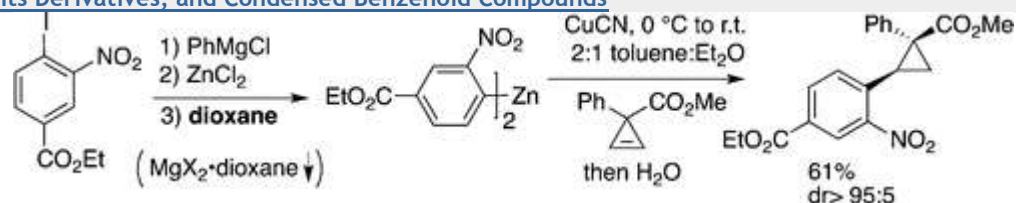
pp 9900-9904

Publication Date (Web): October 5, 2012 (Note)

DOI: 10.1021/jo3019076

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds



Synthesis of Substituted Thiophenes by Palladium-Catalyzed Heterocyclodehydration of 1-Mercapto-3-yn-2-ols in Conventional and Nonconventional Solvents

Bartolo Gabriele, Raffaella Mancuso, Lucia Veltri, Vito Maltese, and Giuseppe Salerno

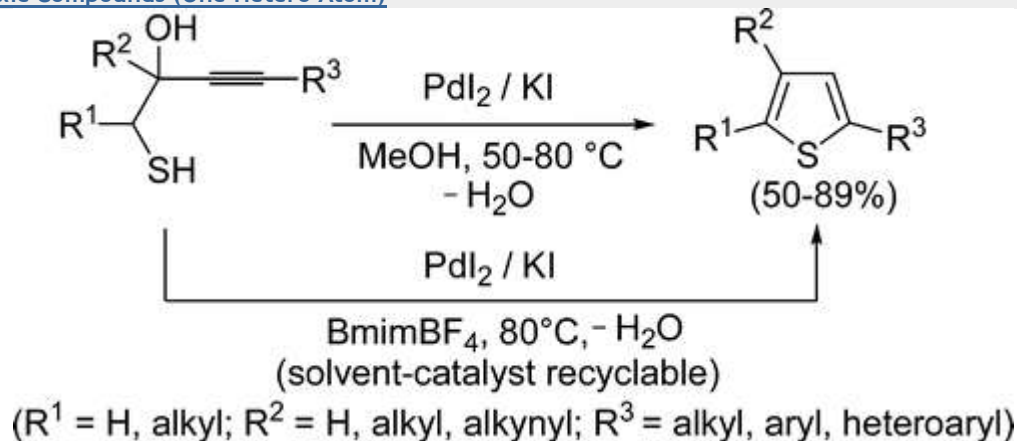
pp 9905-9909

Publication Date (Web): October 8, 2012 (Note)

DOI: 10.1021/jo301943k

Section:

Heterocyclic Compounds (One Hetero Atom)



Stereoelectronic Effects in the Fragmentation of γ -Silyloxy- β -hydroxy- α -diazocarbonyl

Compounds

Nitinkumar D. Jabre and Matthias Brewer

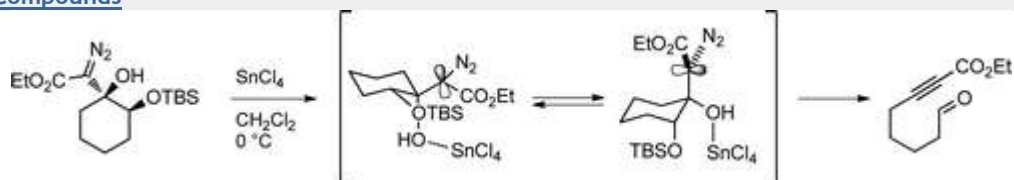
pp 9910-9914

Publication Date (Web): October 15, 2012 (Note)

DOI: 10.1021/jo301944t

Section:

Aliphatic Compounds



Pinacolborane as the Boron Source in Nitrogen-Directed Borylations of Aromatic *N,N*-Dimethylhydrazones

Rocío López-Rodríguez, Abel Ros, Rosario Fernández, and José M. Lassaletta

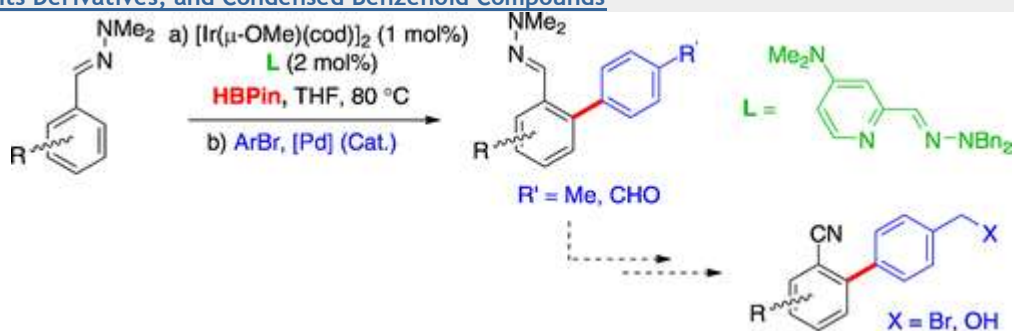
pp 9915-9920

Publication Date (Web): October 16, 2012 (Note)

DOI: 10.1021/jo301965v

Section:

Benzene, Its Derivatives, and Condensed Benzenoid Compounds



Room-Temperature Hydrodehalogenation of Halogenated Heteropentalenes with One or Two Heteroatoms

Giorgio Chelucci, Salvatore Baldino, and Andrea Ruiu

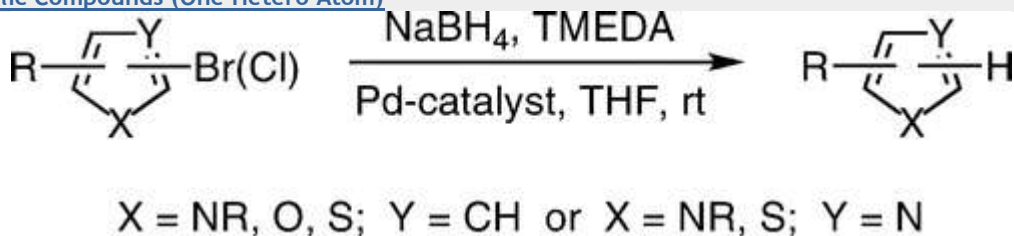
pp 9921-9925

Publication Date (Web): October 17, 2012 (Note)

DOI: 10.1021/jo3019335

Section:

Heterocyclic Compounds (One Hetero Atom)



α,β -Unsaturated Diazoketones as Platforms in the Asymmetric Synthesis of Hydroxylated Alkaloids. Total Synthesis of 1-Deoxy-8,8a-diepicastanospermine and 1,6-Dideoxyepicastanospermine and Formal Synthesis of Pumiliotoxin 251D

Barbara Bernardim, Vagner D. Pinho, and Antonio C. B. Burtoloso

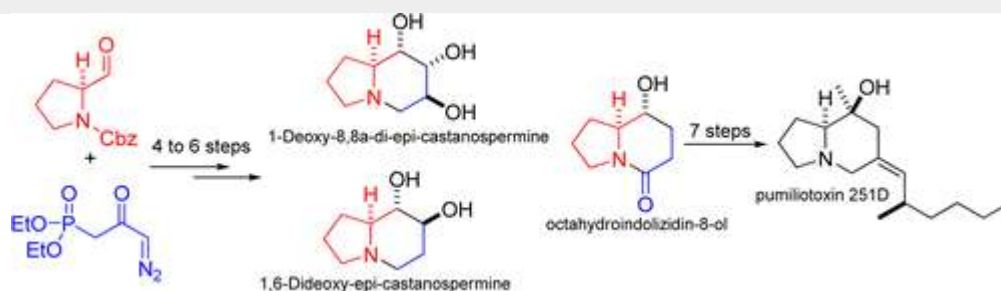
pp 9926-9931

Publication Date (Web): October 15, 2012 (Note)

DOI: 10.1021/jo301967w

Section:

Alkaloids



ADDITIONS AND CORRECTIONS

Withdrawn on November 2, 2012

Cyclic Sulfur Ylides from α -Amino Acids. 1. Design, Synthesis, and Reactivity

Francisco Sarabia, Carlos Vivar-García, Cristina García-Ruiz, Francisca Martín-Gálvez, Antonio Romero-Carrasco, and Antonio Sánchez-Ruiz

pp 9932-9932

Publication Date (Web): July 30, 2012 (Addition/Correction)

DOI: 10.1021/jo300677f

Section:

Heterocyclic Compounds (One Hetero Atom)