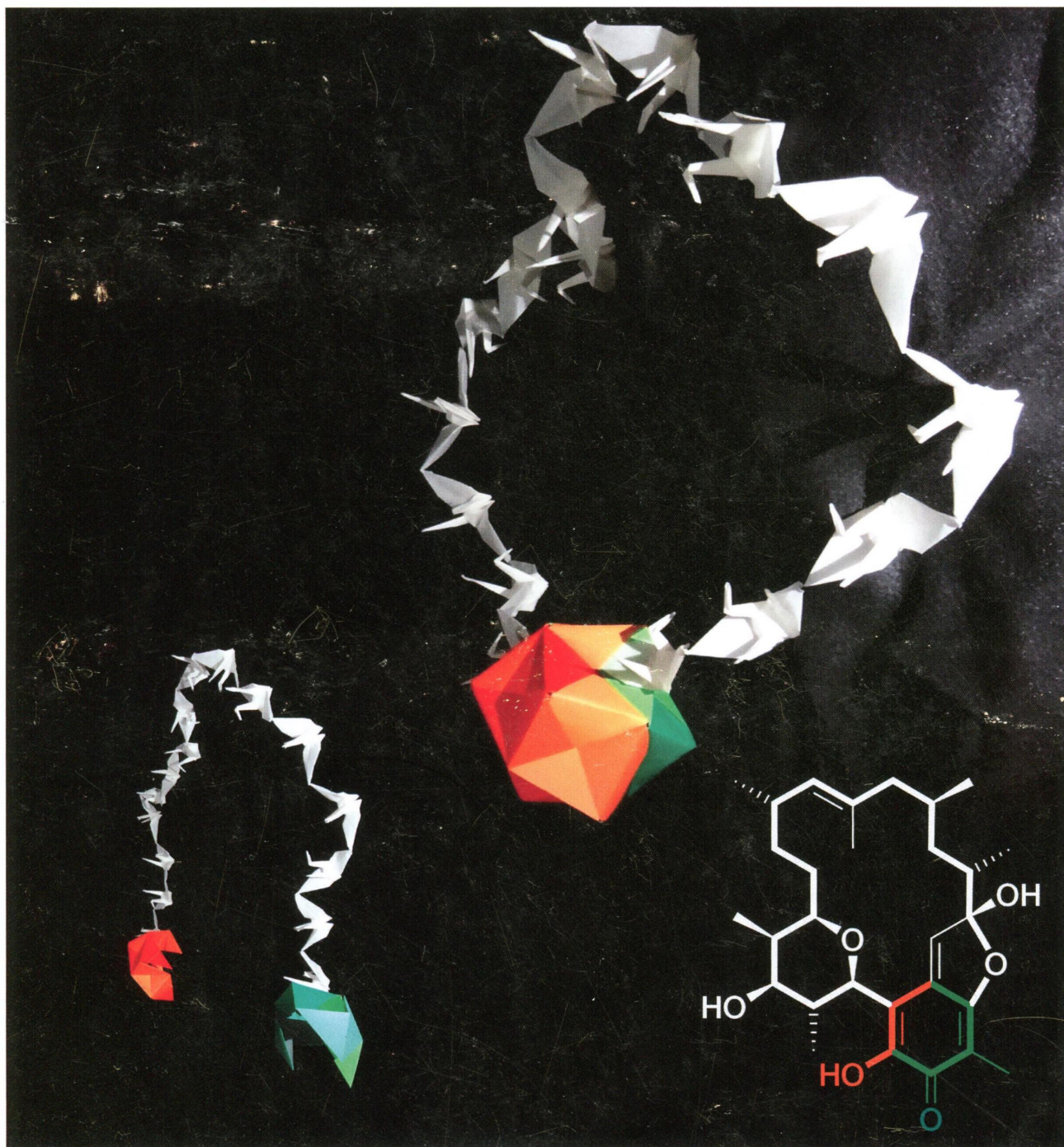


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ON THE COVER: A Fischer-type chromium carbene complex at a terminus of the long aliphatic chain, represented as connected paper cranes in the cover picture, was subjected to benzannulation with a triple bond at another terminus of the chain to make an ansa-skeleton. Synthesis and biological evaluation of an ansa-type macrocycle kendomycin and its analogues are described. See Saikawa and co-workers, p 9922.

Editorial

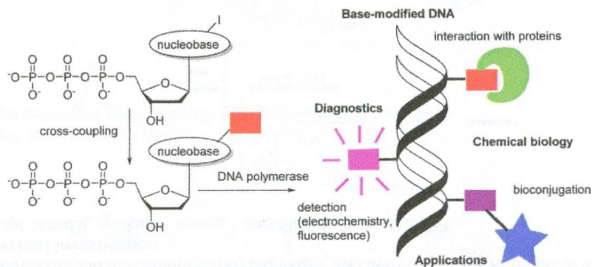
9913 DOI: 10.1021/jo502354a

The Toolbox of Synthetic Reactions: A Key to Unlock the Design of Structure for Function
Barry M. Trost*

JOCSynopsis

9914 DOI: 10.1021/jo5020799

Synthesis of Base-Modified 2'-Deoxyribonucleoside Triphosphates and Their Use in Enzymatic Synthesis of Modified DNA for Applications in Bioanalysis and Chemical Biology
Michal Hocek*

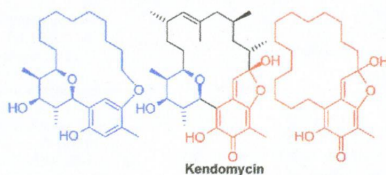


9922 

DOI: 10.1021/jo5015273

Synthesis and Biological Evaluation of Kendomycin and Its Analogues

Kyosuke Tanaka, Hiroshi Matsuyama, Masahito Watanabe, Yukiko Fujimori, Kodai Ishibashi, Tomohiro Ozawa, Tomoharu Sato, Yoko Saikawa,* and Masaya Nakata*

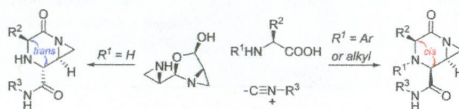


9948 

DOI: 10.1021/jo5018316

Stereocontrolled Disruption of the Ugi Reaction toward the Production of Chiral Piperazinones: Substrate Scope and Process Development

Serge Zaretsky, Shinya Adachi, Benjamin H. Rotstein, Jennifer L. Hickey, Conor C. G. Scully, Jeffrey D. St. Denis, Rebecca Courtemanche, Joy C. Y. Yu, Benjamin K. W. Chung, and Andrei K. Yudin*



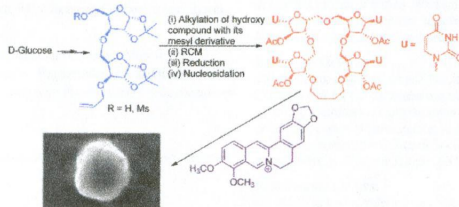
Articles

9958 

DOI: 10.1021/jo501857k

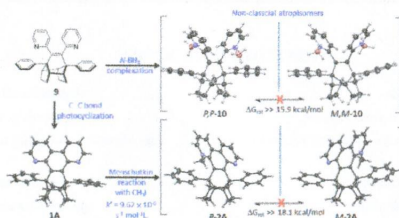
Ring-Closing Metathesis and Glycosylation Reactions: Synthesis and Biophysical Studies of Polyether-Linked Carbohydrate-Based Macrocyclic Nucleosides

Soumendra Nath Das, Richa Rana, Sabyasachi Chatterjee, Gopinatha Suresh Kumar, and Sukhendu B. Mandal*



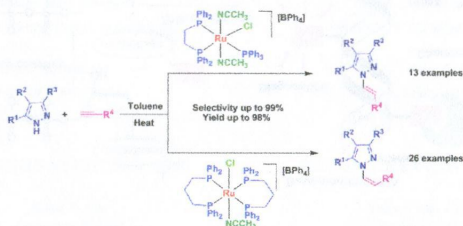
Deformative Transition of the Menschutkin Reaction and Helical Atropisomers in a Congested Polyheterocyclic System

Yung-Yu Chang, Tse-Lok Ho,* and Wen-Sheng Chung*



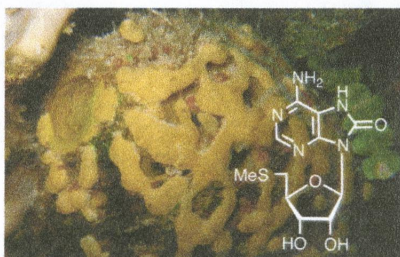
Structure–Selectivity Relationship in Ruthenium-Catalyzed Regio- and Stereoselective Addition of Alkynes to Pyrazoles: An Experimental and Theoretical Investigation

Uttam Kumar Das, Subhajt Mandal, Anakuthil Anoop,* and Manish Bhattacharjee*



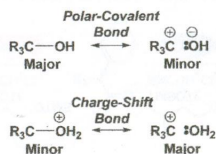
Salvadenosine, a 5'-Deoxy-5'-(methylthio) Nucleoside from the Bahamian Tunicate *Didemnum* sp.

Matthew T. Jamison, Christopher N. Boddy, and Tadeusz F. Molinski*

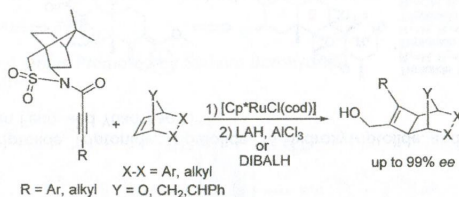


Protonated Alcohols Are Examples of Complete Charge-Shift Bonds

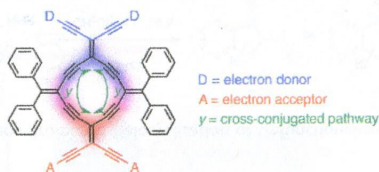
Peter Anderson, Alban Petit, Junming Ho, Mariusz Pawel Mitoraj, Michelle L. Coote, David Danovich, Sason Shaik, Benoît Braïda,* and Daniel H. Ess*

**Ruthenium-Catalyzed Asymmetric [2 + 2] Cycloadditions between Chiral Acyl Camphorsultam-Substituted Alkynes and Bicyclic Alkenes**

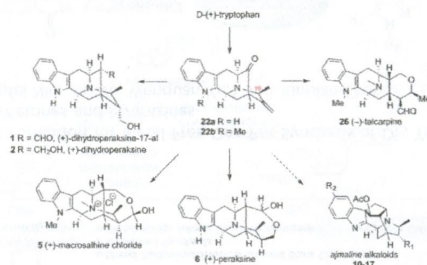
Jordan Goodreid, Karine Villeneuve, Emily Carlson, and William Tam*

**Donor- and/or Acceptor-Substituted Expanded Radialenes: Theory, Synthesis, and Properties**

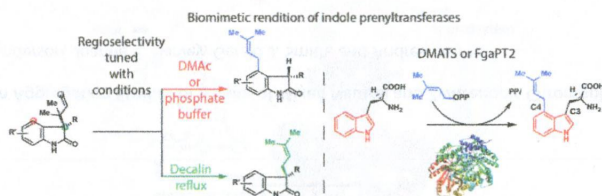
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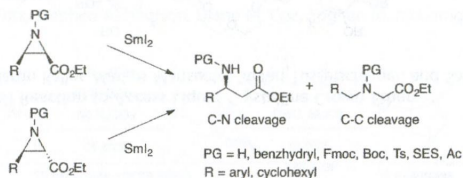
General Strategy for Synthesis of C-19 Methyl-Substituted *Sarpagine/Macroline/Ajmaline* Indole Alkaloids Including Total Synthesis of 19(S),20(R)-Dihydroperaksine, 19(S),20(R)-Dihydroperaksine-17-al, and Peraksine
Rahul V. Edwankar, Chitra R. Edwankar, Jeffrey R. Deschamps, and James M. Cook*



Regioselective Cope Rearrangements and Prenyl Transfers on Indole Scaffold Mimicking Fungal and Bacterial Dimethylallyltryptophan Synthases
Karthikeyan Thandavamurthy, Deepti Sharma, Suheel K. Porwal, Dale Ray, and Rajesh Viswanathan*

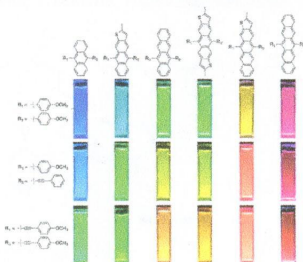


β -Amino Esters from the Reductive Ring Opening of Aziridine-2-carboxylates
Wenjun Zhao, Zhenjie Lu, and William D. Wulff*



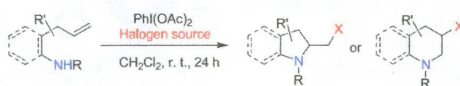
Electronic Effects of Ring Fusion and Alkyne Substitution on Acene Properties and Reactivity

Jingjing Zhang, Zachary C. Smith, and Samuel W. Thomas III*



Regioselective (Diacetoxyiodo)benzene-Promoted Halocyclization of Unfunctionalized Olefins

Gong-Qing Liu and Yue-Ming Li*

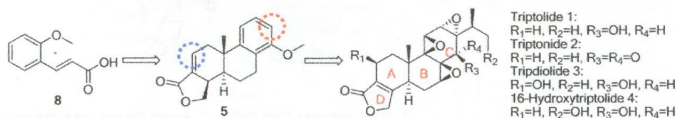


- C-N and C-X bond formation
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- Under metal-free and mild conditions
- Broad substrate scope
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- Easy and simple procedure

X = I, Br, Cl, F
81 Examples
Up to 97% isolated yields

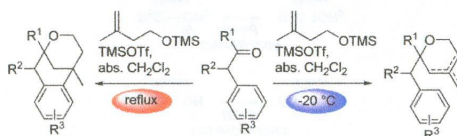
Divergent Total Synthesis of Triptolide, Triptonide, Tripdiolide, 16-Hydroxytriptolide, and Their Analogues

Hongtao Xu, Huanyu Tang, Huijin Feng, and Yuanchao Li*



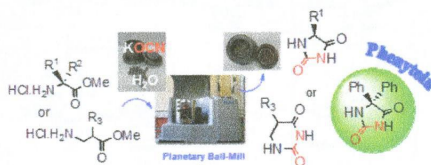
Variants of the Prins Cyclization for the Synthesis of Terpenoid Spiroethers and Oxabicyclo[3.3.1]Nonane Derivatives

Verena Weidmann, Jasper Ploog, Serge Kliewer, Mathias Schaffrath, and Wolfgang Maison*



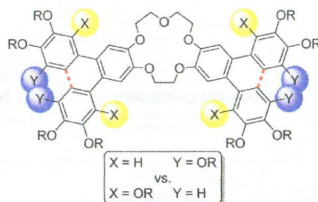
Mechanochemical Preparation of Hydantoin from Amino Esters: Application to the Synthesis of the Antiepileptic Drug Phenytoin

Laure Konnert, Benjamin Reneaud, Renata Marcia de Figueiredo, Jean-Marc Campagne, Frédéric Lamaty, Jean Martinez, and Evelina Colacino*



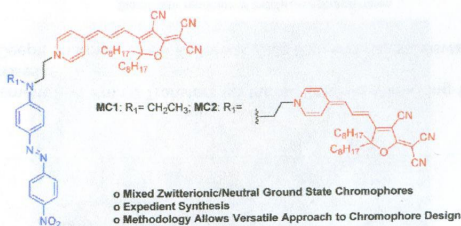
Pushing Steric Bias in the Scholl Reaction to Access Liquid Crystalline Crown Ethers

Tobias Wöhrle, Jochen Kirres, Martin Kaller, Markus Mansueto, Stefan Tussetschläger, and Sabine Laschat*



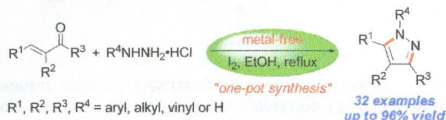
Synthesis and Solution Aggregation Studies of a Suite of Mixed Neutral and Zwitterionic Chromophores for Second-Order Nonlinear Optics

Victoria Peddie, Jack Anderson, Joanne E. Harvey, Gerald J. Smith, and Andrew Kay*



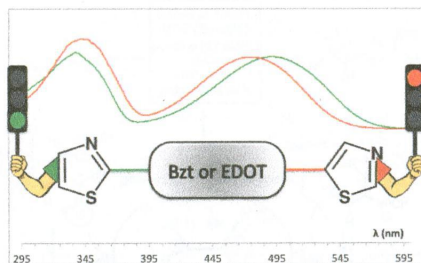
I₂-Mediated Oxidative C–N Bond Formation for Metal-Free One-Pot Synthesis of Di-, Tri-, and Tetrasubstituted Pyrazoles from α,β -Unsaturated Aldehydes/Ketones and Hydrazines

Xinting Zhang, Jinfeng Kang, Pengfei Niu, Jie Wu, Wenquan Yu,* and Junbiao Chang*



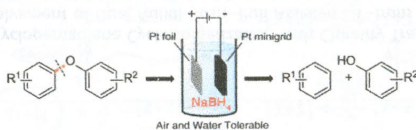
Synthesis by Direct Arylation of Thiazole–Derivatives: Regioisomer Configurations–Optical Properties Relationship Investigation

Patricia Chávez, Chheng Ngov, Pierre de Frémont, Patrick Lévêque,* and Nicolas Leclerc*



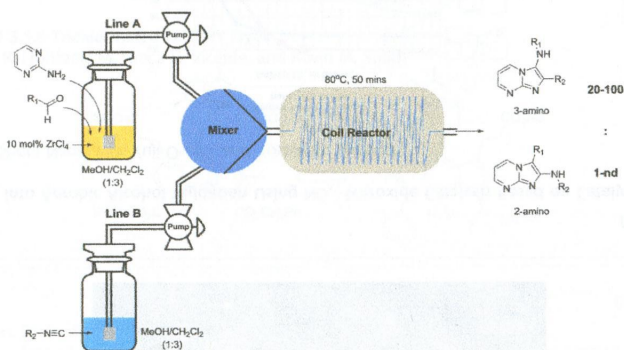
Electrochemical Cleavage of Aryl Ethers Promoted by Sodium Borohydride

Wen-Bin Wu and Jing-Mei Huang*

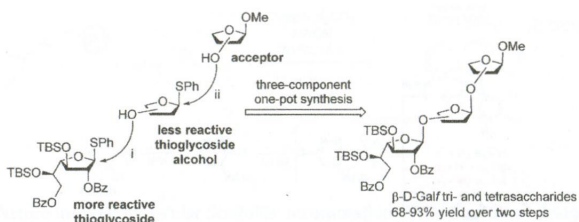


Regioselective Synthesis of 3-Aminoimidazo[1,2-a]pyrimidines under Continuous Flow Conditions

Ashlie J. E. Butler, Mark J. Thompson, Patrick J. Maydom, James A. Newby, Kai Guo, Harry Adams, and Beining Chen*

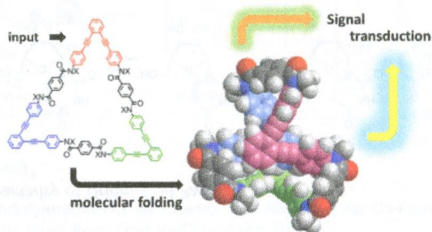


Influence of Silyl Protections on the Anomeric Reactivity of Galactofuranosyl Thioglycosides and Application of the Silylated Thiogalactofuranosides to One-Pot Synthesis of Diverse β -D-Oligogalactofuranosides
Shuai Wang, Xue Meng, Wei Huang, and Jin-Song Yang*



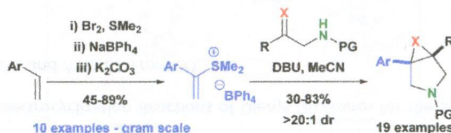
A Foldable Cyclic Oligomer: Chiroptical Modulation through Molecular Folding upon Complexation and a Change in Temperature

Ryo Katoono,* Yuki Tanaka, Kenshu Fujiwara, and Takanori Suzuki*



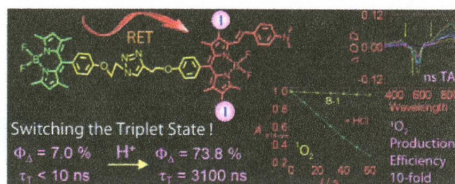
Synthesis of α -Substituted Vinylsulfonium Salts and Their Application as Annulation Reagents in the Formation of Epoxide- and Cyclopropane-Fused Heterocycles

Johnathan V. Matlock, Sven P. Fritz, Stephen A. Harrison, Diane M. Coe, Eoghan M. McGarrigle,* and Varinder K. Aggarwal*



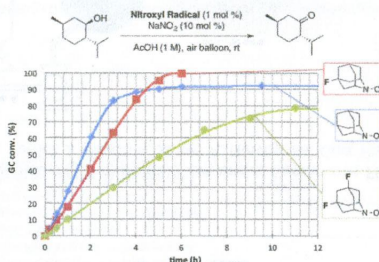
Switching of the Triplet Excited State of Styryl 2,6-Diiodo-Bodipy and Its Application in Acid-Activatable Singlet Oxygen Photosensitizing

Ling Huang, Wenbo Yang, and Jianzhang Zhao*



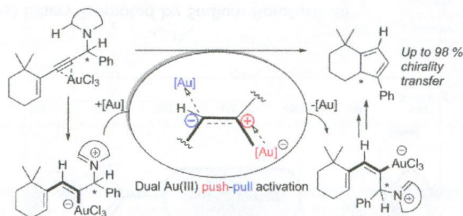
Mechanistic Insight into Aerobic Alcohol Oxidation Using NO_x-Nitroxide Catalysis Based on Catalyst Structure–Activity Relationships

Masatoshi Shibuya, Shota Nagasawa, Yuji Osada, and Yoshiharu Iwabuchi*



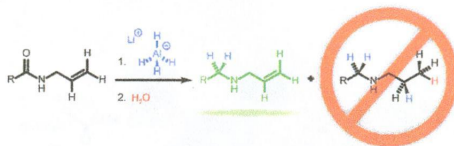
Gold(III)-Catalyzed Enynamine–Cyclopentadiene Cycloisomerization with Chirality Transfer: An Experimental and Theoretical Study Indicating Involvement of Dual Au(III) Push–Pull Assisted *cis*–*trans* Isomerism

Tom Wirtanen, Mikko Muuronen, Michele Melchionna, Michael Patzschke,* and Juho Helajä*



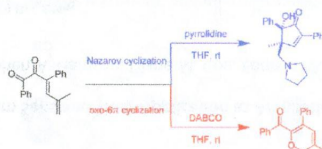
Reduction of *N*-Allylamides by LiAlH_4 : Unexpected Attack of the Double Bond with Mechanistic Studies of Product and Byproduct Formation

Birk Thiedemann, Christin M. L. Schmitz, and Anne Staubitz*



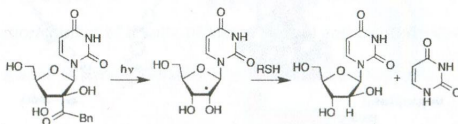
No Acid Required: 4π and 6π Electrocyclization Reactions of Dienyl Diketones for the Synthesis of Cyclopentenones and 2*H*-Pyrans

Steven D. Jacob, Joshua L. Brooks, and Alison J. Frontier*



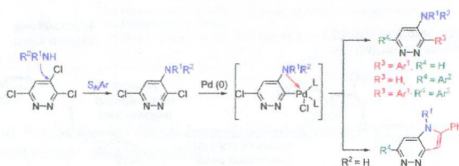
Independent Generation and Reactivity of Uridin-2'-yl Radical

Rakesh Paul and Marc M. Greenberg*



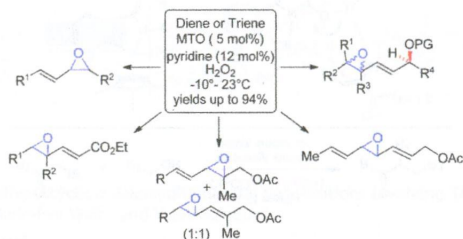
Access to 4-Alkylaminopyridazine Derivatives via Nitrogen-Assisted Regioselective Pd-Catalyzed Reactions

Emilie Blaise, Arthur E. Kümmerle, Hassan Hammoud, João Xavier de Araújo-Júnior, Frédéric Bihel, Jean-Jacques Bourguignon, and Martine Schmitt*



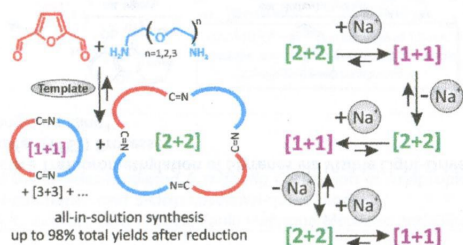
Regio- and Stereoselective Monoepoxidation of Dienes using Methyltrioxorhenium: Synthesis of Allylic Epoxides

Saroj Ranjan De, Ganesh Kumar, Jawahar L. Jat, Saritha Birudaraju, Biao Lu, Rajkumar Manne, Narender Puli, Adeniyi Michael Adebisin, and John R. Falck*



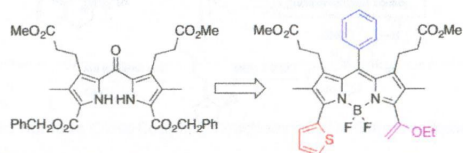
Dynamic Combinatorial Libraries of 2,5-Diformylfuran-Derived Macrocycles

Krzysztof Ziach, Aleksandra Obrocka-Hrycina, and Janusz Jurczak*



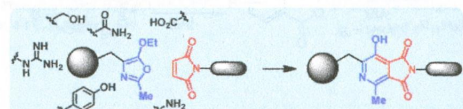
Functionalization of 3,5,8-Trichlorinated BODIPY Dyes

Hajjun Wang, Frank R. Fronczek, M. Graça H. Vicente, and Kevin M. Smith*



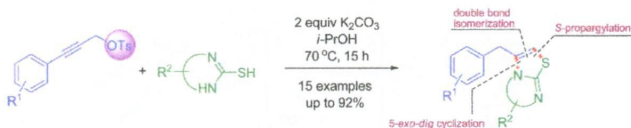
Kondrat'eva Ligation: Diels–Alder-Based Irreversible Reaction for Bioconjugation

Laurie-Anne Jouanno, Arnaud Chevalier, Nawal Sekkat, Nicolas Perzo, H el ene Castel, Anthony Romieu, Norbert Lange, Cyrille Sabot,* and Pierre-Yves Renard*



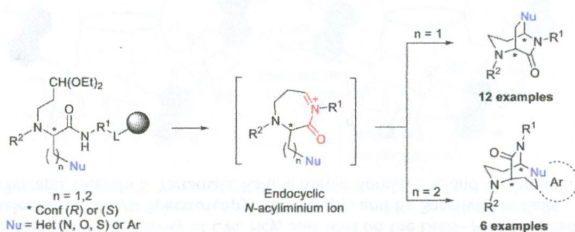
Transition-Metal-Free Synthesis of Imidazo[2,1-*b*]thiazoles and Thiazolo[3,2-*a*]benzimidazoles via an *S*-Propargylation/*S*-*exo*-*dig* Cyclization/Isomerization Sequence Using Propargyl Tosylates as Substrates

Mohamed A. Omar, Wolfgang Frey, Jürgen Conrad, and Uwe Beifuss*



From Amino Acids to Nature-Inspired Molecular Scaffolds: Incorporation of Medium-Sized Bridged Heterocycles into a Peptide Backbone

Agustina La-Venia, Pilar Ventosa-Andrés, Ludmila Hradilová, and Viktor Krchňák*



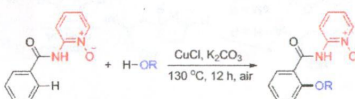
Organocatalytic Arylation of 3-Indolylmethanols via Chemo- and Regiospecific C6-Functionalization of Indoles

Lu-Jia Zhou, Yu-Chen Zhang, Jia-Jia Zhao, Feng Shi,* and Shu-Jiang Tu



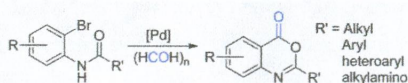
Copper-Mediated Direct Alkoxylation of Arenes Using an *N,O*-Bidentate Directing System

Lin-Bao Zhang, Xin-Qi Hao, Shou-Kun Zhang, Ke Liu, Baozeng Ren, Jun-Fang Gong, Jun-Long Niu,* and Mao-Ping Song*



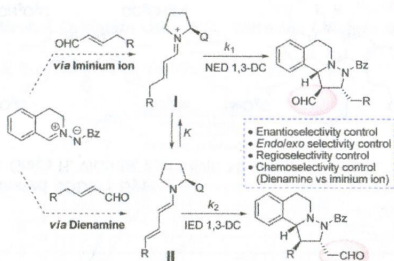
Palladium-Catalyzed Carbonylative Synthesis of Benzoxazinones from *N*-(*o*-Bromoaryl)amides Using Paraformaldehyde as the Carbonyl Source

Wanfeng Li and Xiao-Feng Wu*



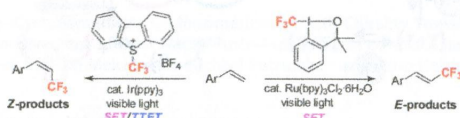
Control of the Dual Reactivity (Iminium-Dienamine) of β -Arylmethyl α,β -Unsaturated Aldehydes in Organocatalytic 1,3-Dipolar Cycloadditions with *N*-Benzoyl *C,N*-Cyclic Azomethine Imines

Cristina Izquierdo, Francisco Esteban, Alejandro Parra, Ricardo Alfaro, José Alemán,* Alberto Fraile,* and José Luis García Ruano



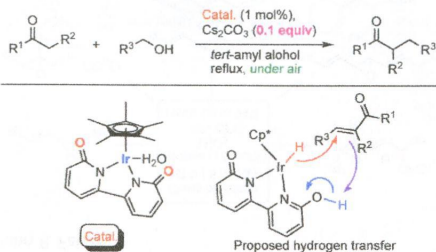
Chemo-, Regio-, and Stereoselective Trifluoromethylation of Styrenes via Visible Light-Driven Single-Electron Transfer (SET) and Triplet-Triplet Energy Transfer (TTET) Processes

Qing-Yu Lin, Xiu-Hua Xu, and Feng-Ling Qing*



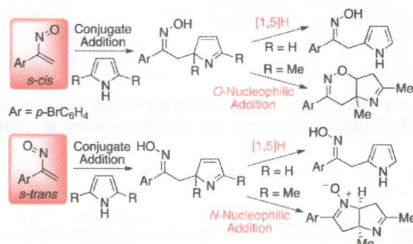
α -Alkylation of Ketones with Primary Alcohols Catalyzed by a Cp*Ir Complex Bearing a Functional Bipyridonate Ligand

Feng Li,* Juan Ma, and Nana Wang



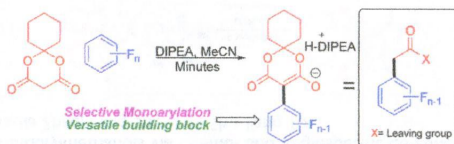
Reactions of Nitrosoalkenes with Dipyrrmethanes and Pyrroles: Insight into the Mechanistic Pathway

Sandra C. C. Nunes, Susana M. M. Lopes, Clara S. B. Gomes, Américo Lemos, Alberto A. C. C. Pais, and Teresa M. V. D. Pinho e Melo*



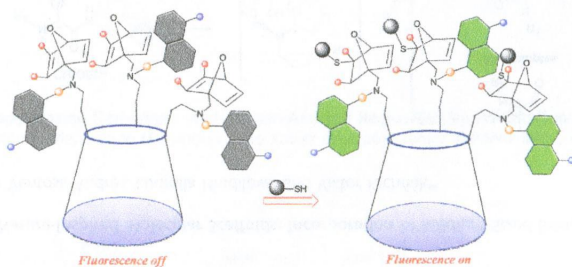
Selective Perfluoro- and Polyfluoroarylation of Meldrum's Acid

Sameera M. Senaweera and Jimmie D. Weaver*



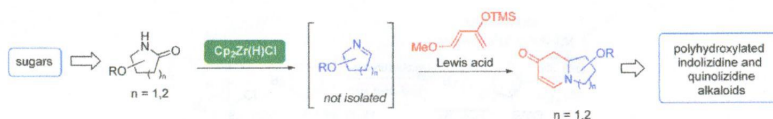
Time- and Concentration-Dependent Reactivity of Cys, Hcy, and GSH on the Diels–Alder-Grafted 1,3,5-Tris Conjugate of Calix[6]arene To Bring Selectivity for Cys: Spectroscopy, Microscopy, and Its Reactivity in Cells

V. V. Sreenivasu Mummidiwarapu, Deepthi S. Yarramala, Karuna Kumar Kondaveeti, and Chebrolu P. Rao*



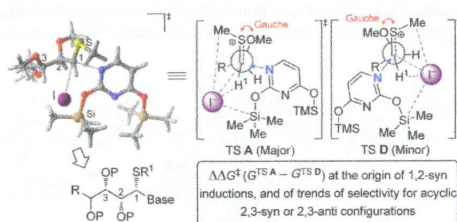
Synthesis of Polyhydroxylated Quinolizidine and Indolizidine Scaffolds from Sugar-Derived Lactams via a One-Pot Reductive/Mannich/Michael Sequence

Piotr Szcześniak, Sebastian Stecko,* Elzbieta Maziarz, Olga Staszewska-Krajewska, and Bartłomiej Furman*



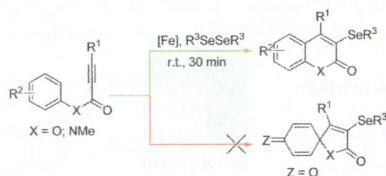
Investigation of Diastereoselective Acyclic α -Alkoxydithioacetal Substitutions Involving Thiocarbenium Intermediates

Michel Prévost,* Starr Dostie, Marie-Ève Waltz, and Yan Guindon*



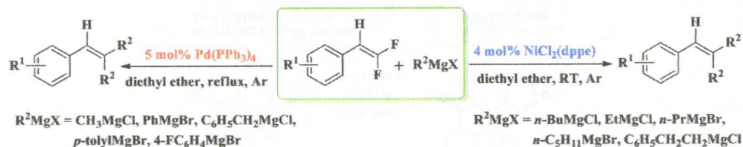
Iron(III) Chloride and Diorganyl Diselenides-Mediated 6-*endo-dig* Cyclization of Arylpropiolates and Arylpropiolamides Leading to 3-Organoselenenyl-2H-coumarins and 3-Organoselenenyl-quinolinones

Anderson C. Mantovani, Tales A. C. Goulart, Davi F. Back, Paulo Henrique Menezes, and Gilson Zeni*



Palladium- and Nickel-Catalyzed Kumada Cross-Coupling Reactions of *gem*-Difluoroalkenes and Monofluoroalkenes with Grignard Reagents

Wenpeng Dai, Juan Xiao, Guanyi Jin, Jingjing Wu,* and Song Cao*



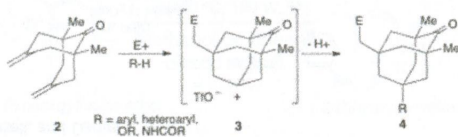
Notes

10547 **S**

DOI: 10.1021/jo501368d

Synthesis of Highly Substituted Adamantanones from Bicyclo[3.3.1]nonanes

Michael E. Jung* and Gloria S. Lee



10553 **S**

DOI: 10.1021/jo5014542

Copper-Mediated Intramolecular Oxidative C–H/C–H Cross-Coupling of α -Oxo Ketene *N,S*-Acetals for Indole Synthesis

Fei Huang, Ping Wu, Liandi Wang, Jiping Chen, Chenglin Sun, and Zhengkun Yu*

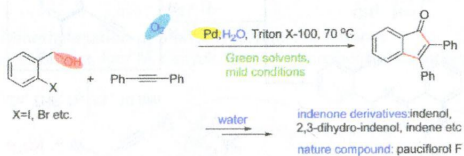


10561 **S**

DOI: 10.1021/jo501444g

Palladium-Catalyzed Annulation of Alkynes with *Ortho*-Halide-Containing Benzyl Alcohols in Aqueous Medium

Jie Feng, Guoping Lu, Meifang Lv, and Chun Cai*

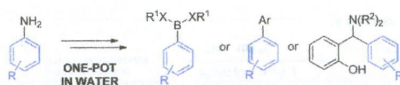


10568 **S**

DOI: 10.1021/jo501665e

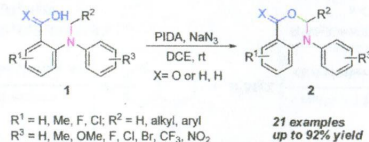
Sequential One-Pot Access to Molecular Diversity through Aniline Aqueous Borylation

William Erb, Mathieu Albini, Jacques Rouden, and Jérôme Blanchet*



Hypervalent Iodine-Mediated Oxygenation of *N,N*-Diaryl Tertiary Amines: Intramolecular Functionalization of sp^3 C–H Bonds Adjacent to Nitrogen

Ningning Zhang, Ran Cheng, Daisy Zhang-Negrerie, Yunfei Du,* and Kang Zhao*



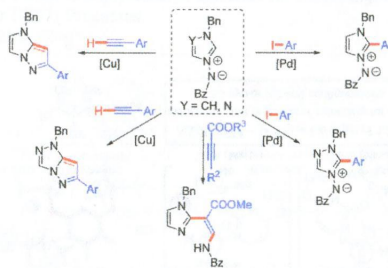
A Visible-Light-Promoted Aerobic Metal-Free C-3 Thiocyanation of Indoles

Weigang Fan, Qi Yang, Fengshan Xu, and Pixu Li*



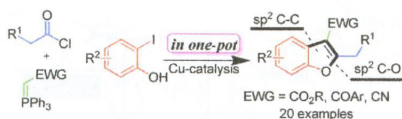
Synthesis and Direct C2 Functionalization of Imidazolium and 1,2,4-Triazolium *N*-Imides

Deepak S. Panmand, Davit Jishkariani, C. Dennis Hall,* Peter J. Steel, Abdullah M. Asiri, and Alan R. Katritzky



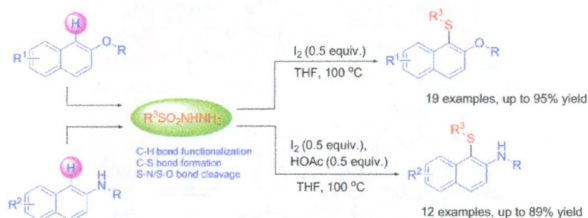
Copper-Catalyzed, C–C Coupling-Based One-Pot Tandem Reactions for the Synthesis of Benzofurans Using *o*-Iodophenols, Acyl Chlorides, and Phosphorus Ylides

Yunyun Liu,* Hang Wang, and Jie-Ping Wan*



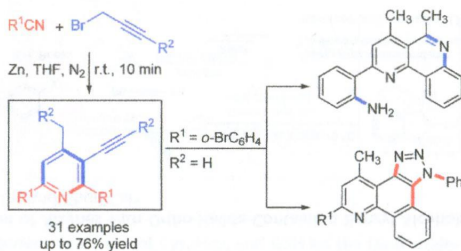
Iodine-Mediated Thiolation of Substituted Naphthols/Naphthylamines and Arylsulfonyl Hydrazides via C(sp²)-H Bond Functionalization

Xing Kang, Rulong Yan,* Guiqin Yu, Xiaobo Pang, Xingxing Liu, Xiaoni Li, Likui Xiang, and Guosheng Huang*



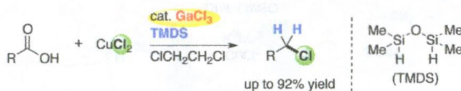
Zinc-Mediated One-Pot Tandem Reaction of Nitriles with Propargyl Bromides: An Access to 3-Alkynylpyridines

Yan He, Shenghai Guo, Xinying Zhang, and Xuesen Fan*



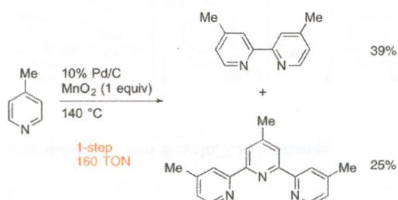
Gallium-Catalyzed Reductive Chlorination of Carboxylic Acids with Copper(II) Chloride

Norio Sakai,* Takumi Nakajima, Shinichiro Yoneda, Takeo Konakahara, and Yohei Ogiwara

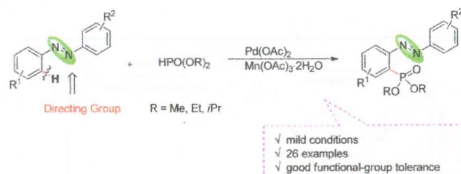


4,4',4''-Trimethyl-2,2':6',2''-terpyridine by Oxidative Coupling of 4-Picoline

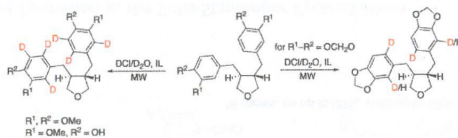
Michael T. Robo, Michael R. Prinsell, and Daniel J. Weix*



Palladium-Catalyzed Direct Regioselective *ortho*-Phosphonation of Aromatic Azo Compounds with Dialkyl Phosphites
Gang Hong, Dan Mao, Shengying Wu, and Limin Wang*

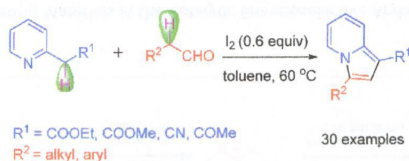


Capricious Selectivity in Electrophilic Deuteration of Methyleneedioxy Substituted Aromatic Compounds
Monika Pohjoispää, Raúl Mera-Adasme, Dage Sundholm,* Sami Heikinen, Tapio Hase, and Kristiina Wähälä*

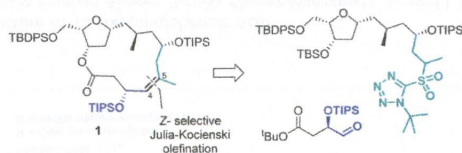


***I*₂-Mediated Oxidative Cyclization for Synthesis of Substituted Indolizines**

Likui Xiang, Yang Yang, Xiaoqiang Zhou, Xingxing Liu, Xiaoni Li, Xing Kang, Rulong Yan,* and Guosheng Huang

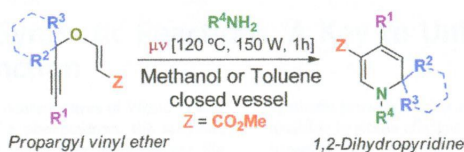


Selective Formation of a *Z*-Trisubstituted Double Bond Using a 1-(*tert*-Butyl)tetrazolyl Sulfone
Adriana Lorente, Fernando Albericio, and Mercedes Álvarez*

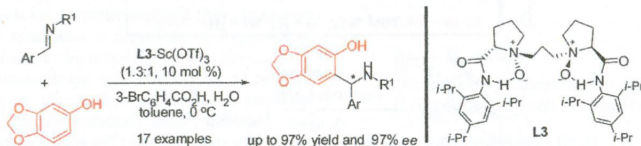


General Synthesis of Substituted 1,2-Dihydropyridines

David Tejedor,* Leandro Cotos, Gabriela Méndez-Abt, and Fernando García-Tellado*

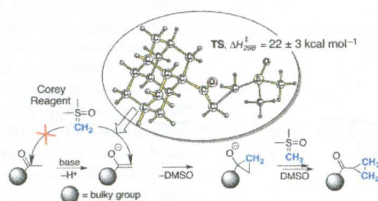
**Topology:** monocyclic/sp³-quaternized/spiro**Diversity:** wide substitution pattern**Substituents:** high combinatorial power*N,N'*-Dioxide–Scandium(III)-Catalyzed Asymmetric Aza-Friedel–Crafts Reaction of Sesamol with Aldimines

Sha Bai, Yuting Liao, Lili Lin, Weiwei Luo, Xiaohua Liu, and Xiaoming Feng*



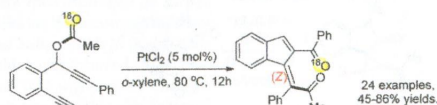
Beyond the Corey Reaction II: Dimethylenation of Sterically Congested Ketones

Anastasiya V. Barabash, Ekaterina D. Butova, Igor M. Kanyuk, Peter R. Schreiner,* and Andrey A. Fokin*



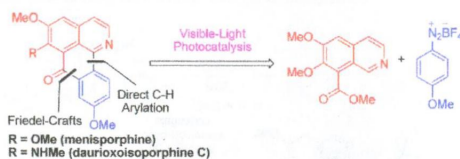
Platinum-Catalyzed Tandem Cycloisomerization Reaction of Benzoendiynyl Esters: Regioselective Long-Range 1,5-Acyl Migration

Zhiyuan Chen,* Xuegong Jia, Jiapan Huang, and Jianjun Yuan



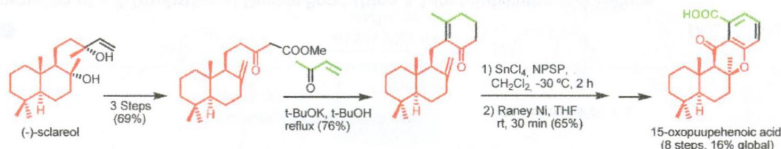
Total Syntheses of Menisporphine and Daurioxoisoporphine C Enabled by Photoredox-Catalyzed Direct C–H Arylation of Isoquinoline with Aryldiazonium Salt

Jing Zhang, Jie Chen, Xiaoyun Zhang, and Xiaoguang Lei*



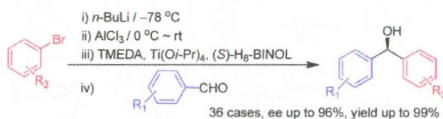
Synthesis of the Putative Structure of 15-Oxopuupehenoic Acid

Ettahir Boulifa, Antonio Fernández, Esteban Alvarez, Ramón Alvarez-Manzaneda, Ahmed I. Mansour, Rachid Chahboun,* and Enrique Alvarez-Manzaneda*



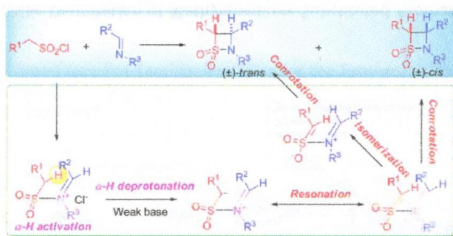
Aryl Bromides as Inexpensive Starting Materials in the Catalytic Enantioselective Arylation of Aryl Aldehydes: The Additive TMEDA Enhances the Enantioselectivity

Yong-Xin Yang, Yue Liu, Lei Zhang, Yan-E Jia, Pei Wang, Fang-Fang Zhuo, Xian-Tao An, and Chao-Shan Da*



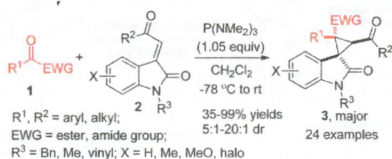
Insights into the β -Sultam Ring Formation in the Sulfa-Staudinger Cycloadditions

Zhanhui Yang and Jiayi Xu*

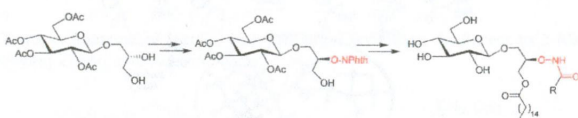


Diastereoselective Synthesis of Functionalized Spirocyclopropyl Oxindoles via $P(NMe_2)_3$ -Mediated Reductive Cyclopropanation

Rong Zhou,* Changjiang Yang, Yiyi Liu, Ruifeng Li, and Zhengjie He*

Synthesis of *N*-Oxamide-Linked Neoglycolipids

Na Chen and Juan Xie*

Asymmetric Intramolecular Carbolithiation of Achiral Substrates: Synthesis of Enantioenriched (*R*)-(+)-Cuparene and (*R*)-(+)-Herbertene

Matthew R. Luderer, Michael J. Mealy, and William F. Bailey*

