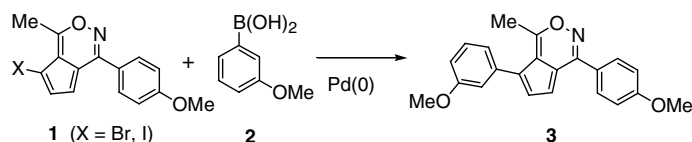


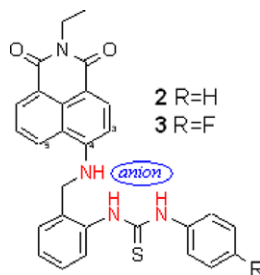
Contents

COMMUNICATIONS

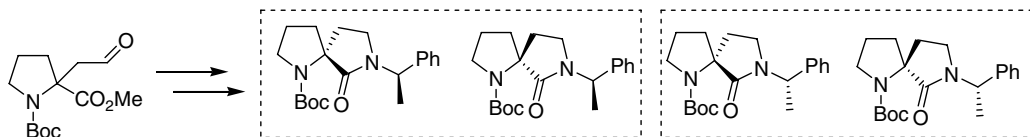
- Suzuki reaction of cyclopenta[*d*][1,2]oxazine in aqueous solvent with water-soluble phosphine ligand** pp 5237–5240
Sung Yun Cho,* Seung Kyu Kang, Jin Hee Ahn, Jae Du Ha and Joong-Kwon Choi



- Fluorescent anion sensors based on 4-amino-1,8-naphthalimide that employ the 4-amino N–H** pp 5241–5245
Frederick M. Pfeffer,* Marianne Seter, Naomi Lewcenko and Neil W. Barnett



- Spirobicyclic diamines. Part 2: Synthesis of homochiral diastereoisomeric proline derived [4.4]-spirolactams** pp 5247–5250
Fintan Kelleher* and Sinead Kelly

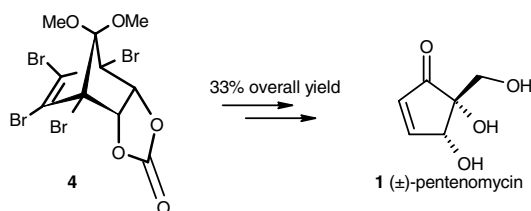


Reductive amination of homochiral primary amines ((*R*)- or (*S*)- α -methylbenzylamine, and (*R*)- or (*S*)-alanine methyl ester) with a racemic proline derived aldehyde, followed by cyclisation, gave diastereoisomeric [4.4]-spirolactams.

Total synthesis of (±)-pentenomycin

Faiz Ahmed Khan* and Bhimsen Rout

pp 5251–5253

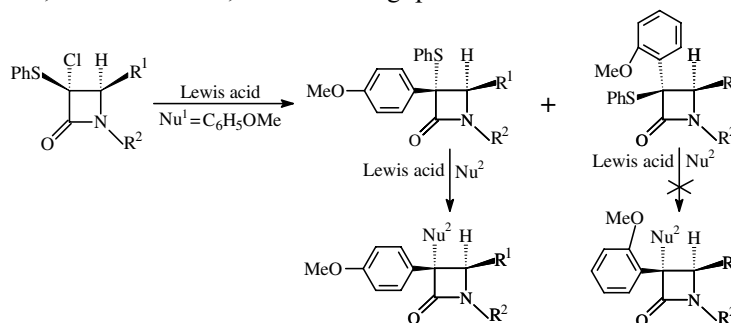


A concise stereoselective route to (±)-pentenomycin **1** in 33% overall yield starting from the readily accessible Diels–Alder adduct **4** is reported. The key reaction involves decarbonylation of a β-methoxy-α,β-unsaturated aldehyde.

Lewis acid mediated functionalization of β-lactams: mechanistic study and synthesis of C-3 unsymmetrically disubstituted azetidin-2-ones

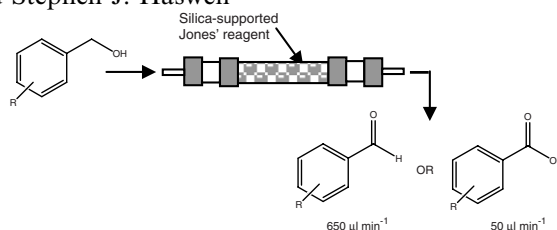
Aman Bhalla, Suman Rathee, Sachin Madan, Paloth Venugopalan and Shamsher S. Bari*

pp 5255–5259

**Clean and selective oxidation of aromatic alcohols using silica-supported Jones' reagent in a pressure-driven flow reactor**

Charlotte Wiles, Paul Watts* and Stephen J. Haswell

pp 5261–5264

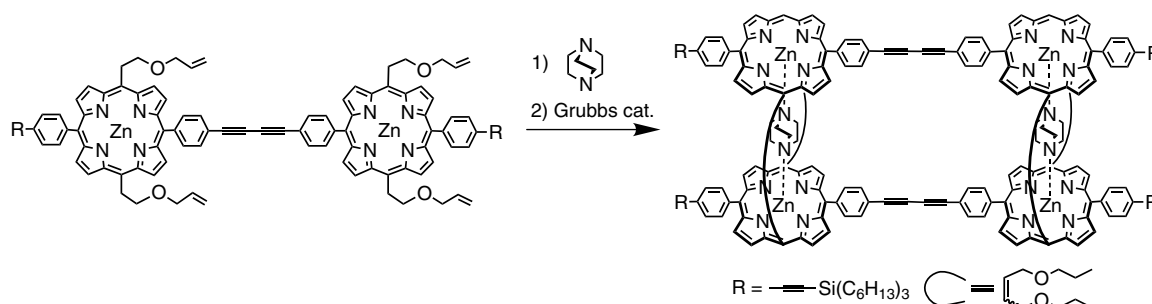


Increased demand for efficient and cost effective synthetic techniques remains the driving force behind the development of alternative methodologies. With this in mind, we describe the use of continuous flow reactors for the selective oxidation of primary alcohols to aldehydes or carboxylic acids depending on the flow rates, and hence residence times, employed.

**Synthesis of covalently bonded nanostructure from two porphyrin molecular wires leading to a molecular tube**

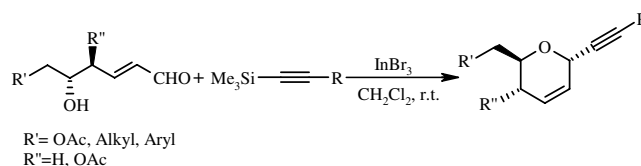
Tamao Ishida, Yasuhiro Morisaki and Yoshiki Chujo*

pp 5265–5268



Highly stereoselective synthesis of C-(alkynyl)-pseudoglycals from δ -hydroxy- α,β -unsaturated aldehydes pp 5269–5272

J. S. Yadav,* A. Krishnam Raju and V. Sunitha

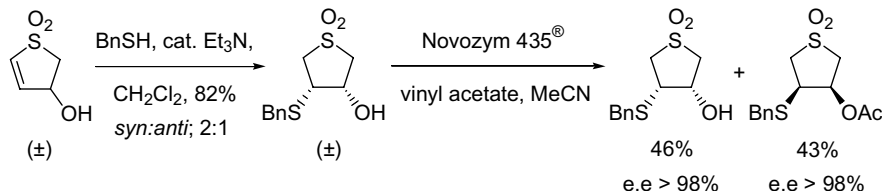


An efficient methodology for the synthesis of C-(alkynyl)-pseudoglycals from δ -hydroxy- α,β -unsaturated aldehydes and alkynyl silyl acetylenes has been developed.

Enzymatic kinetic resolution of 1,1-dioxo-2,3-dihydro-1H-1 λ ⁶-thiophen-3-ol via temporary derivatisation

pp 5273–5276

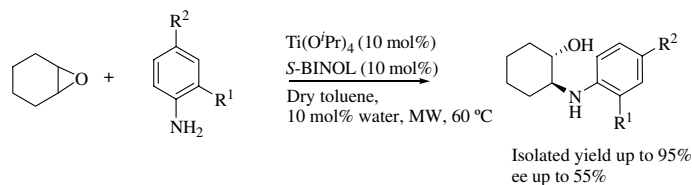
Ben S. Morgan, Stanley M. Roberts and Paul Evans*



Microwave-assisted asymmetric ring opening of meso-epoxides with aromatic amines catalyzed by a Ti-S(-)-BINOL complex

pp 5277–5279

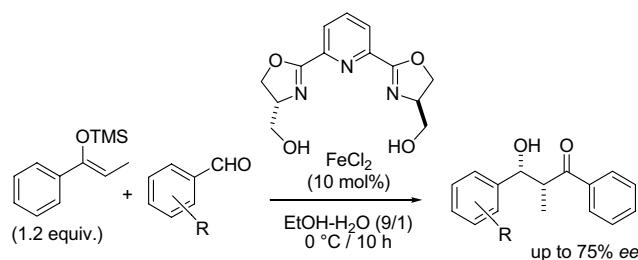
Rukhsana I. Kureshy,* Surendra Singh, Noor-ul H. Khan, Sayed H. R. Abdi, Santosh Agrawal, Vishal J. Mayani and Raksh V. Jasra



A chiral iron(II)-pybox catalyst stable in aqueous media. Asymmetric Mukaiyama–aldol reaction

pp 5281–5284

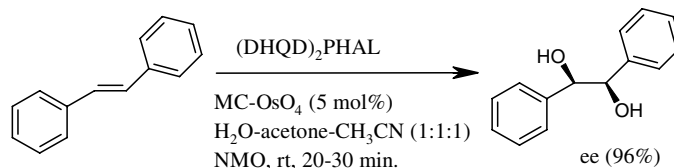
Joanna Jankowska, Joanna Paradowska and Jacek Mlynarski*



Catalytic asymmetric dihydroxylation of olefins using polysulfone-based novel microencapsulated osmium tetroxide

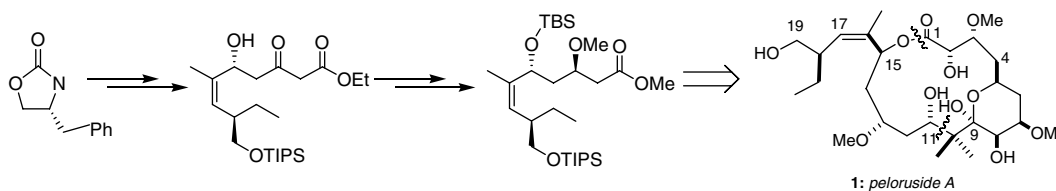
pp 5285–5288

S. Malla Reddy, M. Srinivasulu, Y. Venkat Reddy, M. Narasimhulu and Y. Venkateswarlu*


A stereoselective synthesis of the C11–C19 fragment of (+)-peloruside A

pp 5289–5292

Zhen-liang Chen and Wei-shan Zhou*

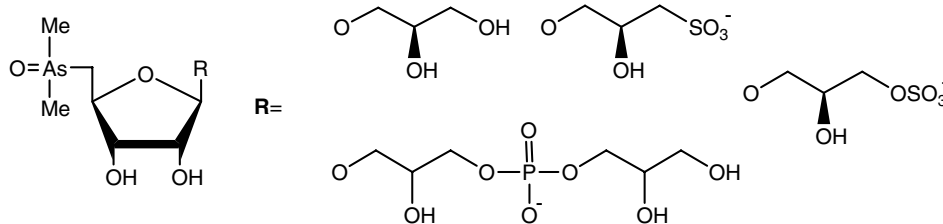


A new route to the synthesis of the C11–C19 fragment of peloruside A is described.

Synthetic routes for naturally-occurring arsenic-containing ribosides

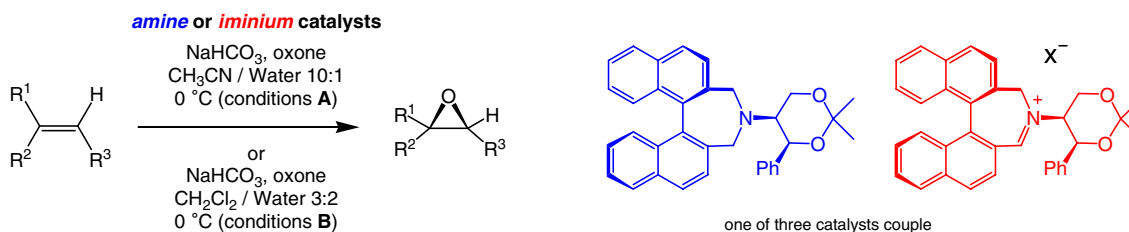
pp 5293–5296

Pedro Traar and Kevin A. Francesconi*


Enantioselective olefin epoxidation using homologous amine and iminium catalysts—a direct comparison

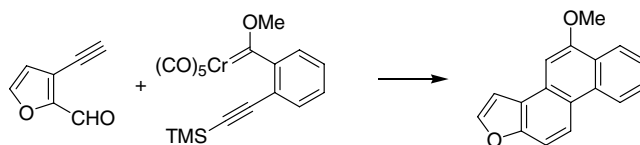
pp 5297–5301

Maria-Hélène Gonçalves, Alexandre Martinez, Stéphane Grass, Philip C. Bulman Page and Jérôme Lacour*



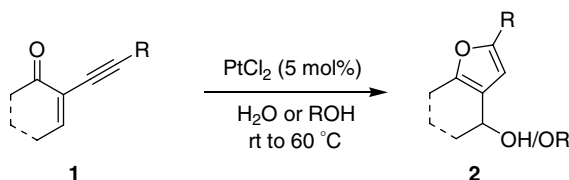
Synthesis of polynuclear aromatic compounds through net [5+5]-cycloaddition of 2-alkynylarylcarbene complexes and enyne–aldehyde derivatives pp 5303–5306

Yanshi Zhang and James W. Herndon*



Nucleophile-assisted Pt-catalyzed cyclization of enynes: an access to synthesis of highly substituted furans pp 5307–5310

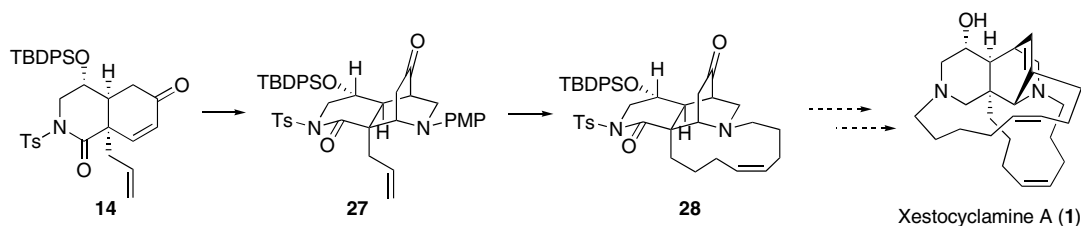
Chang Ho Oh,* V. Raghava Reddy, Ahyun Kim and Chul Yun Rhim



A new and efficient Pt-catalyzed hydroxy- or alkoxy cyclization of 2-(1-alkynyl)-2-alkene-1-ones offers a general synthetic pathway to a wide range of highly substituted furans in good to excellent yields.

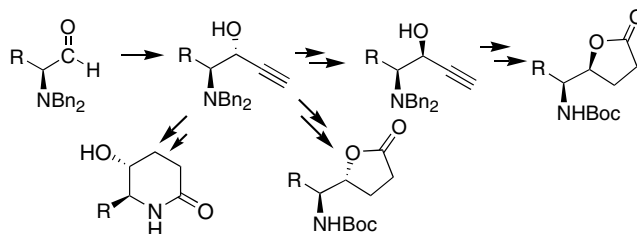
Toward the synthesis of xestocyclamine A: investigation of double Michael reaction and direct aza Diels–Alder reaction pp 5311–5315

Heedong Yun, Alexandre Gagnon and Samuel J. Danishefsky*



Diastereoselective syntheses of 2-amino propargyl alcohols. Chiral building blocks for enantiopure amino γ -lactones and 5-hydroxy-piperidinone derivatives pp 5317–5320

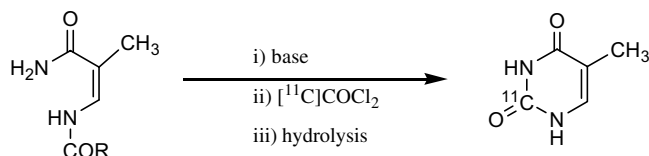
José María Andrés, Rafael Pedrosa* and Alfonso Pérez-Encabo



A new convenient method for the synthesis of [2-¹¹C]thymine utilizing [¹¹C]phosgene

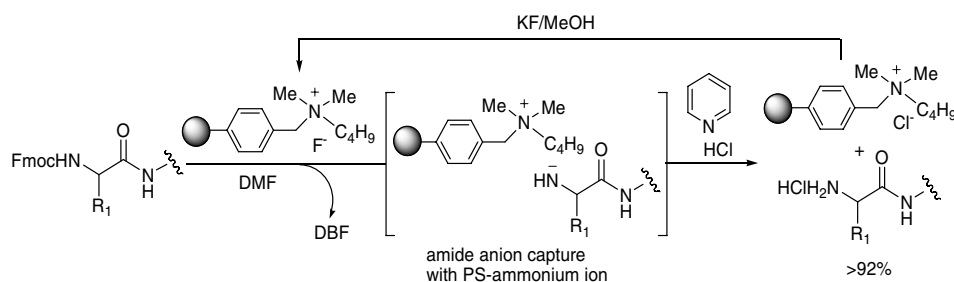
pp 5321–5323

Kazue Ohkura,* Ken-ichi Nishijima, Kimihito Sanoki, Yuji Kuge, Nagara Tamaki and Koh-ichi Seki*


A novel strategy for oligopeptide synthesis using a polymer-supported ammonium fluoride

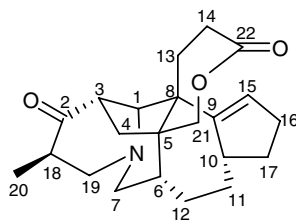
pp 5325–5328

Michio Kurosu* and Dean C. Crick


Calycilactone A, a novel hexacyclic alkaloid from *Daphniphyllum calycillum*

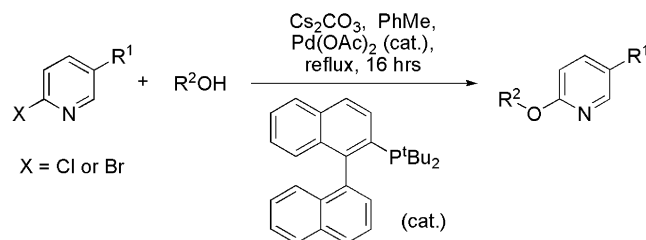
pp 5329–5331

Ying-Tong Di, Hong-Ping He, Hai-Yang Liu, Zhi-Zhi Du, Jun-Mian Tian, Xian-Wen Yang, Yue-Hu Wang and Xiao-Jiang Hao*


Intermolecular palladium-catalyzed coupling of 2-halopyridines and alcohols for the preparation of pyridine ether PPAR agonists

pp 5333–5336

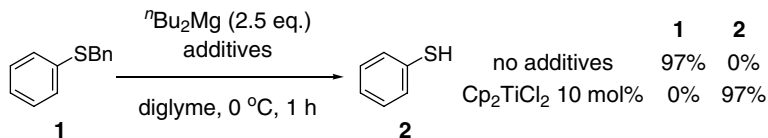
Paul S. Humphries,* Simon Bailey,* Quyen-Quyen T. Do, Jack H. Kellum, Guy A. McClellan and David M. Wilhite



A mild and practical deprotection method for benzyl thioethers

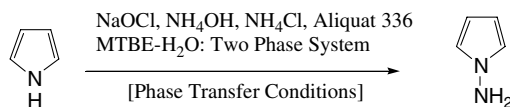
pp 5337–5340

Atsushi Akao,* Nobuaki Nonoyama and Nobuyoshi Yasuda

**An efficient electrophilic N-amination utilizing in situ generated chloramine under phase transfer conditions**

pp 5341–5343

Apurba Bhattacharya,* Nitin C. Patel, Robert Erik Plata, Michael Peddicord, Qingmei Ye, Luca Parlanti, Venkatapuram A. Palaniswamy and John A. Grosso

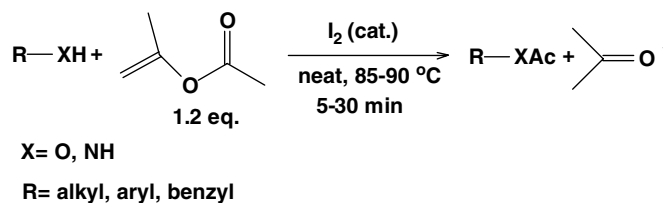


An efficient, one-pot, phase transfer N-amination technology was developed. The protocol utilizes chloramine, an inexpensive and safe electrophilic aminating agent potentially viable for commercial manufacturing.

Molecular iodine in isopropenyl acetate (IPA): a highly efficient catalyst for the acetylation of alcohols, amines and phenols under solvent free conditions

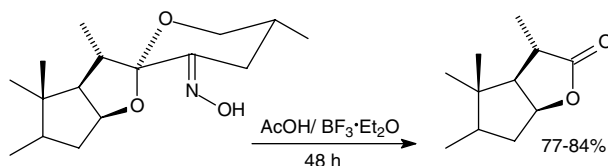
pp 5345–5349

Naseem Ahmed and Johan E. van Lier*

**BF₃·Et₂O-induced Beckmann rearrangement of 23-hydroxyiminosapogenins. A shortcut to bisnorcholanic lactones**

pp 5351–5353

Martín A. Iglesias-Arteaga* and Angel A. Alvarado-Nuño

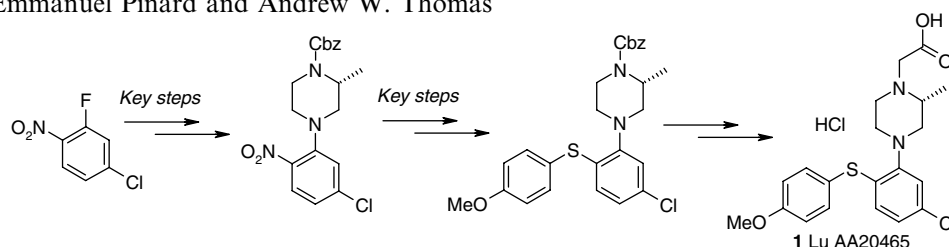


Treatment of different 23-hydroxyiminosapogenins with BF₃·Et₂O in acetic acid produced good yields of the corresponding bisnorcholanic lactones as the sole products.

An improved synthesis of Lu AA20465

pp 5355–5357

Eva A. Krafft, Emmanuel Pinard and Andrew W. Thomas*

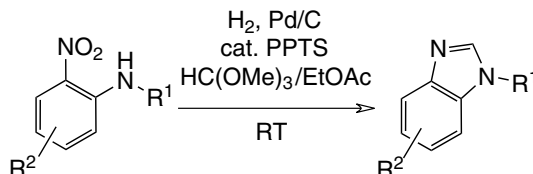


An improved synthesis of Lu AA20465 is reported where the key steps include a regioselective amination reaction, a chemoselective reduction of an aryl nitro group, a diazotization and iodination sequence under nonaqueous conditions and a copper catalyzed thioarylation reaction.

A mild, one-pot synthesis of disubstituted benzimidazoles from 2-nitroanilines

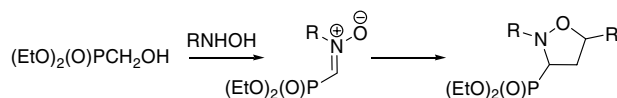
pp 5359–5361

Keith R. Hornberger,* George M. Adjabeng, Hamilton D. Dickson and Ronda G. Davis-Ward

**N-Substituted C-diethoxyphosphorylated nitrones as useful synthons for the synthesis of α -aminophosphonates**

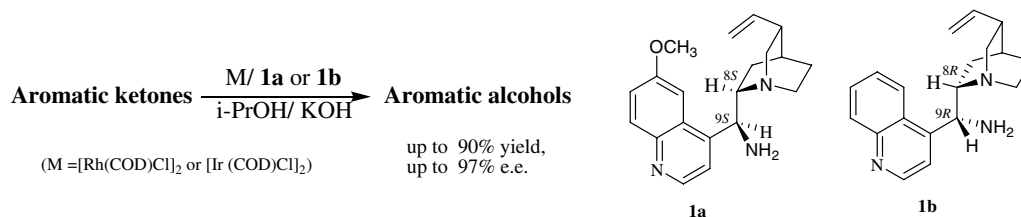
pp 5363–5366

Dorota G. Piotrowska

**Novel recoverable catalysts for asymmetric transfer hydrogenation**

pp 5367–5370

Wei He, Bang-Le Zhang, Ru Jiang, Peng Liu, Xiao-Li Sun and Sheng-Yong Zhang*

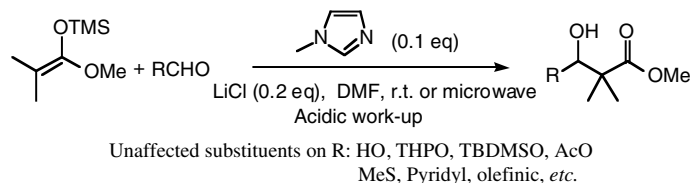


9-Amino(9-deoxy)epiquinine and 9-amino(9-deoxy)epicinchonine were successfully applied in asymmetric transfer hydrogenation in both iridium and rhodium catalytic systems. Moreover, the Ir complex and Rh complex of 9-amino(9-deoxy)epicinchonine were recovered in high yields with dilute hydrochloric acid.

Practical aldol reaction of trimethylsilyl enolate with aldehyde catalyzed by *N*-methylimidazole as a Lewis base catalyst

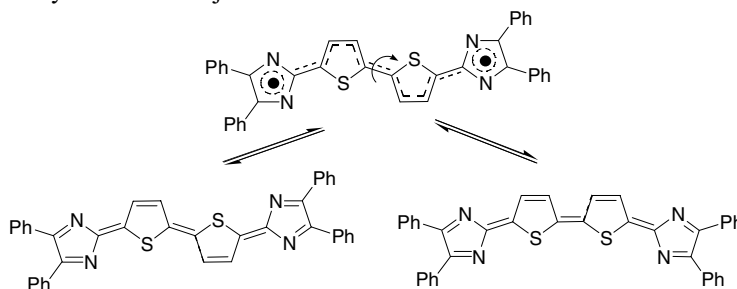
pp 5371–5373

Hisahiro Hagiwara,* Hideyuki Inoguchi, Masakazu Fukushima, Takashi Hoshi and Toshio Suzuki

**Detection of a diradical intermediate in the *cis*–*trans* isomerization of 5,5′-bis(4,5-diphenyl-2*H*-imidazol-2-ylidene)-5,5′-dihydro- $\Delta^{2,2′}$ -bithiophene**

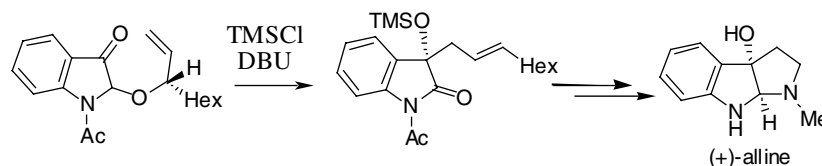
pp 5375–5378

Masatoshi Kozaki, Asuka Isoyama and Keiji Okada*

**Silyl-enolization-asymmetric Claisen rearrangement of 2-allyloxyindolin-3-one: enantioselective total synthesis of 3a-hydroxypyrrolo[2,3-*b*]indoline alkaloid alline**

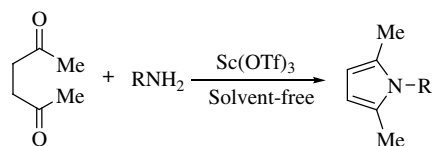
pp 5379–5382

Tomomi Kawasaki,* Wataru Takamiya, Naoki Okamoto, Miyuki Nagaoka and Tetsuya Hirayama

**An approach to the Paal–Knorr pyrroles synthesis catalyzed by Sc(OTf)₃ under solvent-free conditions**

pp 5383–5387

Jiuxi Chen, Huayue Wu, Zhiguo Zheng, Can Jin, Xingxian Zhang and Weike Su*

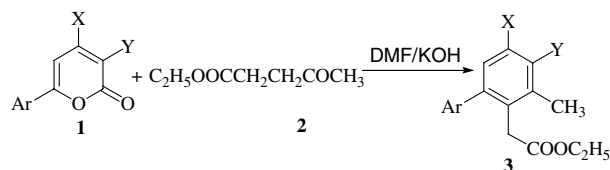


A facile synthesis of *N*-substituted pyrroles by the Paal–Knorr condensation has been accomplished using a simple procedure. Among different metal triflates screened, 1 mol % Sc(OTf)₃ efficiently promoted the reaction in excellent yield (89–98%) under mild reaction conditions. Additionally, Sc(OTf)₃ could be recovered easily after the reactions were completed and reused without evident loss of activity.

A regioselective synthesis of aryl substituted arylacetates through ring transformation by ethyl levulinate

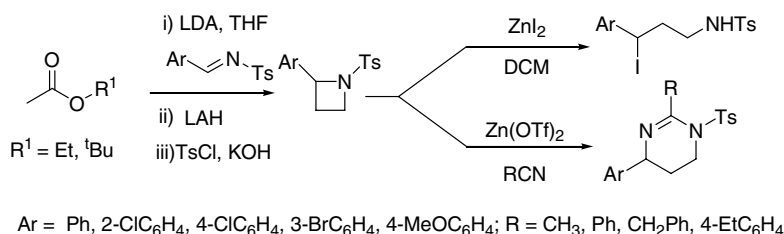
pp 5389–5391

Ramendra Pratap and Vishnu Ji Ram*


A convenient synthetic route to 2-aryl-N-tosylazetidines and their ZnX_2 ($\text{X} = \text{I}, \text{OTf}$) mediated regioselective nucleophilic ring opening reactions: synthesis of γ -iodoamines and tetrahydropyrimidines

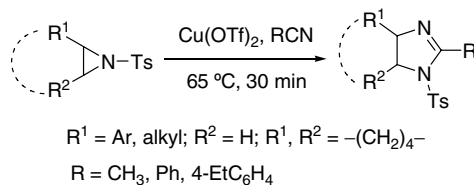
pp 5393–5397

Manas K. Ghorai,* Kalpataru Das, Amit Kumar and Animesh Das


Copper(II) triflate promoted cycloaddition of α -alkyl or aryl substituted N-tosylaziridines with nitriles: a highly efficient synthesis of substituted imidazolines

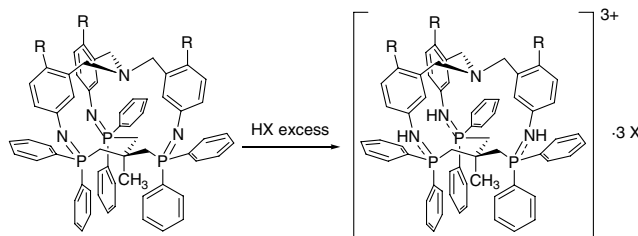
pp 5399–5403

Manas K. Ghorai,* Koena Ghosh and Kalpataru Das


On the protonation of a macrobicyclic cage: an inert tribenzylamine fragment and three robust aminophosphonium units

pp 5405–5408

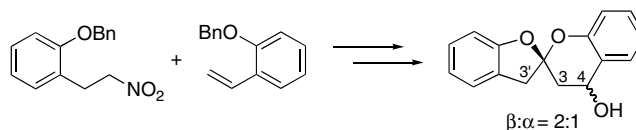
Mateo Alajarín,* Carmen López-Leonardo, José Berná and Jonathan W. Steed*



Convergent route to the purpuromycin bisphenolic spiroketal: hydrogen bonding control of spiroketalization stereochemistry

pp 5409–5413

Stephen P. Waters, Michael W. Fennie and Marisa C. Kozlowski*

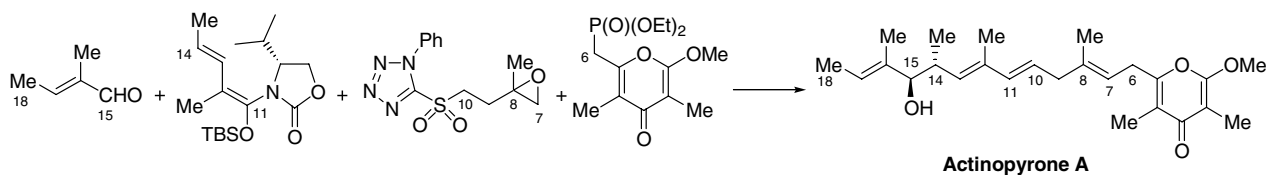


A mild and efficient [3+2] nitrile oxide/olefin cycloaddition provided a rapid and convergent entry into precursors of bisphenolic spiroketals, a structural type unique to the rubromycin family of natural products. In addition, implementation of the premise that a hydrogen bond from the C4-OH controls the stereochemistry of the purpuromycin core resulted in moderate diastereocontrol in the spiroketalization. Spectroscopic and X-ray data of these systems have provided the first assignment of the relative configuration of purpuromycin.

The first total synthesis and structural determination of actinopyrone A

pp 5415–5418

Seijiro Hosokawa,* Kazuya Yokota, Keisuke Imamura, Yasuaki Suzuki, Masataka Kawarasaki and Kuniaki Tatsuta*



Actinopyrone A

OTHER CONTENTS**Corrigendum**

p 5419

*Corresponding author

i+ Supplementary data available via ScienceDirect



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