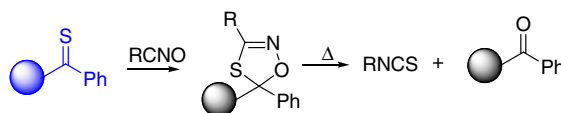


Contents

COMMUNICATIONS

Polymer-supported thiobenzophenone: a self-indicating traceless ‘catch and release’ linker for the synthesis of isothiocyanates pp 5355–5358

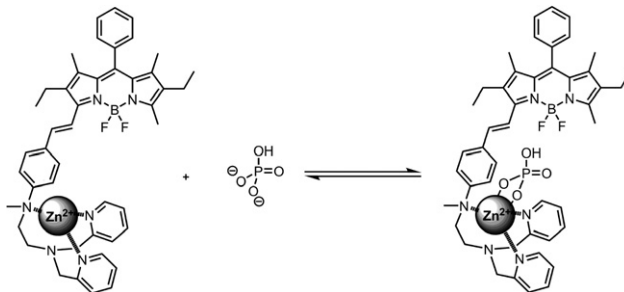
Brendan A. Burkett,* Jacqueline M. Kane-Barber, Robert J. O’Reilly and Lei Shi



The application of polymer-supported thiobenzophenone as a self-indicating linker for the synthesis of isothiocyanates is described.

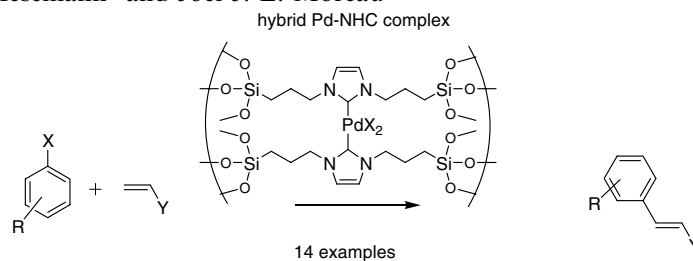
A sensitive fluorescent chemosensor for anions based on a styryl–boradiazaindacene framework pp 5359–5361

Ali Coskun, Erhan Deniz and Engin U. Akkaya*



Silica hybrid material containing Pd–NHC complex as heterogeneous catalyst for Mizoroki–Heck reactions pp 5363–5366

Vivek Polshettiwar, Peter Hessemann* and Joël J. E. Moreau*



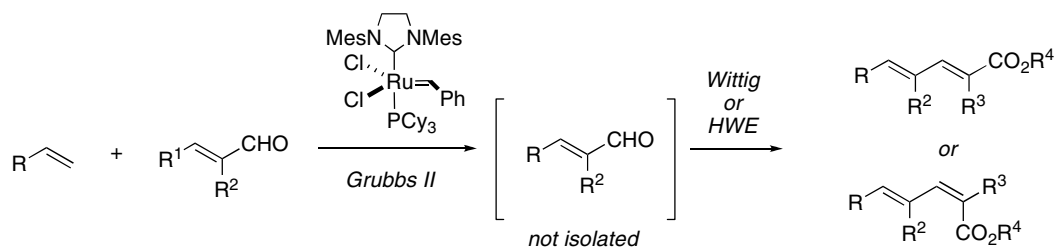
A new silica hybrid material bearing Pd–NHC species, which shows high catalytic activity and excellent recyclability in Mizoroki–Heck reactions.



Sequential cross-metathesis/phosphorus-based olefination: stereoselective synthesis of 2,4-dienoates

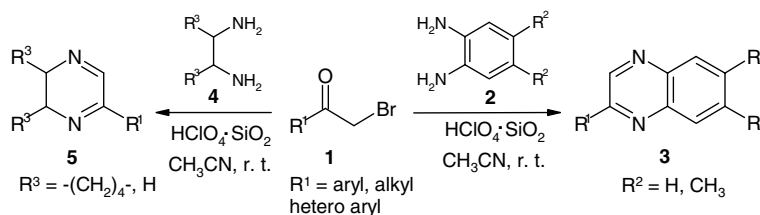
pp 5367–5370

Tapas Paul and Rodrigo B. Andrade*

R = alkyl, aryl; R¹ = H or Me; R² = H or Me; R³ = H or Me; R⁴ Me or Et**An efficient and convenient protocol for the synthesis of quinoxalines and dihydropyrazines via cyclization–oxidation processes using HClO₄·SiO₂ as a heterogeneous recyclable catalyst**

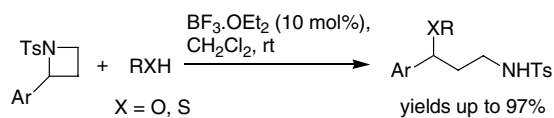
pp 5371–5374

Biswanath Das,* Katta Venkateswarlu, Kanaparthi Suneel and Anjoy Majhi

**Lewis acid catalyzed regioselective ring opening of azetidines with alcohols and thiols**

pp 5375–5377

Sandeep K. Dwivedi, Shikha Gandhi, Namrata Rastogi and Vinod K. Singh*

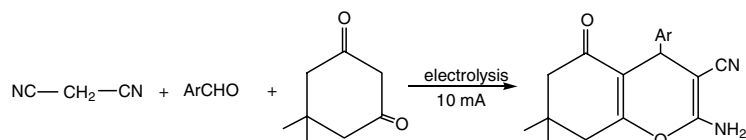


An efficient synthesis of amino ethers and amino thioethers were achieved via the ring cleavage of *N*-tosylazetidines with alcohols or thiols. The reactions were studied in the presence of various Lewis acids and $\text{BF}_3 \cdot \text{OEt}_2$ was found to be the most efficient. The products were obtained in modest to good yields under very mild conditions in 5–15 min.

Electrogenerated base-promoted synthesis of tetrahydrobenzo[*b*]pyran derivatives

pp 5379–5381

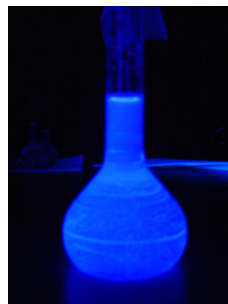
Lida Fotouhi,* Majid M. Heravi,* Azadeh Fatehi and Khadijeh Bakhtiari



Synthesis, optical, and thermal properties of conjugated, bispyridyl and tetrapyridyl compounds by Knoevenagel reaction

pp 5383–5387

Pradip K. Bhowmik,* Alexi K. Nedeltchev and Haesook Han



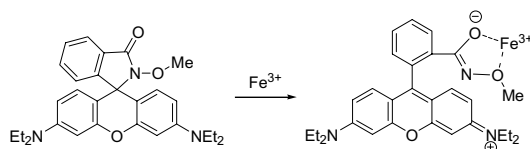
A bispyridyl compound in dimethyl sulfoxide is emitting blue light when excited with UV light.



Rhodamine-hydroxamate-based fluorescent chemosensor for Fe^{III}

pp 5389–5392

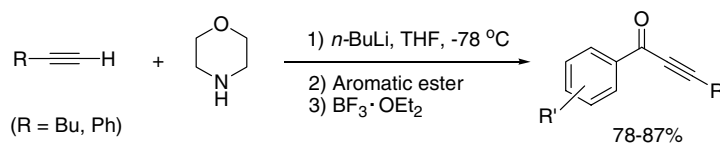
Shinhyo Bae and Jinsung Tae*



A new and efficient one-pot synthesis of aromatic alkynyl ketones from aromatic esters

pp 5393–5395

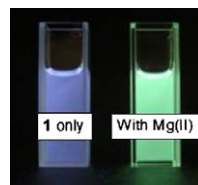
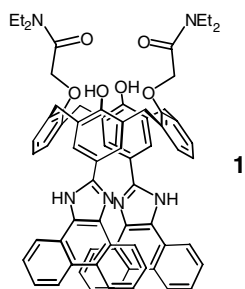
Sang Jun Yim, Chan Ho Kwon and Duk Keun An*



Ratiometric chemosensing of Mg²⁺ ions by a calix[4]arene diamide derivative

pp 5397–5400

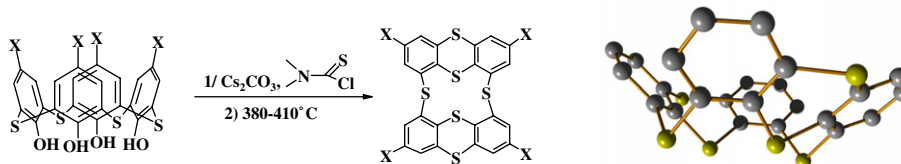
Ki Cheol Song, Myung Gil Choi, De Hun Ryu, Kyoung Nam Kim and Suk-Kyu Chang*



The first approach to a new family of macrocycles: synthesis and characterization of thiacalix[2]thianthrenes

pp 5401–5405

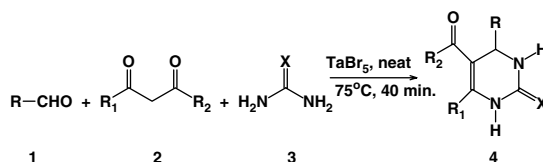
Roman Zieba, Cedric Desroches,* Frederic Chaput, Catherine Sigala, Erwan Jeanneau and Stephane Parola*


 New thianthrene based macrocycles with basket shaped structures were prepared by thermal treatment of tetrakis-(*N,N'*-dimethylthiocarbamoyl)-tetra-*tert*-butyl-thiacalix[4]arene.

TaBr₅-catalyzed Biginelli reaction: one-pot synthesis of 3,4-dihydropyrimidin-2-(1*H*)-ones/thiones under solvent-free conditions

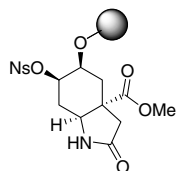
pp 5407–5409

Naseem Ahmed and Johan E. van Lier*


Synthesis of an octahydroindolinone scaffold for a diversity-based chemical compound library

pp 5411–5413

Gregg F. Keaney* and Charles W. Johannes

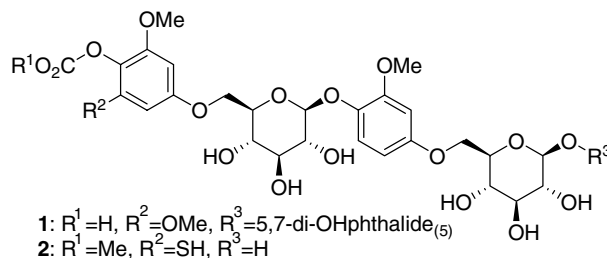


The synthesis of a chemical compound library using diversity-oriented synthesis (DOS) is discussed. The library is structurally inspired by the Amaryllidaceae alkaloids, a family of natural products which has been known to demonstrate potent antiviral and antineoplastic activity. Highlights of this work include the rapid, high-yielding construction of the octahydroindolinone core and the solid-phase diversification of the lactam using a neutral phosphazene base.

Two novel carbonic acid esters conjugated with oligophenyl glucosides from *Rhamnus nakaharai*

pp 5415–5419

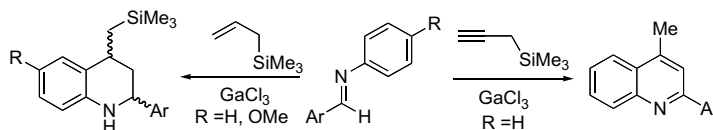
Tzy-Ming Lu



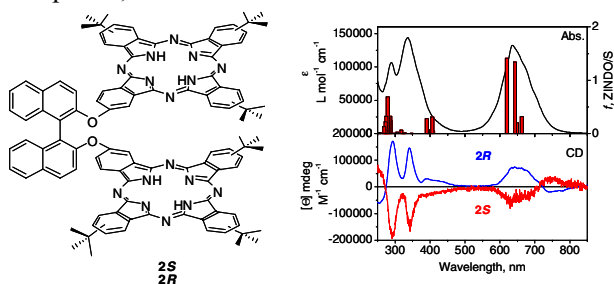
Rhamnakoiside A (1) and B (2) are two novel carbonic acid esters that could be phase II conjugation products of quinones in the form of oligophenyl glucosides.



GaCl₃-catalyzed [4+2] annulations of allyltrimethylsilane and trimethyl(propargyl)silane with aldimines pp 5421–5424
 Tsunehisa Hirashita,* Daisuke Kawai and Shuki Araki



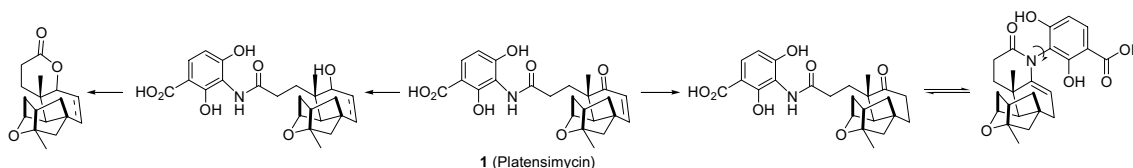
Preparation and characterization of first optically active rigid phthalocyanine dimers pp 5425–5428
 Victor N. Nemykin,* Alexey Y. Koposov, Roman I. Subbotin and Shaili Sharma



The first optically active rigid covalently linked by enantiomerically pure (*R*)- or (*S*)-BINOL metal-free phthalocyanine dimers have been prepared and characterized by spectroscopic and theoretical methods.

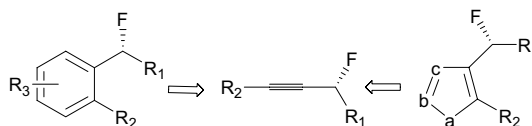


Chemistry of platensimycin pp 5429–5433
 Sheo B. Singh,* Kithsiri B. Herath, Jun Wang, Nancy Tsou and Richard G. Ball



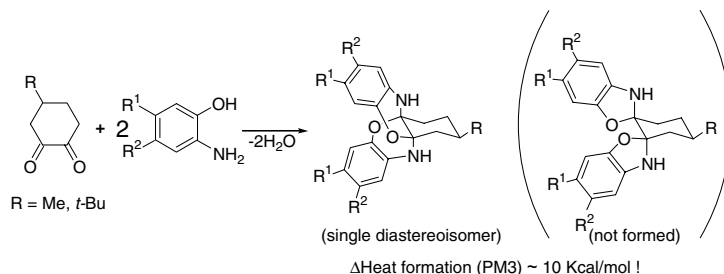
Selective methylation of the phenolic groups, halogenation, reduction, epoxidation reactions and details of the conversion of dihydroplatensimycin to the cyclic enamino-amido forms have been described.

A new strategy for the synthesis of optically active benzylic fluorides and corresponding five-membered heteroaromatic analogues pp 5435–5438
 Danielle Grée* and René Grée



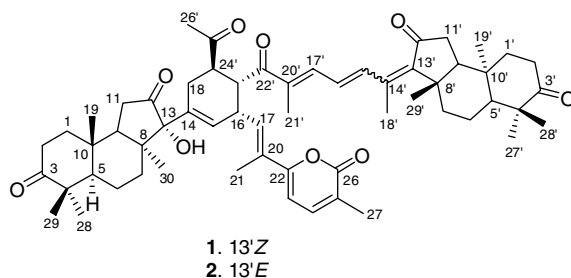
Regio- and diastereoselective synthesis of (3,4,8,9)-dibenzo-2,7-dioxa-5,10-diaza[4.4.4] propellanes from 4-substituted 1,2-cyclohexanediones and *o*-aminophenols, a computational approach to regioselectivity prediction pp 5439–5442

Joanna Nowicka-Scheibe,* Jacek G. Sośnicki* and Wanda Sawka-Dobrowolska



Jaspolides G and H, unique bisomalabaricanes from the Chinese marine sponge *Jaspis* sp. pp 5443–5447

Shengan Tang, Zhiwei Deng, Peter Proksch and Wenhan Lin*



Two unique bisomalabaricanes jaspolides, G (1) and H (2), were isolated from the marine sponge *Jaspis* sp. Their structures were elucidated on the basis of extensive spectroscopic data (IR, 1D and 2D NMR, MS) analyses.

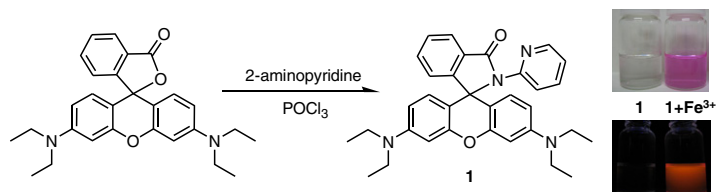
Pd-catalyzed aerobic oxidative coupling of anilides with olefins through regioselective C–H bond activation pp 5449–5453

Jia-Rui Wang, Chu-Ting Yang, Lei Liu* and Qing-Xiang Guo*



A new rhodamine-based fluorescent chemosensor for transition metal cations synthesized by one-step facile condensation pp 5455–5459

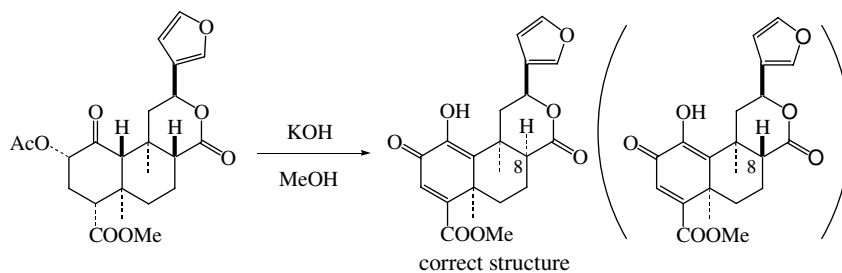
Xuan Zhang, Yasuhiro Shiraishi* and Takayuki Hirai



Revised structure of deacetyl-1,10-didehydrosalvinorin G

pp 5461–5464

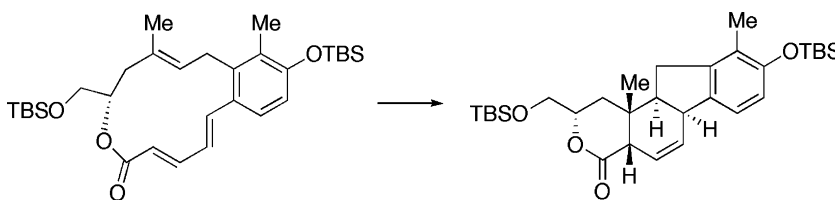
Zhongze Ma and David Y. W. Lee*



Studies toward the total synthesis of nakiterpiosin: construction of the CDE ring system by a transannular Diels–Alder strategy

pp 5465–5469

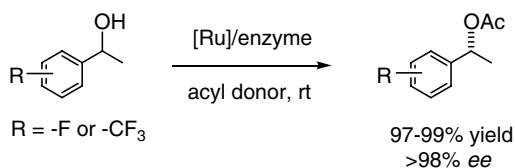
Tomonori Ito, Masahiro Ito, Hirokazu Arimoto,* Hiroyoshi Takamura* and Daisuke Uemura



High-yielding metalloenzymatic dynamic kinetic resolution of fluorinated aryl alcohols

pp 5471–5474

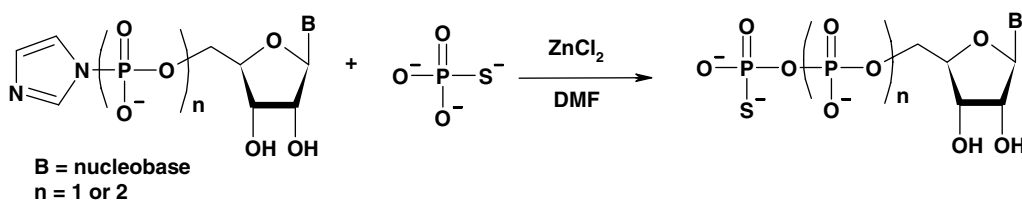
Krisztián Bogár and Jan-E. Bäckvall*



A simple and rapid synthesis of nucleotide analogues containing a phosphorothioate moiety at the terminal position of the phosphate chain

pp 5475–5479

Joanna Kowalska, Magdalena Lewdorowicz, Edward Darzynkiewicz and Jacek Jemielity*

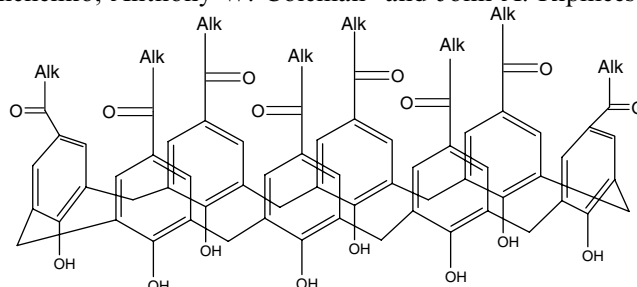


A straightforward method for the synthesis of nucleotide analogues bearing a phosphorothioate moiety at the terminal position of the polyphosphate chain is described.

Synthesis and self-assembly properties of *para*-acyl-calix[8]arenes

pp 5503–5506

Saïd Jebors, Gennady S. Ananchenko, Anthony W. Coleman* and John A. Ripmeester

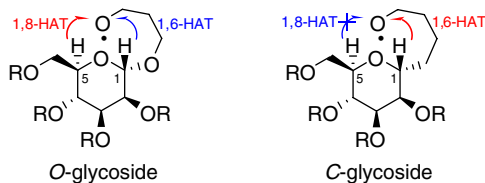


The synthesis and interfacial assembly properties of a series of five *para*-acyl-calix[8]arenes are described, the products are obtained in good yields and all form stable monolayers at the air–water interface.

Hydrogen atom transfer experiments provide chemical evidence for the conformational differences between *C*- and *O*-glycosides

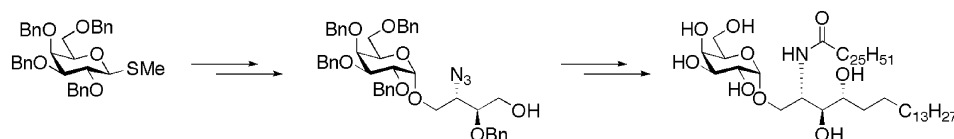
pp 5507–5511

Angeles Martín, Luis M. Quintanal and Ernesto Suárez*

**Concise syntheses of immunostimulating glycolipids, α -galactosyl ceramides**

pp 5513–5516

Takashi Tsujimoto and Yukishige Ito*

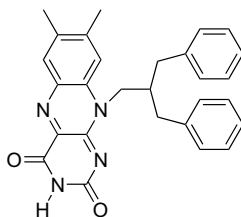


α -Galactosylceramides, potentially immunostimulating agents were synthesized in eight steps from a common intermediate.

A flavin analogue with improved solubility in organic solvents

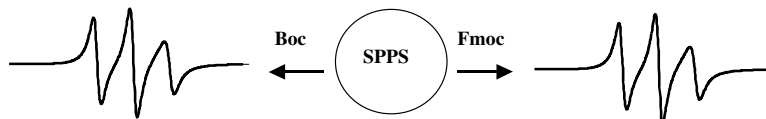
pp 5517–5520

Ronald L. Koder,* Bruce R. Lichtenstein, Jose F. Cerda, Anne-Frances Miller and P. Leslie Dutton



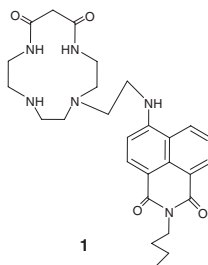
EPR investigation of the influence of side chain protecting groups on peptide–resin solvation of the Asx and Glx model containing peptides pp 5521–5524

Eduardo M. Cilli,* Eduardo F. Vicente, Edson Crusca, Jr. and Clovis R. Nakaie*


A novel colorimetric and fluorescent chemosensor: synthesis and selective detection for Cu²⁺ and Hg²⁺ pp 5525–5529

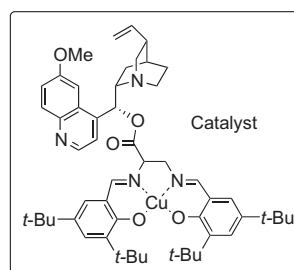
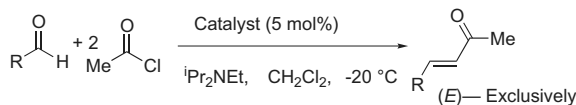
Honglei Mu, Rui Gong, Qiao Ma, Yimin Sun and Enqin Fu*

A novel chemosensor has been synthesized from macrocyclic dioxotetraamine with 1,8-naphthalimide derivative. In the presence of Cu²⁺ or Hg²⁺, the color of the solution changed from both yellow-green to almost colorless or orange, respectively, which make naked-eyes detection of these two metal ions possible. At the same time, in the presence of Cu²⁺ or Hg²⁺, its fluorescence has been quenched remarkably. It was found that **1** was a novel and unique colorimetric and fluorescent chemosensor for the optical detection of Cu²⁺ or Hg²⁺.


A catalytic, highly stereoselective aldehyde olefination reaction

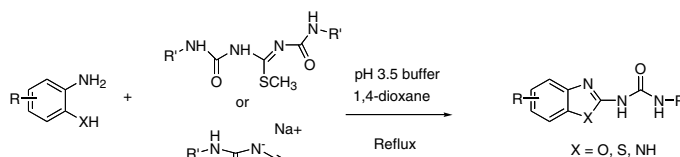
pp 5531–5534

Yun-Ming Lin,* Zhongtao Li, Virginie Casarotto, Jessica Ehrmantraut and Annie N. Nguyen


Facile preparation of fused ring azolylureas

pp 5535–5538

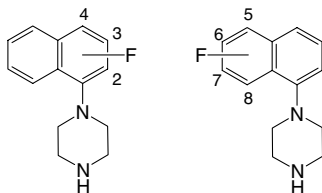
Joseph E. Drumm,* David D. Deininger, Arnaud LeTiran, Tiansheng Wang, Anne-Laure Grillot, Yusheng Liao, Steven M. Ronkin, Dean P. Stamos, Qing Tang, Shi-Kai Tian and Patricia Oliver-Shaffer



Synthesis of monofluorinated 1-(naphthalen-1-yl)piperazines

pp 5539–5541

Joseph T. Repine,* Douglas S. Johnson,* Andrew D. White, David A. Favor, Michael A. Stier, Judy Yip, Trent Rankin, Qizhu Ding and Samarendra N. Maiti

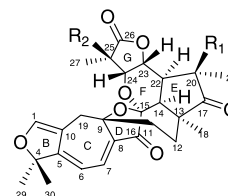


A series of regioisomerically monofluorinated 1-(naphthalen-1-yl)piperazines is described.

**Sphenalactones A–D, a new class of highly oxygenated trinortriterpenoids from *Schisandra sphenanthera*** pp 5543–5546

Wei-Lie Xiao, Liu-Meng Yang, Li-Mei Li, Jian-Xin Pu, Sheng-Xiong Huang, Zhi-Ying Weng, Chun Lei, Jing-Ping Liu, Rui-Rui Wang, Yong-Tang Zheng, Rong-Tao Li and Han-Dong Sun*

Four novel highly oxygenated trinortriterpenoids, sphenalactones A–D (**1–4**), were isolated from the leaves and stems of *Schisandra sphenanthera* and their structures were elucidated by extensive analysis of 1D and 2D NMR data. Compounds **1–4** featured a C₂₇ backbone and showed anti-HIV-1 activity with EC₅₀ values in the range of 35.5–89.1 µg/mL with a low cytotoxicity against C8166 cells (CC₅₀ > 200 µg/mL).

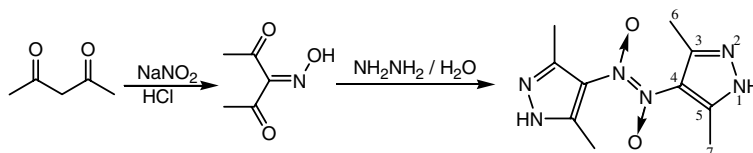


- 1** R₁ = OH R₂ = H
2 R₁ = H R₂ = OH
3 R₁ = OH R₂ = OH
4 R₁ = H R₂ = H

**Synthesis and spectroscopic studies of *trans*-bis-(3,5-dimethyl-4-nitrosopyrazole) dimer**

pp 5547–5550

Zeki A. Nasir Al-Shamkhani and Ali Hashem Essa*

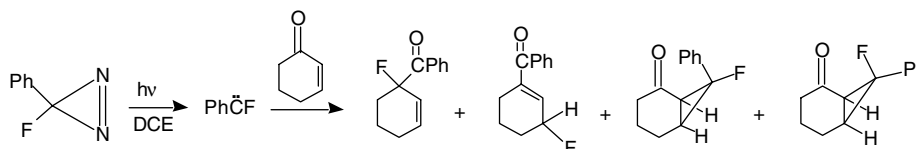


Bis-(3,5-dimethyl-4-nitrosopyrazole) dimer was prepared by reaction of acetyl acetone with nitrous acid and condensation with hydrazine. Spectroscopic techniques, such as IR, UV, ¹H NMR, and ¹³C NMR, and CHN analysis were used to identify the product.

Presumptive evidence for an intermediate oxirane in the reaction of phenylfluorocarbene with cyclohexenone

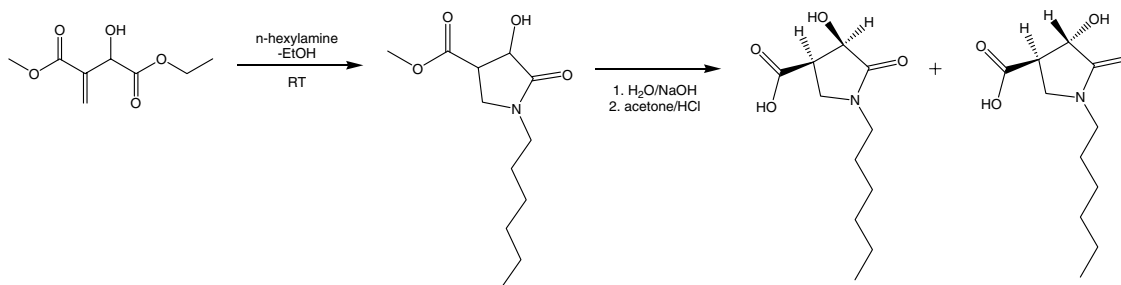
pp 5551–5554

Robert A. Moss,* Lei Wang and Ronald R. Sauer*



Synthesis of new polyfunctional 2-pyrrolidinones from methyl 2-(carboethoxyhydroxymethyl)acrylate pp 5555–5559

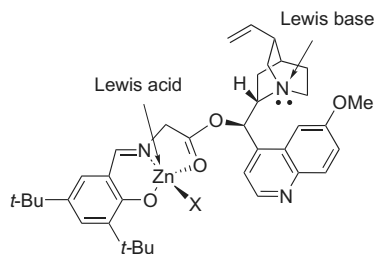
Jean-François Morizur and Lon J. Mathias*



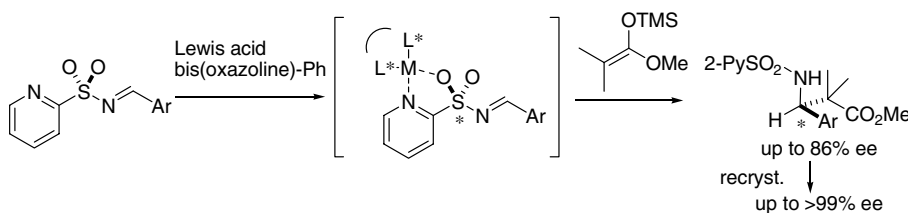
Facile synthesis of new polyfunctional 2-pyrrolidinone derivatives from methyl 2-(carboethoxyhydroxymethyl)acrylate.


Design and synthesis of a tridentate ligand for asymmetric bifunctional catalysis pp 5561–5564

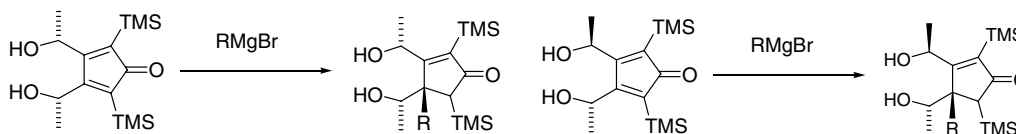
Virginie Casarotto, Zhongtao Li, Julie Boucau and Yun-Ming Lin*


Enantioselective Mannich-type reaction of sulfonylimines having 2-pyridylsulfonyl group as a novel stereocontroller pp 5565–5568

Shuichi Nakamura,* Hideaki Sano, Hiroki Nakashima, Koji Kubo, Norio Shibata and Takeshi Toru*


Stereoselective conjugate additions of Grignard reagents to cyclopentadienones pp 5569–5572

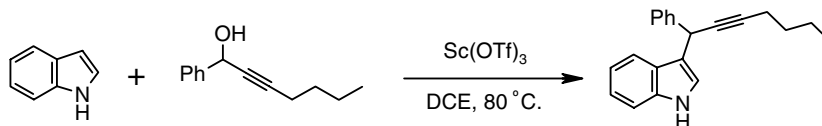
Anthony J. Pearson,* John D. Protasiewicz, James Updegraff and Ming Zhang



Sc(OTf)₃-catalyzed alkylation of indoles with propargyl alcohols: an expeditious synthesis of 3-substituted indoles

pp 5573–5576

J. S. Yadav,* B. V. Subba Reddy, K. V. Raghavendra Rao and G. G. K. S. Narayana Kumar



*Corresponding author

✉ Supplementary data available via ScienceDirect

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