

Tetrahedron Letters Vol. 49, No. 33, 2008

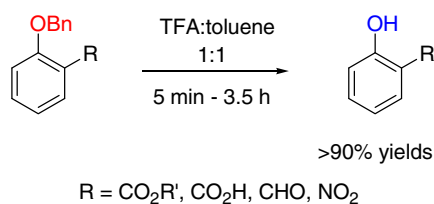
Contents

COMMUNICATIONS

Mild, efficient and rapid O-debenzylation of *ortho*-substituted phenols with trifluoroacetic acid

pp 4817–4819

Steven Fletcher ^{*}, Patrick T. Gunning ^{*}

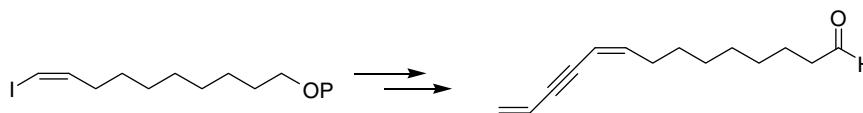


The mild, efficient and rapid O-debenzylation of *ortho*-substituted phenols with TFA is reported.

(9Z)-9,13-Tetradecadien-11-ynal, the sex pheromone of the avocado seed moth, *Stenoma catenifer*

pp 4820–4823

Jocelyn G. Millar ^{*}, Mark Hoddle, J. Stephen McElfresh, Yunfan Zou, Christina Hoddle

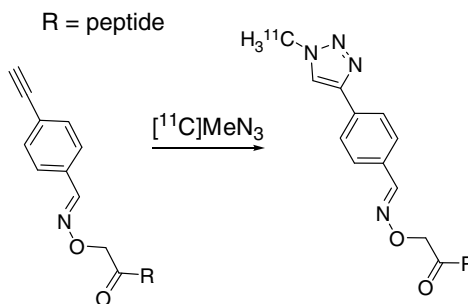


The terminal diene of the title compound constitutes the first example of a new class of lepidopteran pheromone structures.

Rapid in situ synthesis of [¹¹C]methyl azide and its application in ¹¹C click-chemistry

pp 4824–4827

Ralf Schirmmayer, Younes Lakhrissi, Dean Jolly, Julian Goodstein, Philippe Lucas, Esther Schirmmayer ^{*}



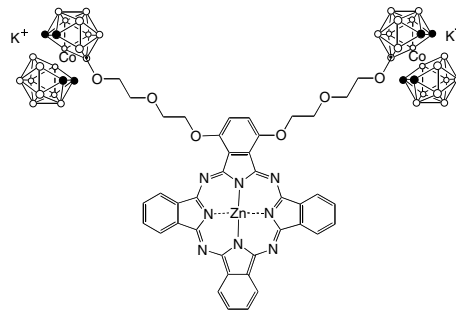
The in situ synthesis of [¹¹C]methyl azide and its application in click-chemistry are reported.

Synthesis and properties of cobaltacarborane-functionalized Zn(II)-phthalocyanines

pp 4828–4830

Hairong Li, Frank R. Fronczek, M. Graça H. Vicente *

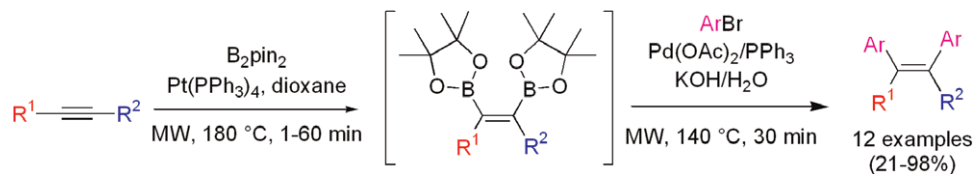
The synthesis of two A₃B-type Zn(II)-phthalocyanines containing either one or two cobaltacarborane residues is described. The X-ray structure of one key precursor is presented. The carboranyl-Pcs are highly soluble in polar solvents and might find application as dual sensitizers in PDT and BNCT.



Microwave-assisted one-pot diboration/Suzuki cross-couplings. A rapid route to tetrasubstituted alkenes

pp 4831–4835

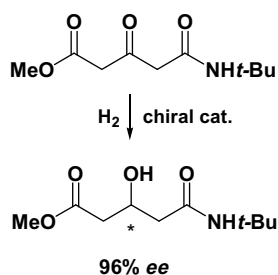
Hana Prokopcová, Jesús Ramírez, Elena Fernández, C. Oliver Kappe *



Highly enantioselective catalytic hydrogenation of a 5-amino-3,5-dioxopentanoic ester

pp 4836–4839

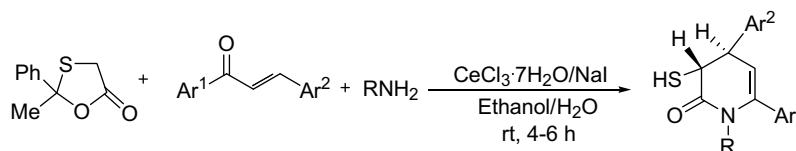
Vasyl Andrushko *, Natalia Andrushko, Gerd König, Armin Börner *



A Ce(III)-catalyzed expeditious multicomponent stereoselective synthesis of 3-mercapto-2(1H)-pyridinones

pp 4840–4844

Lal Dhar S. Yadav *, Ritu Kapoor

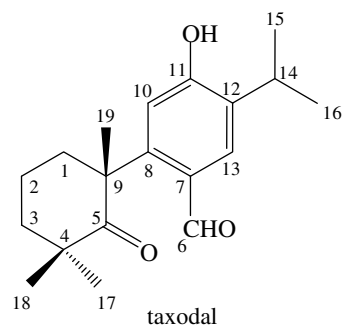


Taxodal, a novel irregular abietane-type diterpene from the cones of *Taxodium distichum*

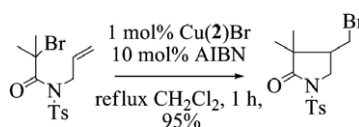
pp 4845–4847

Noriyoshi Kusumoto ^{*}, Tetsuya Murayama, Yasushi Kawai, Tatsuya Ashitani, Koichi Ogiyama, Koetsu Takahashi

One novel irregular abietane-type diterpene denominated taxodal **1** was isolated from the cones of *Taxodium distichum*. The structure was estimated on the basis of NMR spectral data and confirmed by X-ray crystallographic analysis.

**Copper mediated atom transfer radical cyclisations with AIBN**

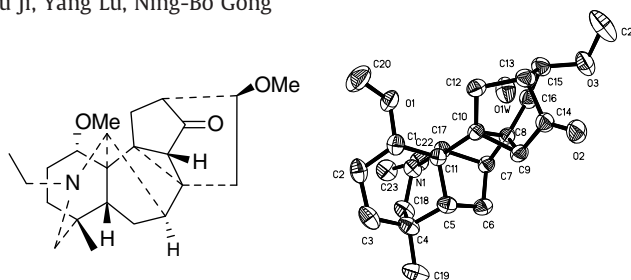
pp 4848–4850

Andrew J. Clark ^{*}, Paul Wilson

Addition of AIBN allows either CuBr or CuBr₂/tripirydylamine (**2**) complexes to facilitate atom transfer radical cyclisations with a 30–300-fold decrease in amount of catalyst required compared to traditional reported reactions.

Vilmoraconitine, a novel skeleton C₁₉-diterpenoid alkaloid from *Aconitum vilmorinianum*

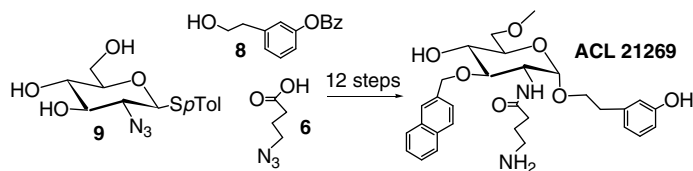
pp 4851–4853

Jiang Xiong, Ning-Hua Tan ^{*}, Chang-Jiu Ji, Yang Lu, Ning-Bo Gong

A novel C₁₉-diterpenoid alkaloid vilmoraconitine A was isolated from *Aconitum vilmorinianum*. This is the first aconitine-type C₁₉-diterpenoid alkaloid with one three-membered ring at C-8, C-9, and C-10.

**Synthesis of a metabolite of an anti-angiogenic lead candidate based on a D-glucosamine motif**

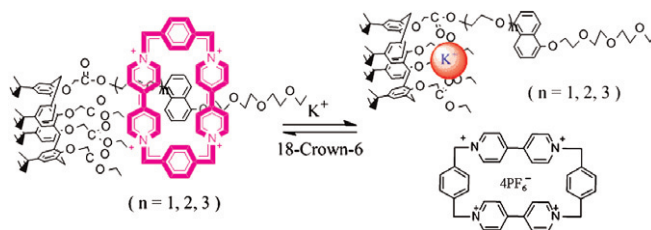
pp 4854–4856

Latika Singh, Ann Lam, Rajaratnam Premraj, Joachim Seifert ^{*}

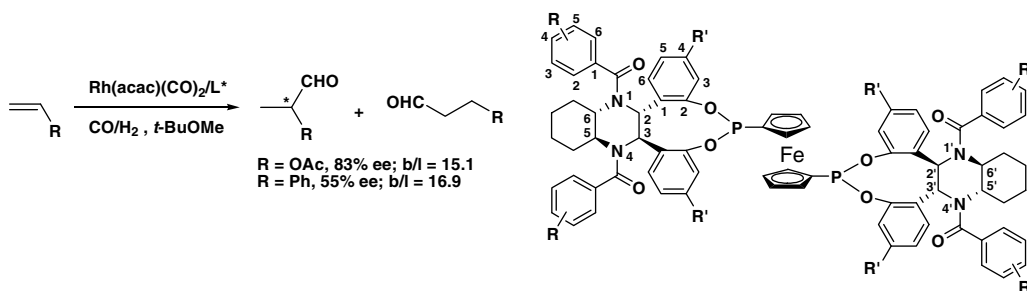
A rapid synthetic access to **ACL 21269** was established in 12 steps starting from thioglycoside **9** utilizing synthons **8** and **6** to introduce the pharmacophores at positions 1 and 2.

Tunable threading/dethreading efficiency of the pseudorotaxane by ether chain length

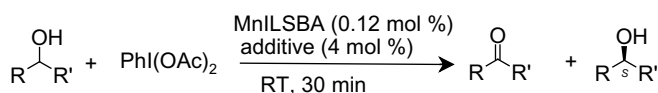
pp 4857–4861

Junbo Li, Weidong Zhou, Yuliang Li ^{*}, Huibiao Liu, Canbin Ouyang, Xiaodong Yin, Haiyan Zheng, Zicheng Zuo**Ferrocene-based bidentate phosphonite ligands for rhodium(I)-catalyzed enantioselective hydroformylation**

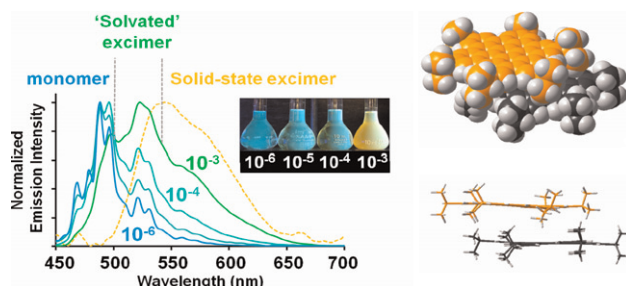
pp 4862–4864

Xingao Peng, Zheng Wang, Chungu Xia ^{*}, Kuiling Ding ^{*}**A chiral Mn(III) salen complex immobilized onto ionic liquid modified mesoporous silica for oxidative kinetic resolution of secondary alcohols**

pp 4865–4868

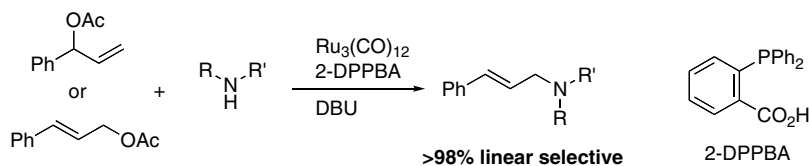
Suman Sahoo, Pradeep Kumar, F. Lefebvre, S. B. Halligudi ^{*}**Synthesis and electronic properties of iso-alkyl substituted hexa-*peri*-hexabenzocoronenes (HBC's) from a versatile new HBC synthon, hexakis(4-acetylphenyl)benzene**

pp 4869–4872

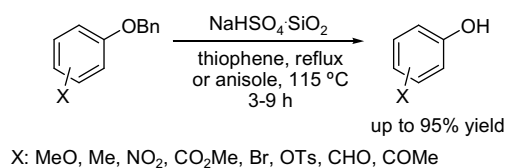
Vincent J. Chebny, Chengto Gwengo, James R. Gardinier ^{*}, Rajendra Rathore ^{*}

Ruthenium-catalyzed linear selective allylic aminations of monosubstituted allyl acetates

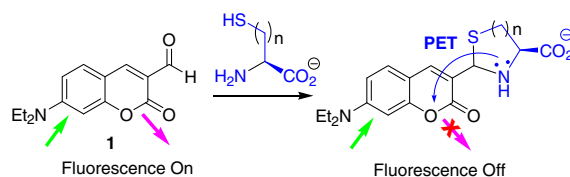
pp 4873–4875

Motoi Kawatsura ^{*}, Fumio Ata, Takuya Hirakawa, Shuichi Hayase, Toshiyuki Itoh ^{*}**Selective debenzoylation of aromatic benzyl ethers by silica-supported sodium hydrogen sulfate**

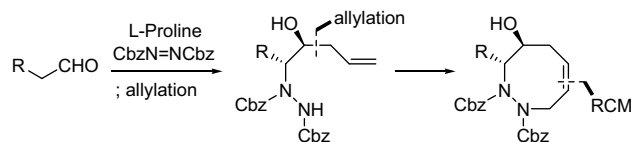
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Linna Zhou, Wenjing Wang, Li Zuo ^{*}, Shanyan Yao, Wei Wang ^{*}, Wenhui Duan ^{*}**Highly selective fluorescent sensor for homocysteine and cysteine**

pp 4879–4881

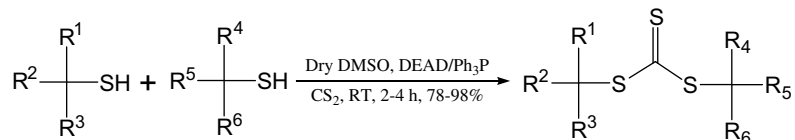
Tae-Ki Kim, Dong-Nam Lee, Hae-Jo Kim ^{*}**Organocatalytic α -amination–allylation-RCM strategy: enantioselective synthesis of cyclic hydrazines**

pp 4882–4885

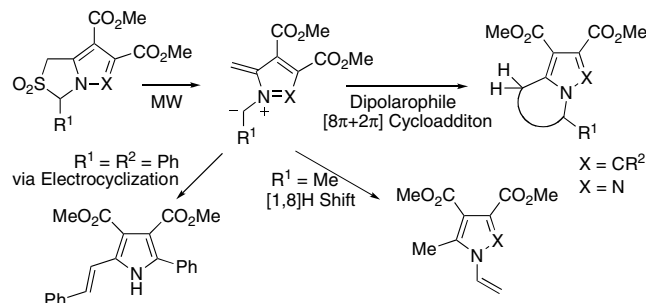
Aram Lim, Jung Hoon Choi, Jinsung Tae ^{*}

An efficient, one-pot synthesis of trithiocarbonates from the corresponding thiols using the Mitsunobu reagent

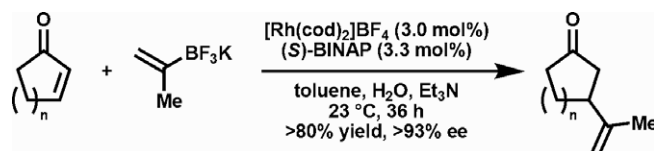
pp 4886–4888

Devdutt Chaturvedi ^{*}, Amit K. Chaturvedi, Nisha Mishra, Virendra Mishra**Microwave-assisted generation and reactivity of aza- and diazafulvenium methides: heterocycles via pericyclic reactions**

pp 4889–4893

Maria I. L. Soares, Teresa M. V. D. Pinho e Melo ^{*}**Enantioselective rhodium(I)-triethylamine catalyzed addition of potassium isopropenyl trifluoroborate to enones**

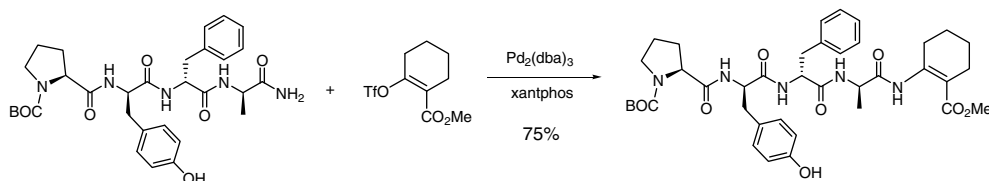
pp 4894–4896

Gojko Lalic, E. J. Corey ^{*}

A general process is reported for the highly enantioselective 1,4-addition of isopropenyl trifluoroborate to cyclic enones under catalysis by a chiral Rh(I) complex and triethylamine at room temperature.

The synthesis and conformational analysis of amino acid–tetrahydroanthranilic acid hybrids

pp 4897–4900

Jason E. Imbriglio ^{*}, Daniel DiRocco, Subharekha Raghavan, Richard G. Ball, Nancy Tsou, Ralph T. Mosley, James R. Tata, Steven L. Colletti

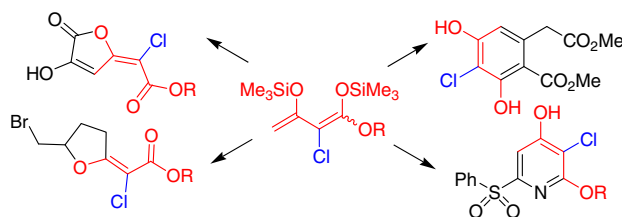
The optimization of a palladium-catalyzed amidation reaction providing a new class of amino acid–tetrahydroanthranilic acid derivatives has been achieved. The scope of the reaction and preliminary conformational analysis of the resulting series of molecules is discussed.



Synthesis and reactions of 2-chloro-1,3-bis(trimethylsilyloxy)-1,3-butadienes

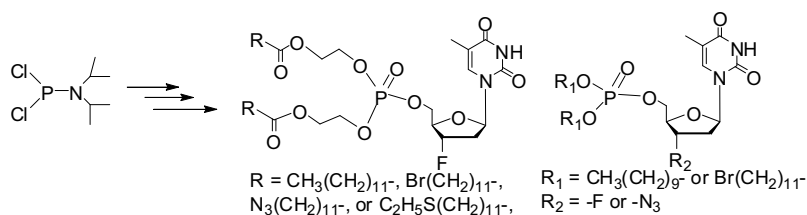
pp 4901–4904

Stefanie Reim, Muhammad Adeel, Ibrar Hussain, Mirza A. Yawer, Zafar Ahmed, Alexander Villinger, Peter Langer *

**Synthesis and anti-HIV activities of phosphate triester derivatives of 3'-fluoro-2',3'-dideoxythymidine and 3'-azido-2',3'-dideoxythymidine**

pp 4905–4907

Hitesh K. Agarwal, Gustavo F. Doncel, Keykavous Parang *

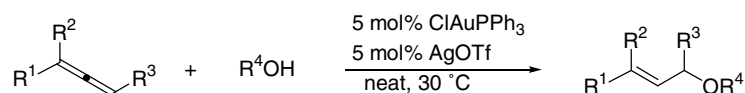


Methods for the synthesis of 5'-O-phosphotriester derivatives of nucleosides are described.

**Gold-catalyzed intermolecular hydroalkoxylation of allenes; difference in mechanism between hydroalkoxylation and hydroamination**

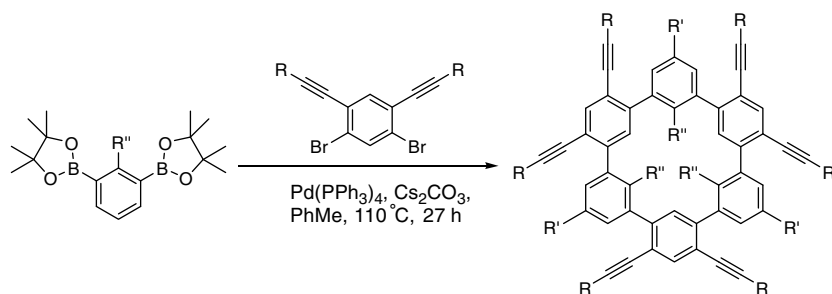
pp 4908–4911

Naoko Nishina, Yoshinori Yamamoto *

**Synthesis of arylethynylated cyclohexa-*m*-phenylenes via sixfold Suzuki coupling**

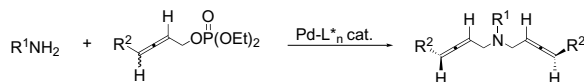
pp 4912–4914

Julian M. W. Chan, Timothy M. Swager *

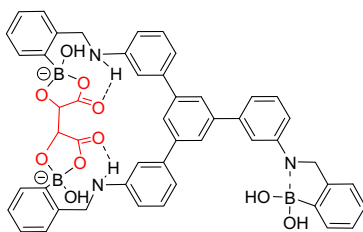


Sequential asymmetric homoallylation of primary amines with a palladium catalyst

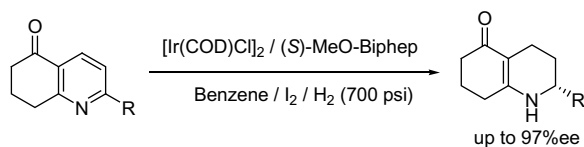
pp 4915–4917

Yasushi Imada ^{*}, Masayuki Nishida, Takeshi Naota ^{*}**Highly efficient fluorescent sensing for α -hydroxy acids with C₃-symmetric boronic acid-based receptors**

pp 4918–4921

Wen-Zhi Xu, Zhi-Tang Huang, Qi-Yu Zheng ^{*}**Iridium-catalyzed asymmetric hydrogenation of pyridine derivatives, 7,8-dihydro-quinolin-5(6H)-ones**

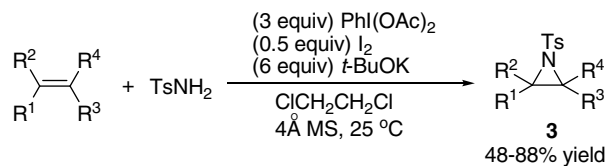
pp 4922–4924

Xiao-Bing Wang, Wei Zeng, Yong-Gui Zhou ^{*}

[Ir(COD)Cl]₂/MeO-Biphep/I₂ catalyst system is highly effective for asymmetric hydrogenation of pyridine derivatives, 7,8-dihydro-quinolin-5(6H)-ones, up to 97% ee was obtained.

PhI(OAc)₂/I₂ induced aziridination of alkenes with TsNH₂ under mild conditions

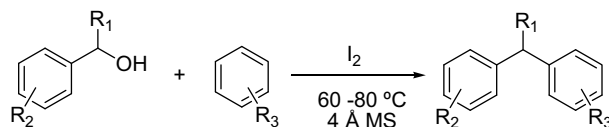
pp 4925–4928

Renhua Fan ^{*}, Dongming Pu, Jianhong Gan, Bing Wang ^{*}

Molecular iodine-catalyzed benzylation of arenes with benzyl alcohols

pp 4929–4932

Gaojun Sun, Zhiyong Wang *

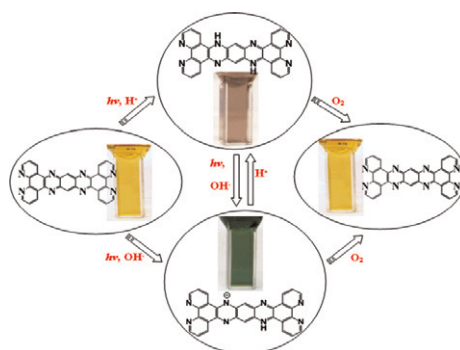


A molecular iodine-catalyzed benzylation was carried out under mild condition to afford the corresponding product in high yield and good regioselectivity.

**Tuning the reduction of 9,11,20,22-tetraaza-tetrapyrrodo-pentacene (TATPP)**

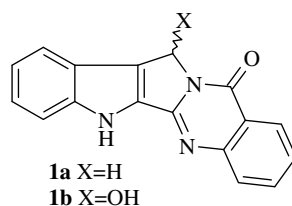
pp 4933–4936

Wen Guo, Sherine O. Obare *

**Synthesis of hybrids between the alkaloids rutaecarpine and luotonins A, B**

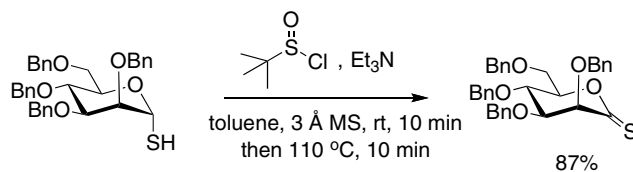
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Máté Bubenyák *, Melinda Pálfi, Mária Takács, Szabolcs Béni, Éva Szökő, Béla Noszál, József Kökösi

**One-pot synthesis of carbohydrate thionolactones from 1-thiosugars**

pp 4941–4943

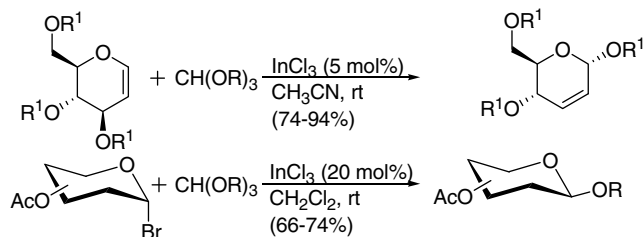
Brendan L. Wilkinson, Antony J. Fairbanks *



Indium trichloride promoted stereoselective synthesis of O-glycosides from trialkyl orthoformates

pp 4944–4948

Debaraj Mukherjee, Syed Khalid Yousuf, Subhash C. Taneja *

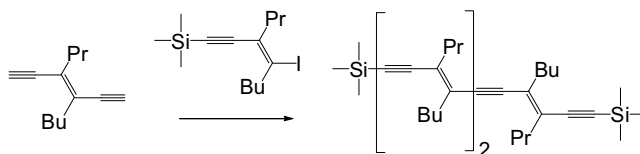


A novel, highly stereoselective O-glycosylation method, in which orthoesters have been used as acceptors with glycals and glycosyl bromides in the presence of InCl_3 to afford the corresponding O-glycopyranosides in 66–95% yield, is developed. Both perbenzyl and peracetyl glycals afford the corresponding 2,3-unsaturated O-glycosides with high α -selectivity.

Divergent synthesis and optoelectronic properties of oligodiacetylene building blocks

pp 4949–4952

Gregor S. Pilzak, Barend van Lagen, Ernst J. R. Sudhölter, Han Zuilhof *

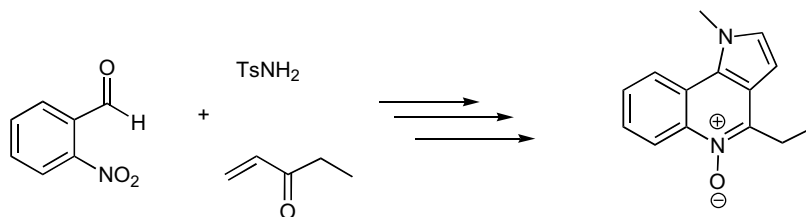


A novel and divergent synthetic route to prepare oligodiacetylene building blocks via Sonogashira reactions under a reductive atmosphere is described.

Synthesis of a novel pyrrolo-[3,2-c]quinoline N-oxide by aza-Baylis–Hillman adduct of o-nitrobenzaldehyde

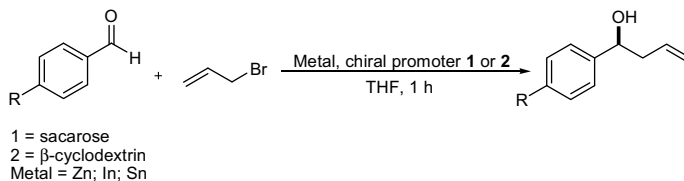
pp 4953–4955

Evelina Colacino, Christophe André, Jean Martinez, Frédéric Lamaty *

**Carbohydrates in asymmetric synthesis: enantioselective allylation of aldehydes**

pp 4956–4957

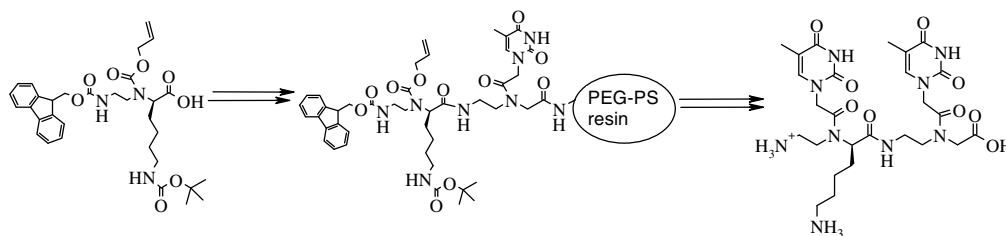
Helmoz R. Appelt *, Jane B. Limberger, Minéia Weber, Oscar E. D. Rodrigues, Julieta S. Oliveira, Diogo S. Lüdtkke, Antonio L. Braga *



A Fmoc-based submonomeric strategy for the solid phase synthesis of optically pure chiral PNAs

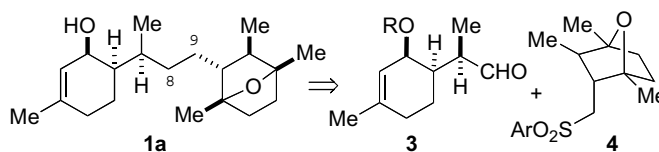
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Tullia Tedeschi, Stefano Sforza *, Francesca Maffei, Roberto Corradini, Rosangela Marchelli

**Convergent total synthesis of the racemic HIF-1 inhibitor laurenditerpenol**

pp 4962–4964

Michael E. Jung *, G-Yoon J. Im

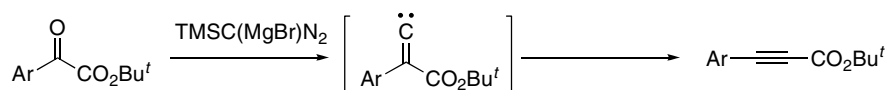


The convergent total synthesis of the HIF-1 inhibitor laurenditerpenol **1a** is reported. The key step is the Julia olefination–reduction process between the two readily available components, the sulfone **4** and the aldehyde **3**.

New synthesis of *t*-butyl arypropiolates using diazo(trimethylsilyl)methylmagnesium bromide

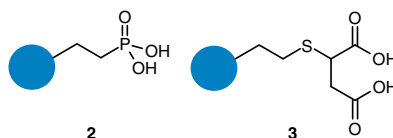
pp 4965–4967

Yoshiyuki Hari, Koji Date, Ryosuke Kondo, Toyohiko Aoyama *

**New functionalised silicas for highly selective cation exchange SPE purification in medicinal chemistry**

pp 4968–4971

Jane Brown, Alessandra Chighine, Marie A. Colucci, Nicola Galaffu, Simon C. Hirst, Helen M. Seymour, Jason J. Shiers, Robin D. Wilkes *, Jonathan G. Williams, John R. H. Wilson

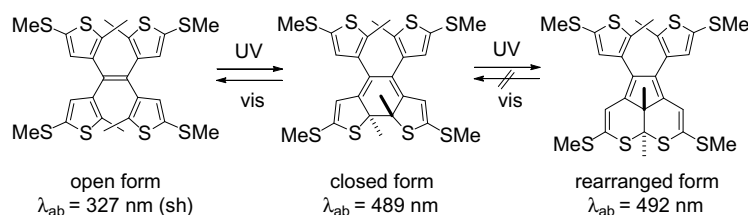


Functionalised silicas **2** and **3** are effective for cation exchange purifications of basic molecules containing acid-sensitive functionalities, selective separations of mixtures of basic compounds and accelerated reaction work-ups/product isolations.

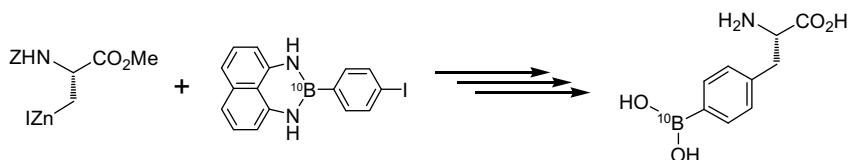


Photochromic properties of tetrakis(2-methylthien-3-yl)ethene and its tetrakis(methylthio) derivative

pp 4972–4976

Hiroshi Ikeda ^{*}, Azusa Sakai, Akinori Kawabe, Hayato Namai, Kazuhiko Mizuno ^{*}**Development of the first and practical method for enantioselective synthesis of ¹⁰B-enriched *p*-borono-L-phenylalanine**

pp 4977–4980

Yoshihide Hattori, Tomoyuki Asano, Mitsunori Kirihaata, Yoshihiro Yamaguchi, Tateaki Wakamiya ^{*}**OTHER CONTENTS****Corrigendum**

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^{*}Corresponding author

Supplementary data available via ScienceDirect

Available online at www.sciencedirect.com

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®].



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