

Tetrahedron Letters Vol. 49, No. 47, 2008

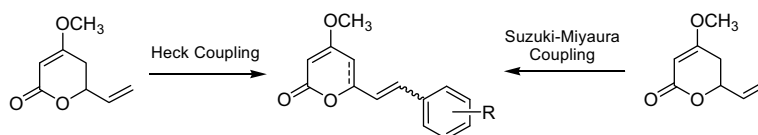
Contents

COMMUNICATIONS

Towards synthesis of kavalactone derivatives

pp 6607–6609

Patrícia A. Amaral, Nicolas Gouault, Myriam Le Roch, Vera L. Eifler-Lima, Michèle David *



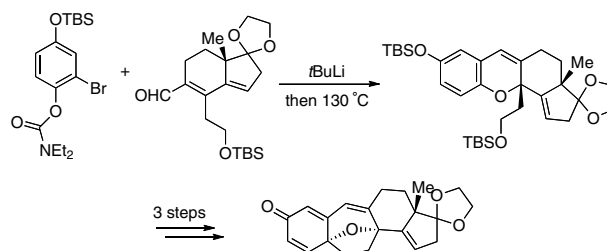
Two strategies using palladium-catalyzed coupling reaction have been developed for the synthesis of kavalactone derivatives.



A concise synthesis of the cortistatin core

pp 6610–6612

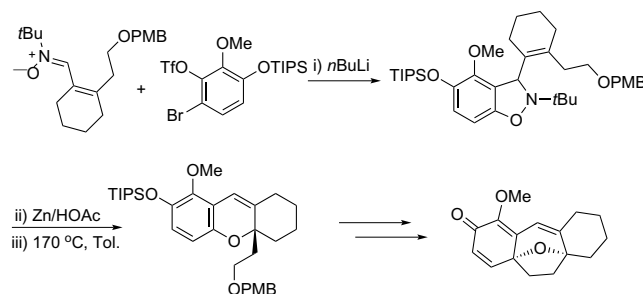
Mingji Dai, Samuel J. Danishefsky *



A novel α,β -unsaturated nitron-aryne [3+2] cycloaddition and its application in the synthesis of the cortistatin core

pp 6613–6616

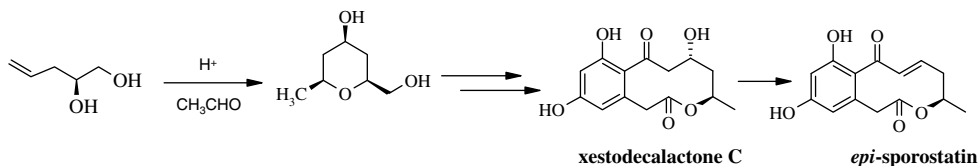
Mingji Dai, Zhang Wang, Samuel J. Danishefsky *



The stereoselective total synthesis of xestodecalactone C and *epi*-sporostatin via the Prins cyclisation

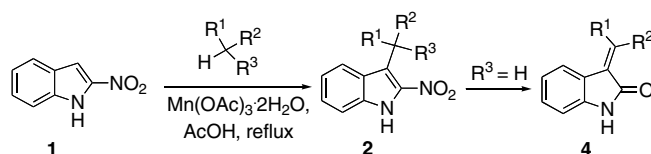
pp 6617–6620

J. S. Yadav *, N. Thrimurtulu, K. Uma Gayathri, B. V. Subba Reddy, A. R. Prasad

**Mn(III)-based radical addition reactions of 2-nitroindole with activated CH compounds**

pp 6621–6623

Dmitry A. Androsov, Tara L. S. Kishbaugh, Gordon W. Gribble *

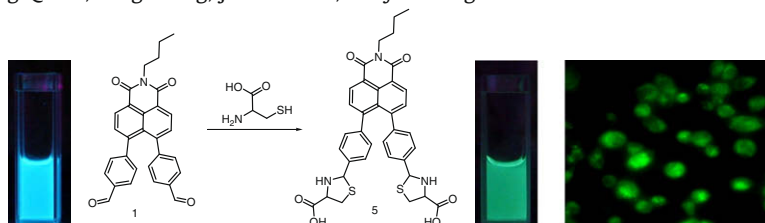


2-Nitroindole (**1**) undergoes radical addition reactions with the radicals generated from active CH compounds upon treatment with $\text{Mn}(\text{OAc})_3 \cdot 2\text{H}_2\text{O}$ to afford the corresponding 3-substituted-2-nitroindoles (**2**). The products of methylene addition undergo an in situ Nef reaction to afford 2-oxoindolin-3-ylidenes (**4**).

Highly selective fluorescent chemosensor with red shift for cysteine in buffer solution and its bioimage: symmetrical naphthalimide aldehyde

pp 6624–6627

Liping Duan, Yufang Xu, Xuhong Qian *, Fang Wang, Jianwen Liu, Tanyu Cheng

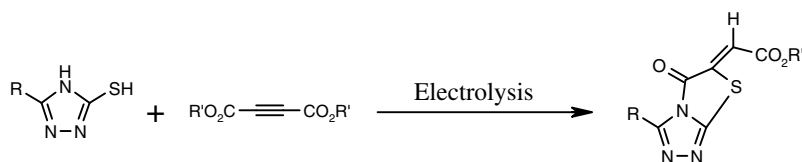


An aqueous soluble fluorophore chemosensor **1** for recognition of Cys was designed and synthesized easily, and it displays high selectivity for Cys by fluorometric enhancement with red-shift in aqueous solution. It displays high selectivity for Cys by fluorometric enhancement with red-shift in aqueous solution without the interference of other amino acids. Moreover, fluorescence images indicate that **1** can be used for bioimaging of Cys in living cell.

Novel electrosynthesis of a condensed thioheterocyclic system containing a 1,2,4-triazole ring

pp 6628–6630

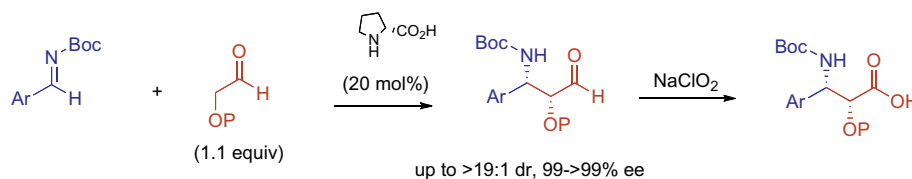
Lida Fotouhi *, Rahim Hekmatshoar, Majid M. Heravi *, Sodeh Sadjadi, Vahideh Rasmi



Catalytic asymmetric synthesis of the docetaxel (Taxotere) side chain: organocatalytic highly enantioselective synthesis of esterification-ready α -hydroxy- β -amino acids

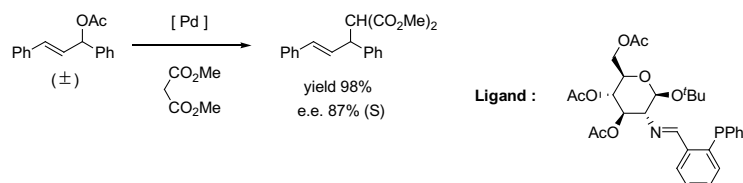
pp 6631–6634

Pawel Dziedzic, Jan Vesely, Armando Córdoba *

**Simple D-glucosamine-based phosphine-imine and phosphine-amine ligands in Pd-catalyzed asymmetric allylic alkylations**

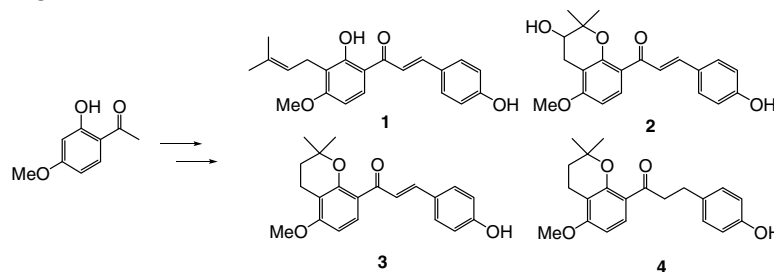
pp 6635–6638

Katarzyna Glegoła, Sine A. Johannesen, Laura Thim, Catherine Goux-Henry, Troels Skrydstrup *, Eric Framery *

**Synthesis of 4-hydroxyderricin and related derivatives**

pp 6639–6641

Kazuhiro Sugamoto *, Chiaki Kurogi, Yoh-ichi Matsushita, Takanao Matsui

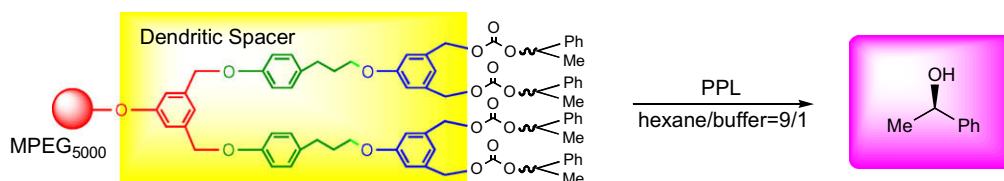


Naturally occurring chalcones, namely 4-hydroxyderricin (1), xanthoangelol H (2), deoxyxanthoangelol H (3), and deoxydihydroxanthoangelol H (4), were first synthesized and evaluated for antibacterial activities.

Enzyme-mediated enantioselective hydrolysis of soluble polymer-supported dendritic carbonates

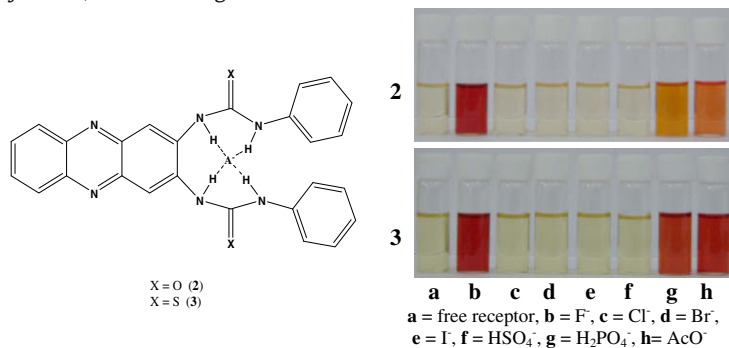
pp 6642–6645

Masayuki Okudomi, Masaki Nogawa, Naoka Chihara, Makoto Kaneko, Kazutsugu Matsumoto *

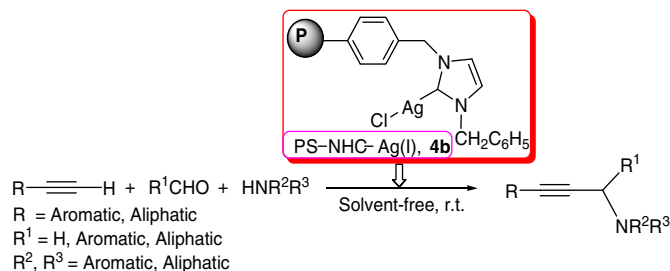


Anion sensing by Phenazine-based urea/thiourea receptors

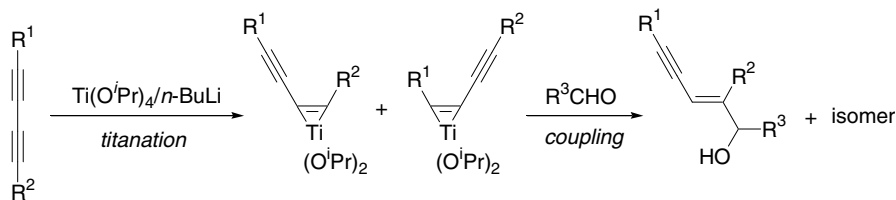
pp 6646–6649

Shive Murat Singh Chauhan ^{*}, Tanuja Bisht, Bhaskar Garg**Highly efficient three-component (aldehyde–alkyne–amine) coupling reactions catalyzed by a reusable PS-supported NHC–Ag(I) under solvent-free reaction conditions**

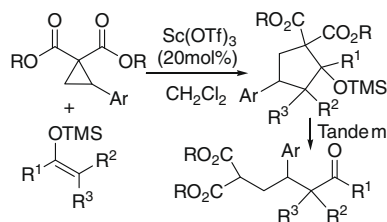
pp 6650–6654

Pinhua Li, Lei Wang ^{*}, Yicheng Zhang, Min Wang**Dialkyltitanium-mediated titanation of conjugated 1,3-butadiynes and its coupling reactions with aldehydes: a facile synthesis of stereodefined enynes and *trans*-enynols**

pp 6655–6658

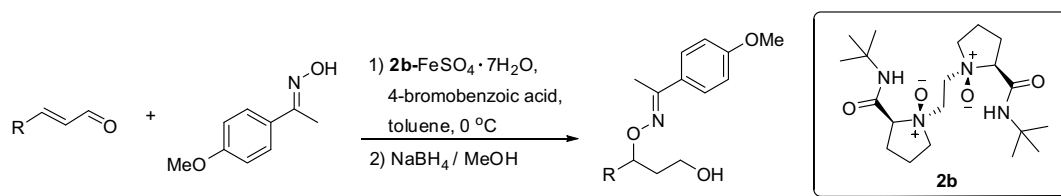
Jingjin Chen, Yuanhong Liu ^{*}**Sc(OTf)₃-catalyzed smooth tandem [3+2] cycloaddition/ring opening of donor–acceptor cyclopropane 1,1-diester with enol silyl ethers**

pp 6659–6662

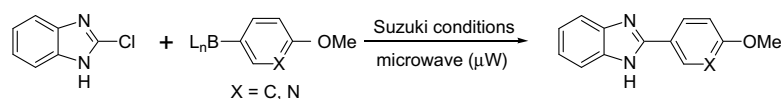
Jie Fang, Jun Ren, Zhongwen Wang ^{*}

Chiral *N,N'*-dioxide-iron(II) complexes catalyzed enantioselective oxa-Michael addition of α,β -unsaturated aldehydes pp 6663–6666

Lu Chang, Deju Shang, Junguo Xin, Xiaohua Liu, Xiaoming Feng *

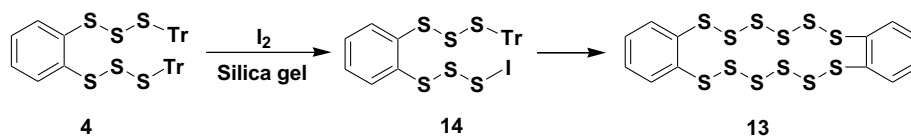
**Synthesis of 2-arylbenzimidazoles via microwave Suzuki–Miyaura reaction of unprotected 2-chlorobenzimidazoles** pp 6667–6669

Brad M. Savall *, Jill R. Fontimayor

**A powerful method to prepare sulfur-rich macrocycles**

Andrzej Z. Rys, Imad A. Abu-Yousef *, David N. Harpp

pp 6670–6673

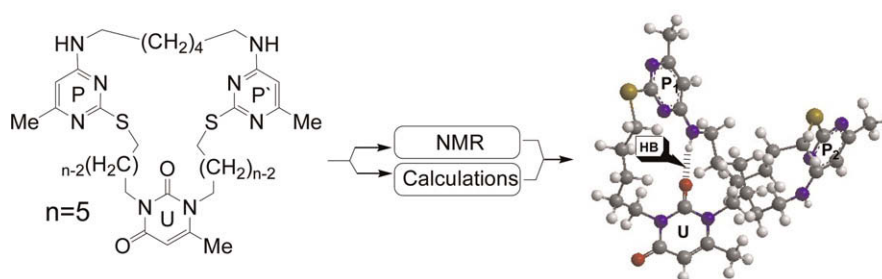


A simple, efficient one-step method to prepare cyclic polysulfanes (up to a 16-membered ring) is described.

Structure and dynamics of pyrimidine-based macrocycles in solution

Artem V. Kozlov, Vyacheslav E. Semenov, Anatoliy S. Mikhailov, Vladimir S. Reznik, Shamil K. Latypov *

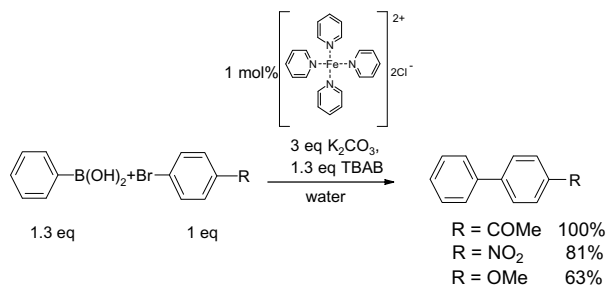
pp 6674–6678



trans-Tetrakis(pyridine)dichloroiron(II) as catalyst for Suzuki cross-coupling in ethanol and water

pp 6679–6681

Tuula Kylmäälä, Arto Valkonen, Kari Rissanen, Youjun Xu, Robert Franzén *

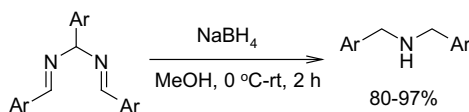


An iron(II)–pyridine complex is a novel type of catalyst for the Suzuki–Miyaura coupling making possible the reaction under air in ethanol, aqueous ethanol and water.

Highly chemoselective reductive amination-coupling by one-pot reaction of aldehydes, HMDS and NaBH₄

pp 6682–6684

Najmedin Azizi, Elham Akbari, Alireza Khejeh Amiri, Mohammad R. Saidi *

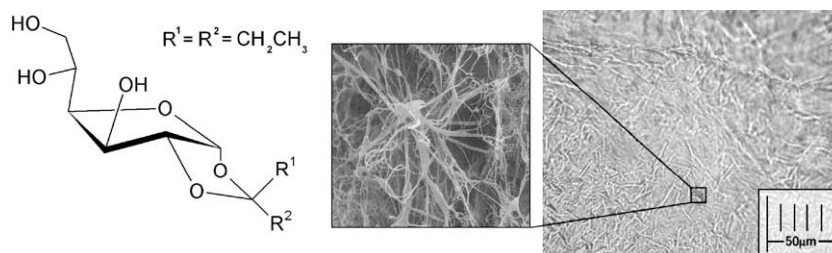


An efficient and highly chemoselective synthesis of symmetrical secondary amines via reductive amination of aldehydes with inexpensive and commercially available HMDS and sodium borohydride in high to quantitative yields is reported.

1,2-O-(1-Ethylpropylidene)- α -D-glucufuranose, a low molecular mass organogelator: benzene gel formation and their thermal stabilities

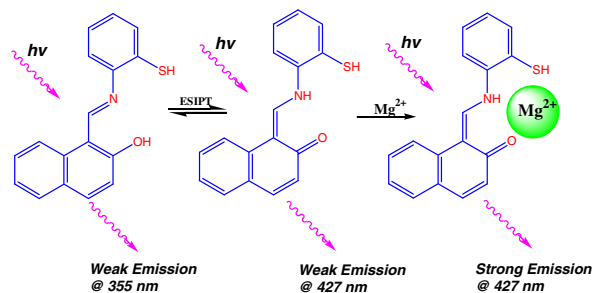
pp 6685–6689

Michał Bielejewski, Andrzej Łapiński, Joanna Kaszyńska, Roman Luboradzki, Jadwiga Tritt-Goc *

**A ratiometric fluorescent probe for magnesium employing excited state intramolecular proton transfer**

pp 6690–6692

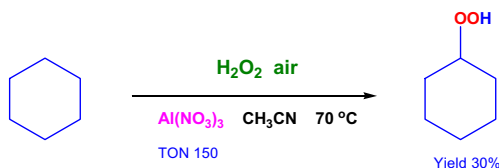
Narinder Singh, Navneet Kaur, Ray C. Mulrooney, John F. Callan *



Hydroperoxidation of alkanes with hydrogen peroxide catalyzed by aluminium nitrate in acetonitrile

pp 6693–6697

Dalmo Mandelli, Karyna C. Chiacchio, Yuriy N. Kozlov, Georgiy B. Shul'pin *

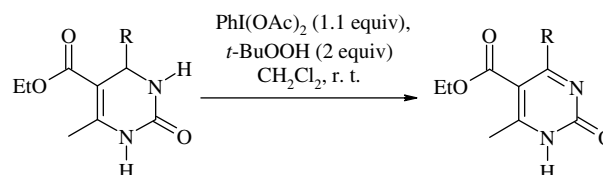


The first example of alkane oxygenation with hydrogen peroxide catalyzed by a non-transition metal derivative (aluminum) is reported.

**A novel combination of (diacetoxyiodo)benzene and *tert*-butylhydroperoxide for the facile oxidative dehydrogenation of 3,4-dihydropyrimidin-2(1H)-ones**

pp 6698–6700

Nandkishor N. Karade *, Sumit V. Gampawar, Jeevan M. Kondre, Girdharilal B. Tiwari

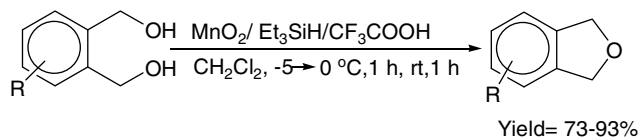


A clean and efficient oxidative dehydrogenation of 3,4-dihydropyrimidin-2(1H)-ones to 1,2-dihydropyrimidines has been achieved through a novel combination of (diacetoxyiodo)benzene and *tert*-butylhydroperoxide in CH_2Cl_2 .

**A one-pot tandem oxidation–reduction protocol for the synthesis of cyclic ethers from their diols**

pp 6701–6703

Biswajit Panda, Tarun K. Sarkar *

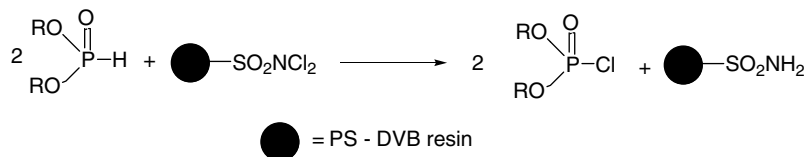


A high yielding one-pot method using a cocktail of $\text{MnO}_2/\text{Et}_3\text{SiH}/\text{CF}_3\text{COOH}$ for conversion of *ortho* diols to cyclic ethers is reported. This procedure is also amenable to the synthesis of several acyclic ethers from two different alcohols. Irrespective of the nature of the product, (cyclic or acyclic) ethers, one of the alcohols has to be benzylic.

***N,N*-Dichloro poly(styrene-co-divinyl benzene) sulfonamide polymeric beads: an efficient and recyclable reagent for the synthesis of dialkyl chlorophosphates from dialkylphosphites at room temperature**

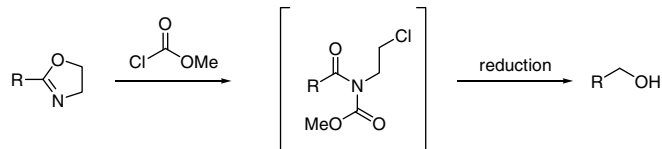
pp 6704–6706

Hemendra K. Gupta, Avik Mazumder, Prabhat Garg, Pranav K. Gutch, Devendra K. Dubey *

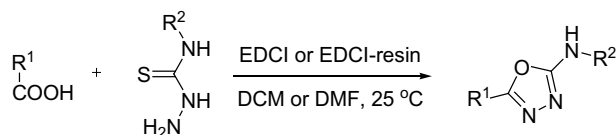


Practical reduction of oxazolines to alcohols

pp 6707–6708

Anna Bernardi, Stéphane G. Ouellet ^{*}, Remy Angelaud, Paul D. O'Shea**Efficient one-pot synthesis of substituted 2-amino-1,3,4-oxadiazoles**

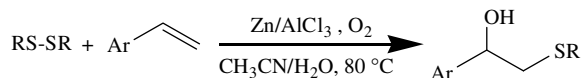
pp 6709–6711

Eugene L. Piatnitski Chekler ^{*}, Hassan M. Elokdah, John Butera

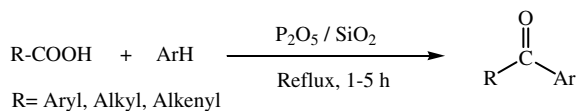
A convenient one-pot method for the preparation of substituted 2-amino-1,3,4-oxadiazoles is described.

One-pot synthesis of β -hydroxysulfides from styrenes and disulfides using the Zn/AlCl₃ system

pp 6712–6714

Barahman Movassagh ^{*}, Mozghan Navidi**Friedel–Crafts acylation of aromatic compounds with carboxylic acids in the presence of P₂O₅/SiO₂ under heterogeneous conditions**

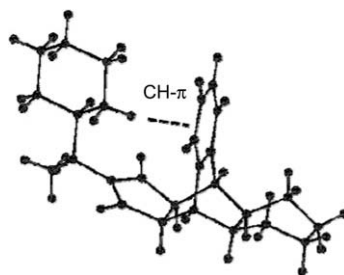
pp 6715–6719

Amin Zarei ^{*}, Abdol R. Hajipour, Leila KhazdoozA convenient and efficient procedure for the Friedel–Crafts acylation of aromatic compounds with carboxylic acids in the presence of P₂O₅/SiO₂ is described.

Stereo-specific synthesis of hydroanthracene-dicarboximides

pp 6720–6723

Delphine Sanhes, Isabelle Favier, Nathalie Saffon, Emmanuelle Teuma, Montserrat Gómez *

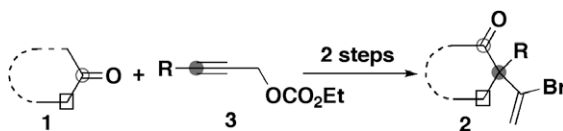


Only one conformer for hydroanthracene-dicarboximides has been isolated due to an hindered rotation around the N–CH axis together with a strong intramolecular CH/π interaction.

**Two-step allylic carbon insertion between ketone carbonyl and α carbons giving α -quaternary α -vinyl ketones**

pp 6724–6727

Jing-Qian He, Daisuke Shibata, Chihaya Ohno, Sentaro Okamoto *

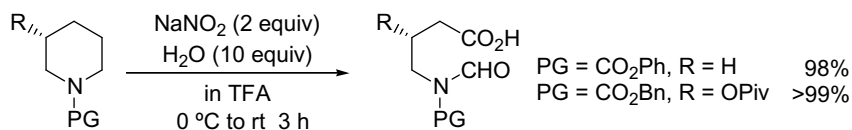


Ketones **1** were converted to α -quaternary α -vinyl ketones **2** by reaction with propargyltitanium reagents, derived from propargyl carbonates **3** and a divalent titanium reagent, followed by rearrangement of the resulting α -allenyl alcohols **4** with NBS.

Oxidative C–C bond cleavage of N-alkoxycarbonylated cyclic amines by sodium nitrite in trifluoroacetic acid


pp 6728–6731

Osamu Onomura *, Atsushi Moriyama, Kazuhiro Fukae, Yutaka Yamamoto, Toshihide Maki, Yoshihiro Matsumura, Yosuke Demizu



OTHER CONTENT**Corrigendum****p 6732**

*Corresponding author

 Supplementary data available via ScienceDirect

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[®]



ELSEVIER

Available online at www.sciencedirect.com ScienceDirect

ISSN 0040-4039