

Vol. 54 • Issue 44 • 30 October 2013 • ISSN 0040-4039

Tetrahedron Letters

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL
PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

Available online at www.sciencedirect.com

ScienceDirect

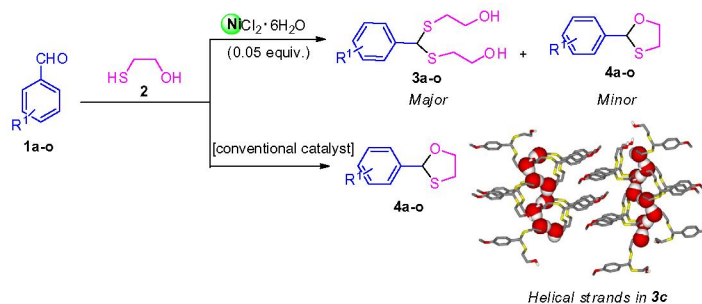
Tetrahedron Letters Vol. 54, Issue 44, 2013

Contents

COMMUNICATIONS

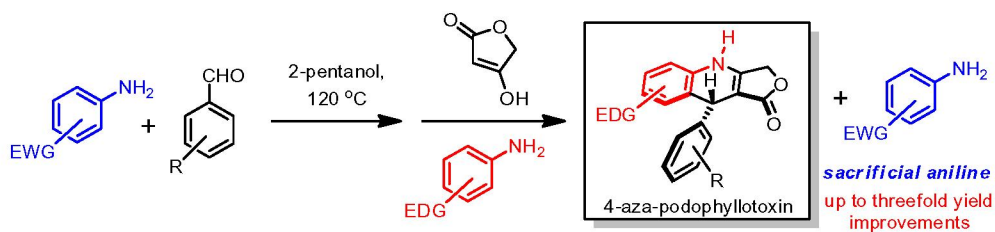
Nickel(II) chloride hexahydrate catalyzed reaction of aromatic aldehydes with 2-mercaptoethanol: formation of supramolecular helical assemblage of the product pp 5839–5844

Rajibul A. Laskar, Naznin A. Begum, Mohammad Hedayetullah Mir, Md. Rumum Rohman, Abu T. Khan*



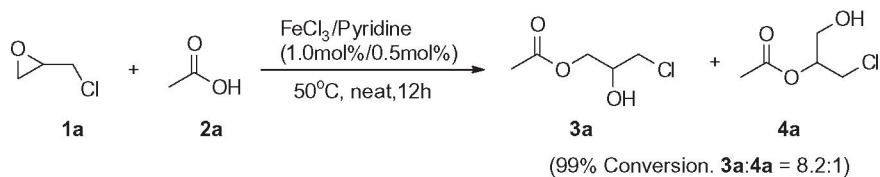
Mechanistic investigation and implications of a sacrificial aniline for the tandem cascade synthesis of 4-aza-podophyllotoxin analogues pp 5845–5848

Nagalakshmi Jeedimalla, Jennifer Johns, Stéphane P. Roche*



FeCl₃/pyridine: dual-activation in opening of epoxide with carboxylic acid under solvent free condition pp 5849–5852

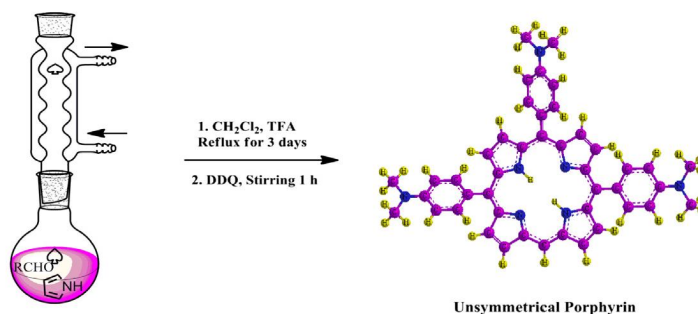
Yichao Zhao, Wen Wang, Jian Li, Feng Wang, Xiufang Zheng, Hongying Yun, Weili Zhao, Xiaochun Dong*



Unexpected one-pot synthesis of A₃-type unsymmetrical porphyrin

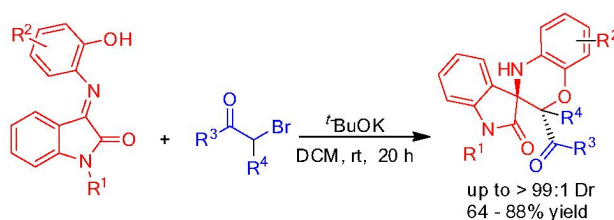
pp 5853–5856

Mian HR Mahmood, Hai-Yang Liu*, Hua-Hua Wang, Yi-Yu Jiang, C.-K. Chang*

**Construction of functionalized spiro 1,4-benzoxazine oxindole derivatives via domino Mannich-alkylation of α -halocarbonyl compounds with imines**

pp 5857–5860

Xiao Huang, Ya-Ru Zhang, Xin-Sheng Li, Dong-Cheng Xu, Jian-Wu Xie*

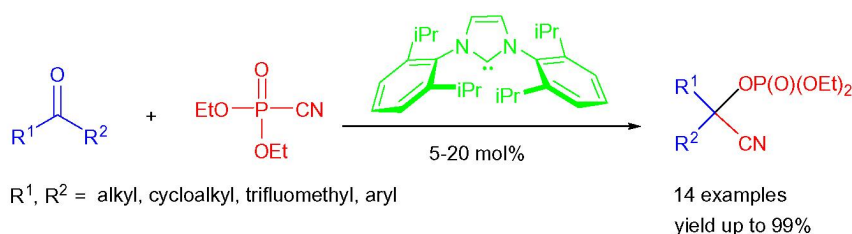


A series of functionalized spiro 1,4-benzoxazine oxindole derivatives were obtained in moderate to good yields via a domino Mannich-alkylation of α -halocarbonyl compounds with imines under mild conditions.

**N-heterocyclic carbenes mediated cyano-phosphorylation of ketones**

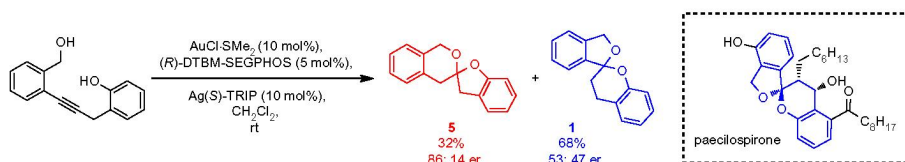
pp 5861–5864

Lin He*, Jing Zhang, Ye-Cheng Fan, Guang-Fen Du*, Jie Zhang, Bin Dai*

**Synthesis of benzannulated spiroacetals using chiral gold–phosphine complexes and chiral anions**

pp 5865–5868

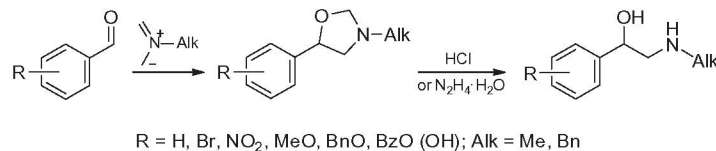
Rachelle Quach, Daniel P. Furkert, Margaret A. Brimble*



A simple two-step synthesis of 2-(alkylamino)-1-arylethanol, including racemic adrenaline, from aromatic aldehydes via 5-aryloxazolidines

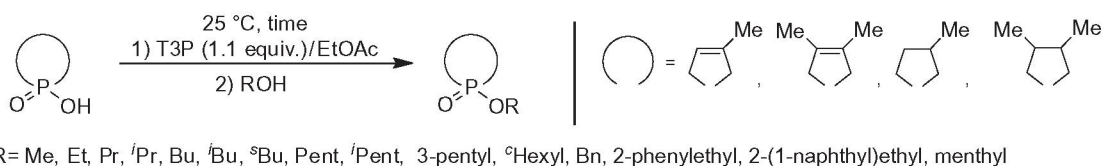
pp 5869–5872

Vladimir S. Moshkin*, Vyacheslav Ya. Sosnovskikh

**Esterification of five-membered cyclic phosphinic acids under mild conditions using propylphosphonic anhydride (T3P®)**

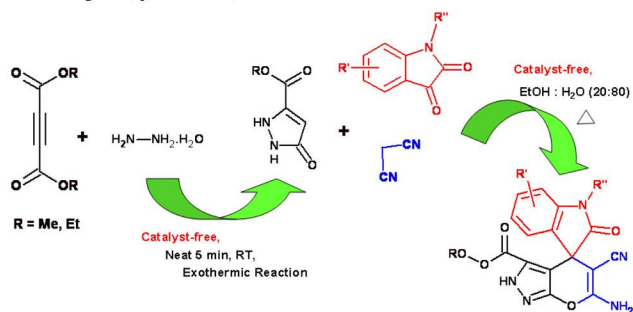
pp 5873–5875

Erzsébet Jablonkai, Mátyás Milen, László Drahos, György Keglevich*

**Green access to novel spiro pyranopyrazole derivatives**

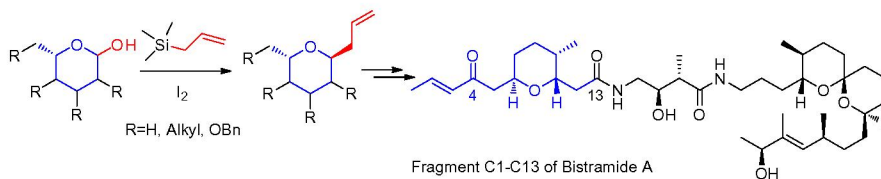
pp 5876–5878

D. M. Pore*, P. B. Patil, D. S. Gaikwad, P. G. Hegade, J. D. Patil, K. A. Undale

**Novel iodine catalyzed diastereoselective synthesis of *trans*-2,6-disubstituted tetrahydro-2*H*-pyrans: synthesis of C1–C13 fragment of bistramide-A**

pp 5879–5882

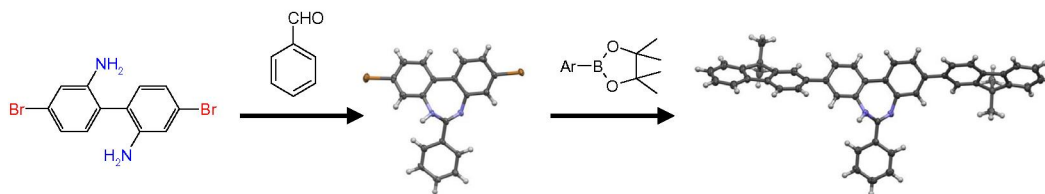
Jhillu Singh Yadav*, Eppa Gyanchander, Anand Kumar Mishra, Peddapuram Adithya, Saibal Das



Facile synthesis and coupling of 3,9-dibromo-6-aryl-5H-dibenzo[*d,f*][1,3]diazepine derivatives

pp 5883–5885

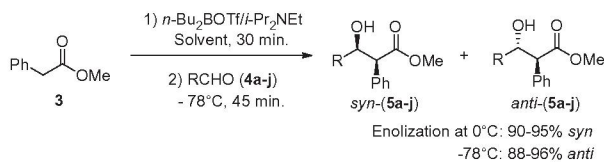
Manisha Tomar, Nigel T. Lucas, Klaus Müllen, Josemon Jacob*



Overriding effect of temperature over reagent and substrate size for boron-mediated aldol reaction of methyl phenylacetate

pp 5886–5888

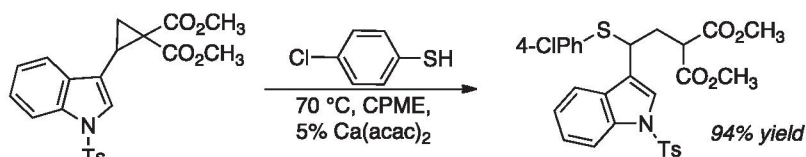
P. Veeraraghavan Ramachandran*, Prem B. Chanda



The homologous conjugate addition of thiols to electron-deficient cyclopropanes catalyzed by a calcium(II) complex

pp 5889–5891

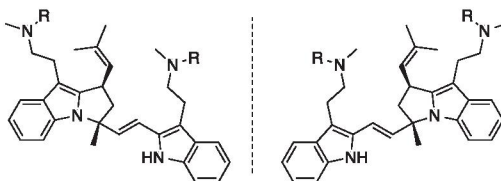
Caroline M. Braun, Alyssa M. Shema, Callie C. Dulin, Kristine A. Nolin*



On the biosynthesis and optical activity of the flinderoles

pp 5892–5894

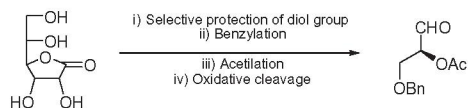
Ravikrishna Vallakati, Jonathan P. Smuts, Daniel W. Armstrong, Jeremy A. May*



Concise synthesis of orthogonally diprotected L-glyceraldehyde

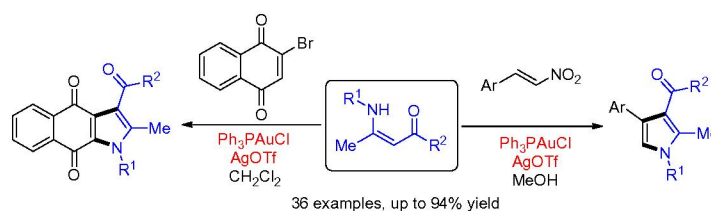
pp 5895–5897

Estefanía Dibello, Margarita Broveto, Gustavo Seoane, Daniela Gamenara*

**Gold-catalyzed cascade C–C and C–N bond formation: synthesis of polysubstituted indolequinones and pyrroles**

pp 5898–5900

Ablimit Abdukader, Qicai Xue, Aijun Lin, Ming Zhang, Yixiang Cheng, Chengjian Zhu*

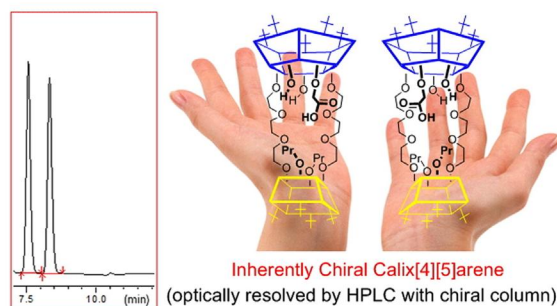


The combination of Ph_3PAuCl and AgOTf was proven to be an efficient catalyst for the cascade C–C and C–N bond formation reactions from enamines and bromoquinones or nitroolefins. This protocol affords a straightforward method for the synthesis of polysubstituted indolequinones and pyrroles in good yields.

**Inherently chiral biscalixarene cone–cone conformers consisting of calix[4]arene and calix[5]arene subunits**

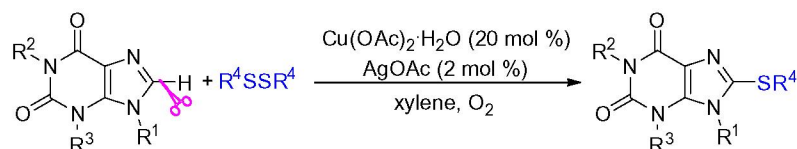
pp 5901–5906

Si-Zhe Li, Ke Yang, Hong-Bing Liu, Yu-Xiang Xia, Rong-Xiu Zhu*, Jun Luo*, Qian Wan*

**Copper-catalyzed direct thiolation of xanthenes and related heterocycles with disulfides**

pp 5907–5910

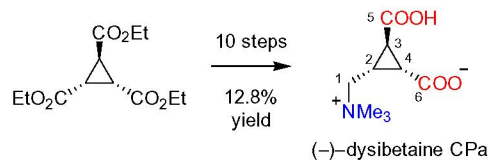
Zuying He, Fang Luo*, Yinglong Li, Gangguo Zhu*



First enantioselective total synthesis of (–)-dysibetaine CPa and absolute configurations of natural product

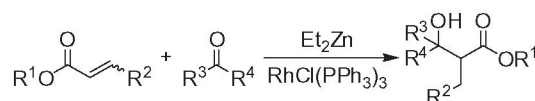
pp 5911–5912

Michihiro Sakai, Yuichi Ishikawa, Satoshi Takamizawa, Masato Oikawa*

**Reductive aldol-type reaction of α,β -unsaturated esters with aldehydes or ketones in the presence of Rh catalyst and Et_2Zn**

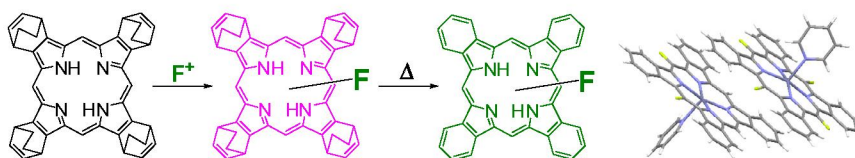
pp 5913–5915

Kazuyuki Sato, Motoyuki Isoda, Yoriko Tokura, Keiko Omura, Atsushi Tarui, Masaaki Omote, Itsumaro Kumadaki, Akira Ando*

**Synthesis of *meso*-fluorotetrabenzoporphyrins**

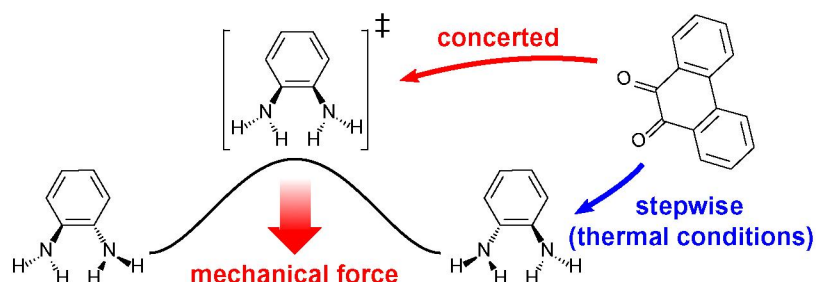
pp 5916–5919

Satoshi Ito*, Noriaki Terada, Komei Seino, Daishi Makihata, Akira Sasaki, Toru Oba

**Reaction mechanism in the mechanochemical synthesis of dibenzophenazine: application of vibronic coupling density analysis**

pp 5920–5923

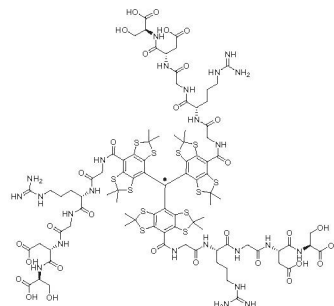
Naoki Haruta, Tohru Sato, Kazuyoshi Tanaka, Michel Baron



RGD-conjugated triarylmethyl radical as probe for electron paramagnetic imaging

pp 5924–5926

Benoît Driesschaert, Philippe Levêque, Bernard Gallez, Jacqueline Marchand-Brynaert*



*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