

Tetrahedron Letters Vol. 50, No. 29, 2009

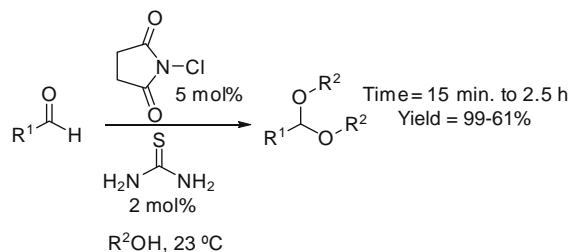
Contents

COMMUNICATIONS

NCS with thiourea as highly efficient catalysts for acetalization of aldehydes

pp 4199–4200

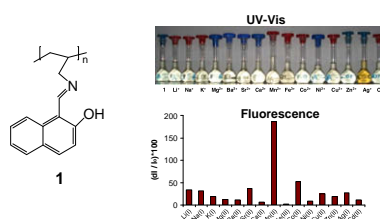
Y. Mei, P. A. Bentley\*, J. Du



A dual detecting polymeric sensor: chromogenic naked eye detection of silver and ratiometric fluorescent detection of manganese

pp 4201–4204

Narinder Singh, Navneet Kaur, Catriona Ni Choitir, John F. Callan\*



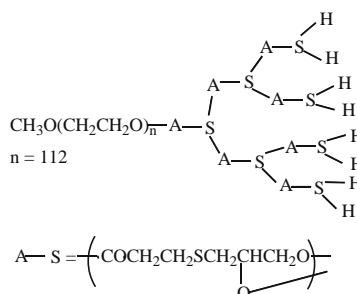
Polymeric sensor **1** shows selectivity for silver and manganese ions from changes in the UV-vis and fluorescence spectra, respectively, in semi-aqueous solution at pH 7.0.



Synthesis of new poly(ethylene glycol)-block-poly(ester sulfide) dendrimers

pp 4205–4207

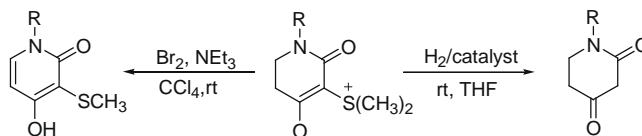
Jonathan J. Fury, Erich F. Altenhofer, Reza Sedaghat-Herati\*



**New cyclic zwitterionic building blocks for the synthesis of piperidine-2,4-dione and pyridine-2-one compounds**

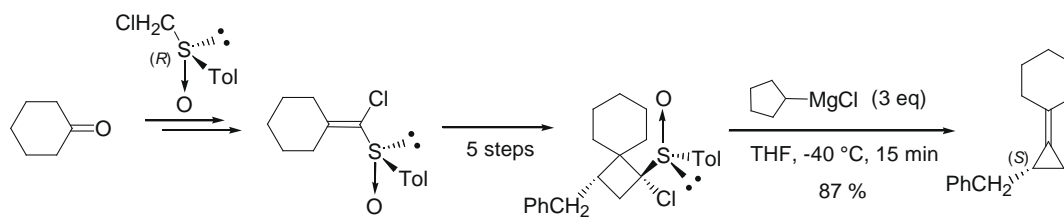
pp 4208–4211

Angel Palillero, Joel L. Terán\*, Dino Gnecco, Jorge R. Juárez, María L. Orea, Alejandro Castro


**A new synthesis, including asymmetric synthesis, of alkylidenecyclopropanes by 1,2-CC insertion of cyclobutylmagnesium carbenoides as the key reaction**

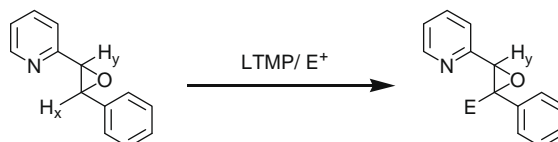
pp 4212–4216

Nobuhito Nakaya, Shimpei Sugiyama, Tsuyoshi Satoh\*


**Pyridine stabilized oxiranyl remote anions**

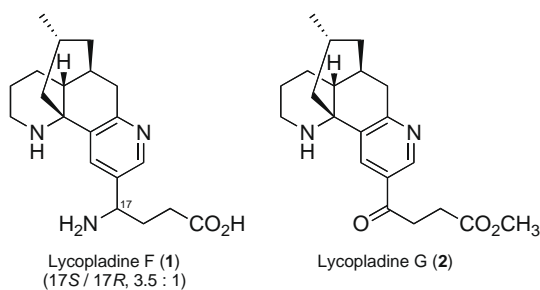
pp 4217–4220

Pattama Saisaha, Chakkrapan Nerungsi, Supitchaya Iamsaard, Tienthong Thongpanchang\*


**Lycopladienes F and G, new C<sub>16</sub>N<sub>2</sub>-type alkaloids with an additional C<sub>4</sub>N unit from *Lycopodium complanatum***

pp 4221–4224

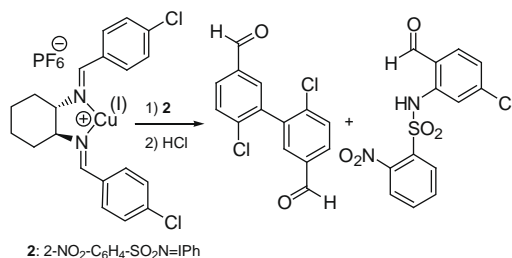
Kan'ichiro Ishiuchi, Takaaki Kubota, Shigeki Hayashi, Toshiro Shibata, Jun'ichi Kobayashi\*



**Aromatic oxidative decompositions of copper Schiff base complexes**

pp 4225–4228

Jean-Christophe Andrez \*

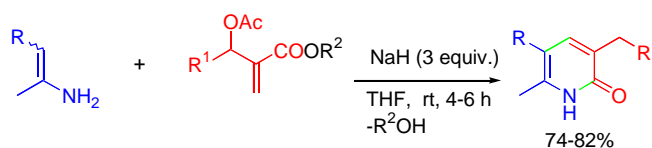


Copper Schiff base complexes were shown to possess a proclivity for aromatic oxidative coupling reactions.

**Simple, facile and one-pot conversion of the Baylis–Hillman acetates into 3,5,6-trisubstituted-2-pyridones**

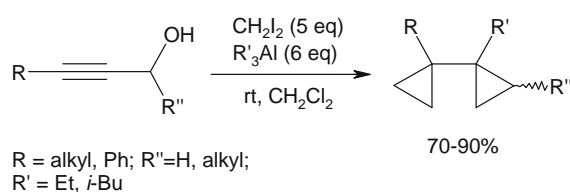
pp 4229–4232

Mettu Ravinder, Partha Sarathi Sadhu, Vaidya Jayathirtha Rao \*

**The synthesis of 1,1'-disubstituted bis-cyclopropanes by the reaction of substituted propargylic alcohols with CH<sub>2</sub>I<sub>2</sub>-R<sub>3</sub>Al**

pp 4233–4235

Ilfir R. Ramazanov \*, Alsu V. Yumagulova, Usein M. Dzhemilev, Oleg M. Nefedov

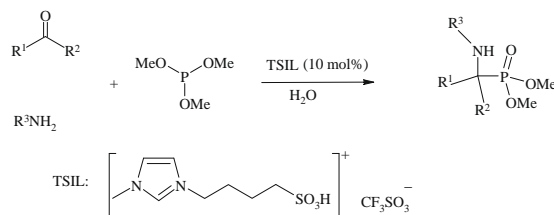


A method for the conversion of 2-alkyn-1-ols into 1,1'-disubstituted bis-cyclopropanes is described.

**A sulfonic acid functionalized ionic liquid as a homogeneous and recyclable catalyst for the one-pot synthesis of  $\alpha$ -aminophosphonates**

pp 4236–4238

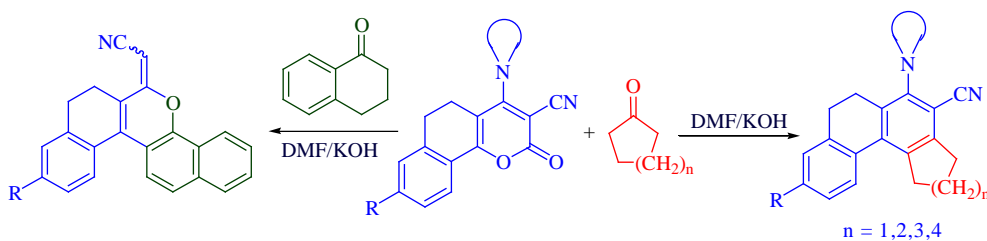
Jafar Akbari, Akbar Heydari \*

A sulfonic acid functionalized ionic liquid is used as a Brønsted acid catalyst for the one-pot, three-component synthesis of  $\alpha$ -aminophosphonates from aldehydes and ketones at room temperature in water. This homogeneous catalytic procedure is simple and efficient and the catalyst can be reused at least six times without any noticeable decrease in catalytic activity.

## An efficient non-catalytic, regioselective approach to the synthesis of angularly fused polycyclic systems

pp 4239–4242

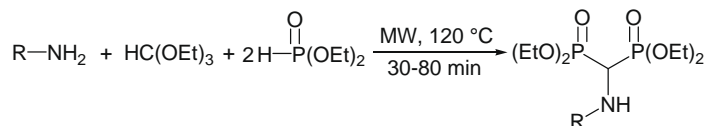
Ramendra Pratap \*, Vishnu Ji Ram \*



## A microwave-assisted solvent- and catalyst-free synthesis of aminomethylene bisphosphonates

pp 4243–4245

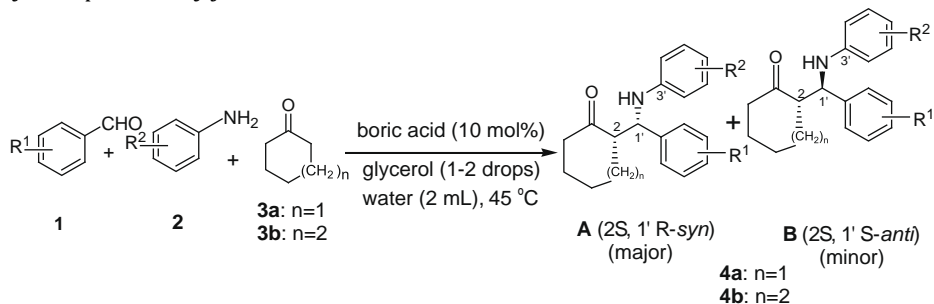
Babak Kaboudin \*, Soheil Alipour



## Highly efficient one-pot, three-component Mannich reaction catalysed by boric acid and glycerol in water with major 'syn' diastereoselectivity

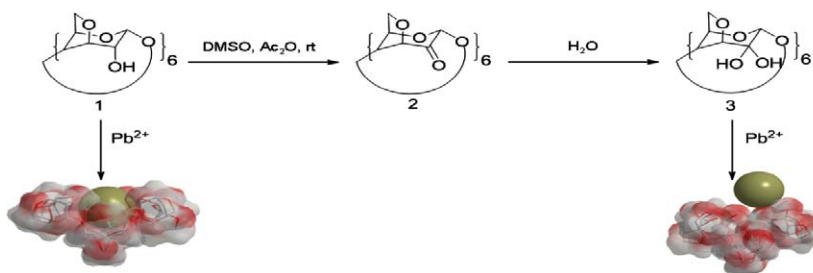
pp 4246–4250

Chhanda Mukhopadhyay \*, Arup Datta, Ray J. Butcher

Synthesis of hexakis(2-keto-3,6-anhydro)cyclomaltohexaose: structural studies and Pb<sup>2+</sup> complexation evaluation

pp 4251–4253

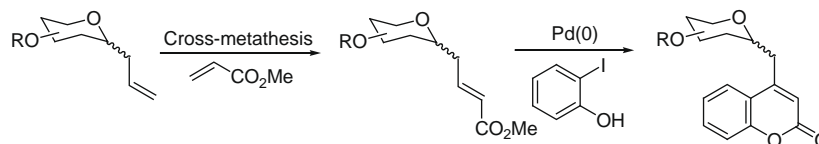
Thomas Berthelot \*, Julia Chamot-Rooke, Cécile Baudin \*



**Catalytic synthesis of novel 4-C-glycosyl coumarins using a domino Heck reaction/lactonization process**

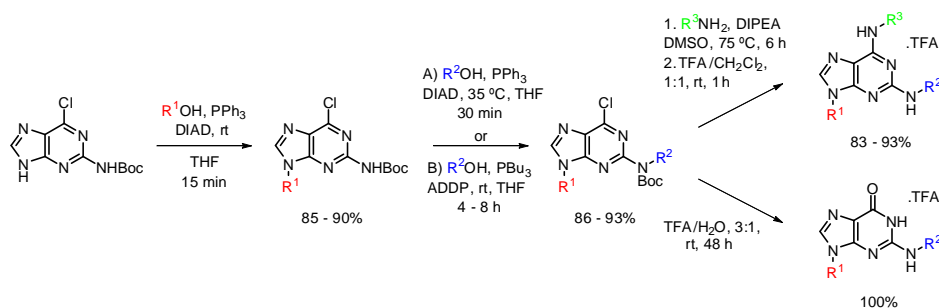
pp 4254–4257

Denis Giguère, Ramesh Patnam, Juan M. Juarez-Ruiz, Mathieu Neault, René Roy\*


**Facile and efficient access to 2,6,9-tri-substituted purines through sequential N9, N2 Mitsunobu reactions**

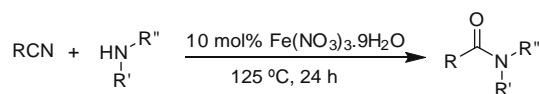
pp 4258–4261

Steven Fletcher\*, Vijay M. Shahani, Patrick T. Gunning\*


**An iron-catalysed synthesis of amides from nitriles and amines**

pp 4262–4264

C. Liana Allen, Alexei A. Lapkin, Jonathan M. J. Williams\*

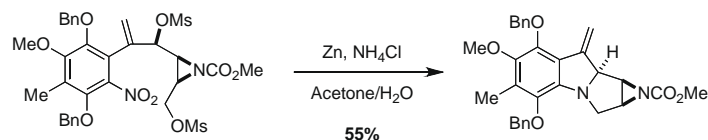


The cheap, commercially available iron complex,  $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$ , has been used to catalyse the formation of amides by the addition of amines to nitriles.

**Synthetic studies toward the mitomycins: construction of the tetracyclic core via a reductive aminocyclization reaction**

pp 4265–4267

Daniel A. Gubler, Robert M. Williams\*

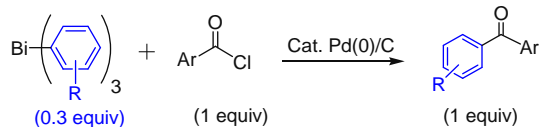


The tetracyclic skeleton of the mitomycins has been constructed in one step from an acyclic precursor via a reductive amino-cyclization reaction. Details and the utility of this reaction are discussed herein.

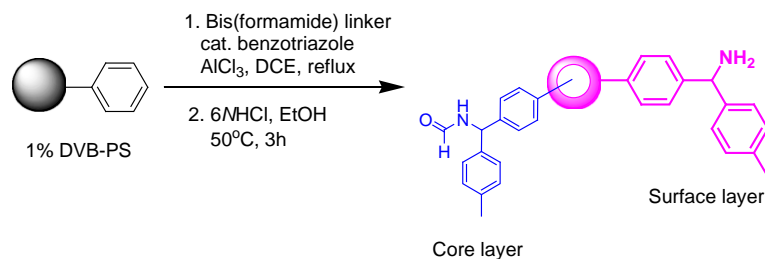


**Pd(0)/C-catalyzed cross-couplings of acyl chlorides with triarylbismuths as atom-efficient sub-stoichiometric multi-coupling reagents**

pp 4268–4271

Maddali L. N. Rao <sup>\*</sup>, Deepak N. Jadhav, Varadhachari Venkatesh**Preparation of a core-shell type MBHA resin and its application for solid-phase peptide synthesis**

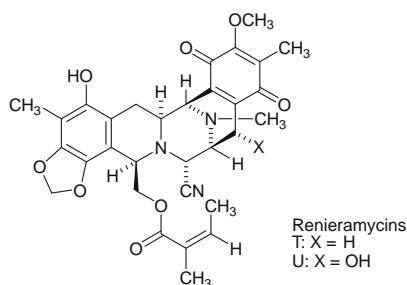
pp 4272–4275

Jeong-Hyun Choi, Tae-Kyung Lee, Jang-Woong Byun, Yoon-Sik Lee <sup>\*</sup>

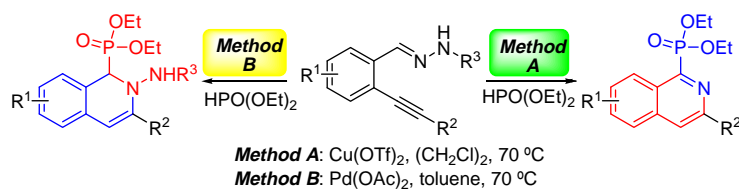
We prepared the core-shell-type MBHA resin by benzotriazole-catalyzed amidoalkylation and partial hydrolysis. The core-shell structure was confirmed by the two-photon microscopy.

**Chemistry of renieramycins. Part 7: Renieramycins T and U, novel renieramycin–ecteinascidin hybrid marine natural products from Thai sponge *Xestospongia* sp.**

pp 4276–4278

Naomi Daikuhara, Yumiko Tada, Sachiyo Yamaki, Kornvika Charupant, Surattana Amnuoypol, Khanit Suwanborirux, Naoki Saito <sup>\*</sup>**Lewis acid-catalyzed reactions of *N*-(2-alkynylbenzylidene)hydrazides with diethyl phosphite**

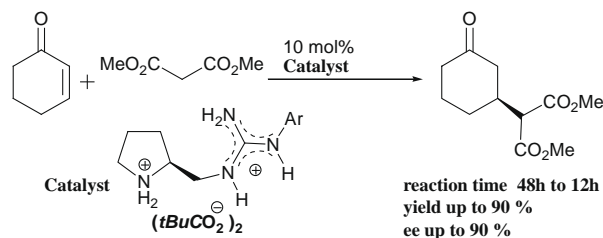
pp 4279–4282

Xingxin Yu, Qiuping Ding, Zhiyuan Chen, Jie Wu <sup>\*</sup>

**Novel guanidinyl pyrrolidine salt-based bifunctional organocatalysts: application in asymmetric conjugate addition of malonates to enones**

pp 4283–4285

Emmanuel Riguet \*

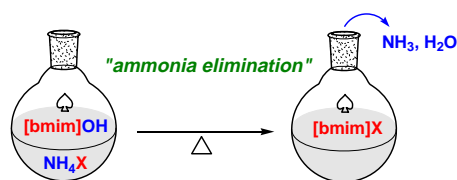


Novel guanidinyl pyrrolidine salts are useful bifunctional organocatalysts for the asymmetric addition of malonates to enones. These organocatalysts are effective under a wide range of reaction conditions and afford products in high yield and enantioselectivity.

**Convenient synthesis of various ionic liquids from onium hydroxides and ammonium salts**

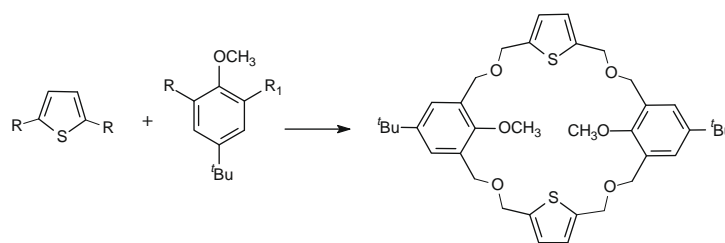
pp 4286–4288

Yanqing Peng \*, Guiyun Li, Jianguo Li, Shaojun Yu

**Synthesis and properties of a mixed thiophene-octahomotetraoxacalixarene**

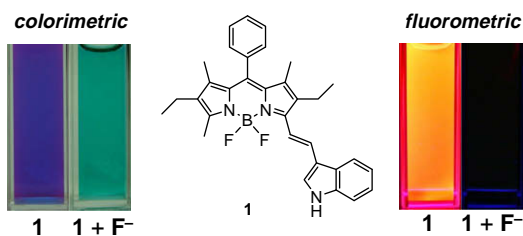
pp 4289–4292

Hassan Al-Saraierh, Louise N. Dawe, Paris E. Georghiou \*

**A BODIPY-indole conjugate as a colorimetric and fluorometric probe for selective fluoride anion detection**


pp 4293–4296

Yasuhiro Shiraiishi \*, Hajime Maehara, Takahiro Sugii, Dongping Wang, Takayuki Hirai



**OTHER CONTENTS****Corrigendum****p 4297**

\*Corresponding author

 Supplementary data available via ScienceDirect**COVER**

An asymmetric synthesis of optically active alkylidenecyclopropanes is achieved from ketones with (*R*)-chloromethyl *p*-tolyl sulfoxide and *tert*-butyl carboxylates. 1,2-CC insertion reaction of cyclobutylmagnesium carbenoid intermediate, generated from  $\alpha$ -chlorocyclobutyl *p*-tolyl sulfoxide with cyclopentylmagnesium chloride, is the key of this procedure.

*Tetrahedron Letters* **2009**, 50, 4212–4216.

© 2009 Nobuhito Nakaya. Published by Elsevier Ltd.

---

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](http://www.sciencedirect.com) ScienceDirect

ISSN 0040-4039