

**Tetrahedron Letters Vol. 50, No. 39, 2009**

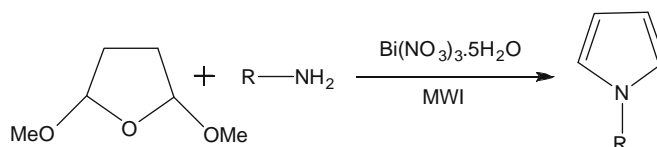
**Contents**

**COMMUNICATIONS**

**Facile synthesis of N-substituted pyrroles via microwave-induced bismuth nitrate-catalyzed reaction**

pp 5445–5448

Sonya Rivera, Debasish Bandyopadhyay, Bimal K. Banik \*



**Asymmetric synthesis of the core of AMPTD, the key amino acid of microsclerodermins F-I**

pp 5449–5451

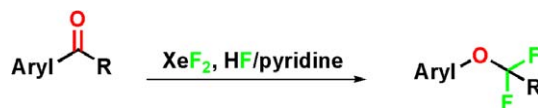
Cameron M. Burnett, Robert M. Williams \*



**Synthesis and conformational analysis of  $\alpha,\alpha$ -difluoroalkyl heteroaryl ethers**

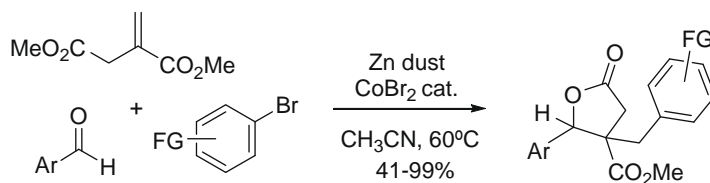
pp 5452–5455

Daniel B. Horne \*, Michael D. Bartberger \*, Matthew R. Kaller, Holger Monenschein, Wenge Zhong, Stephen A. Hitchcock

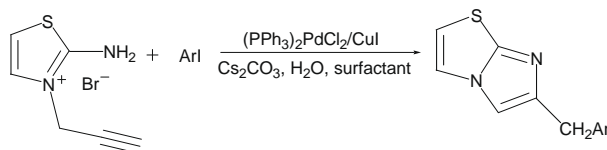


**Three-component synthesis of functionalized five-membered ring lactones under Barbier-like conditions**

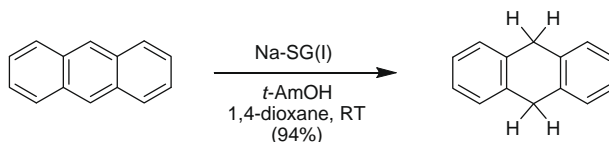
pp 5456–5458

Camille Le Floch, Carine Bughin, Erwan Le Gall <sup>\*</sup>, Eric Léonel, Thierry Martens**Synthesis of 6-substituted imidazo[2,1-b]thiazoles via Pd/Cu-mediated Sonogashira coupling in water**

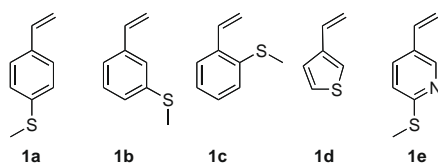
pp 5459–5462

Taghi A. Kamali <sup>\*</sup>, Mohammad Bakherad, Mahmoud Nasrollahzadeh, Shiva Farhangi, Davood Habibi**Ammonia-free Birch reductions with sodium stabilized in silica gel, Na-SG(I)**

pp 5463–5466

Michael J. Costanzo <sup>\*</sup>, Mitul N. Patel, Kathryn A. Petersen, Paul F. Vogt <sup>\*</sup>**Synthesis of sulfur-containing aryl and heteroaryl vinyls via Suzuki–Miyaura cross-coupling for the preparation of SERS-active polymers**

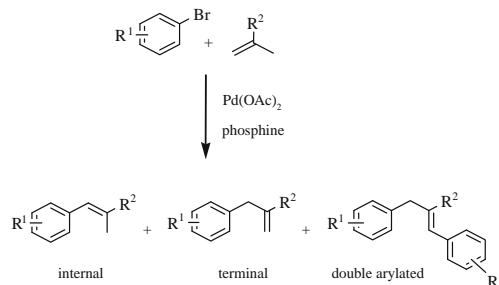
pp 5467–5469

Rolando Perez-Pineiro, Sheng Dai, Ramon Alvarez-Puebla, James Wigginton, Baker Jawabrah Al-Hourani, Hicham Fenniri <sup>\*</sup>

**Selective arylation of 1,1-disubstituted olefins using a biphenyl-based phosphine in Heck coupling reactions**

pp 5470–5473

Shirin Nadri, Mohammad Joshaghani\*, Ezzat Rafiee

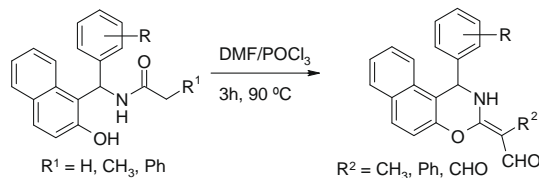


2-Diphenylphosphino-2'-methylbiphenyl is an effective ligand for palladium-catalyzed terminal arylation of 1,1-disubstituted olefins with aryl bromides.

**Synthesis of highly functionalized oxazines by Vilsmeier cyclization of amidoalkyl naphthols**

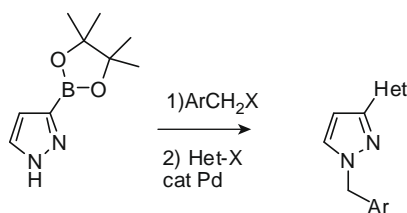
pp 5474–5478

M. Damodiran, N. Panneer Selvam, Paramasivan T. Perumal\*

**A convenient and rapid approach for the synthesis of 1-benzyl-3-heterocyclic pyrazoles**

pp 5479–5481

Michael P. Curtis, Matthew F. Sammons, David W. Piotrowski\*

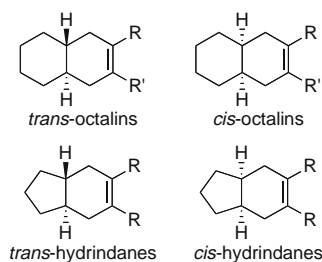


A variety of 1-benzyl-3-heterocyclic pyrazoles were rapidly assembled by a two-step N-benylation/Suzuki coupling sequence. A one-pot variation of this sequence is demonstrated.

**Syntheses of isomerically pure reference octalins and hydrindanes**

pp 5482–5484

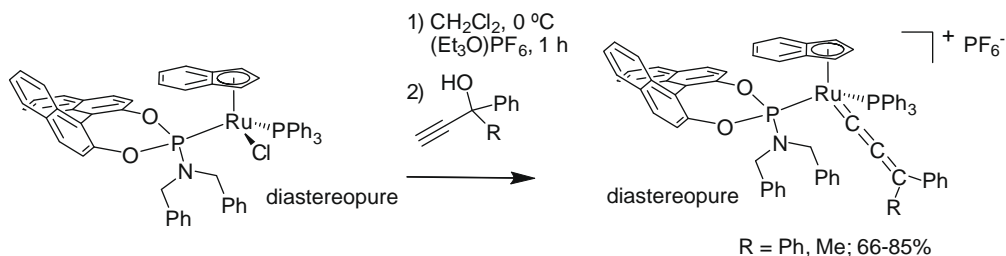
Jun Hee Lee, Woo Han Kim, Samuel J. Danishefsky\*



**New chiral phosphoramidite allenylidene complexes of ruthenium obtained with chirality transfer**

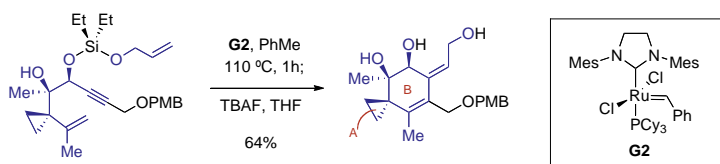
pp 5485–5488

Stephen Costin, Nigam P. Rath, Eike B. Bauer \*

**Observations in the synthesis of the core of the antitumor illudins via an enyne ring closing metathesis cascade**

pp 5489–5492

Mohammad Movassaghi \*, Grazia Piizzi, Dustin S. Siegel, Giovanni Piersanti

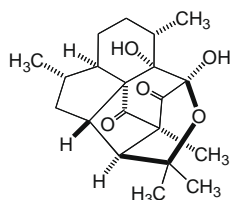


Observations related to the synthesis of the functional spirocyclic AB-ring system found in a variety of illudins via a key enyne ring closing metathesis cascade are described.

**Elisapterosin F: a polycyclic gorgonian-derived diterpene with a facially amphiphilic structure**

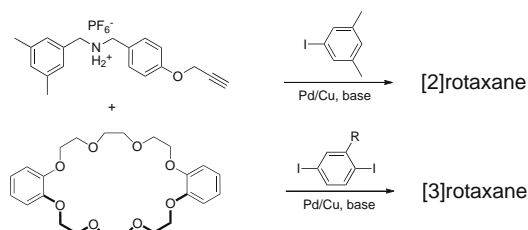
pp 5493–5496

Ileana I. Rodríguez, Abimael D. Rodríguez \*

A recent chemical study on the nonpolar fraction of the methanolic- $\text{CHCl}_3$  extract of the gorgonian coral *Pseudopterogorgia elisabethae* has yielded a new diterpene of the elisapterane series. The complex structure, including relative stereochemistry, was established through spectroscopic analysis.**Synthesis of [2]- and [3]rotaxanes through Sonogashira coupling**

pp 5497–5500

Jean-Benoît Giguère, Dominic Thibeault, Francis Cronier, Jean-Sébastien Marois, Michèle Auger, Jean-François Morin \*



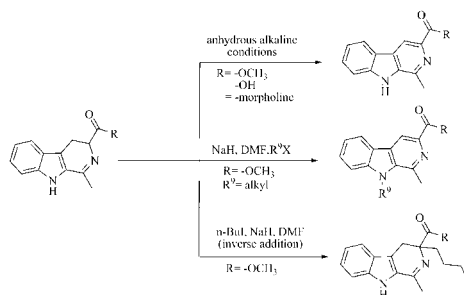
The synthesis of new [2]- and [3]rotaxanes through Sonogashira coupling has been accomplished in the aim to build oligo(phenyleneethynylene) (OPE) encircled by crown ethers. Optimization of the Sonogashira coupling for the formation of the [2]rotaxane (capping reaction) is presented and the best method has been applied for the synthesis of the longer [3]rotaxane.



**Aromatization and chemoselective alkylation of 1-methyl-3,4-dihydro-β-carboline-3-carboxylic acid and its derivatives**

pp 5501–5504

Keyur G. Brahmabhatt, Nafees Ahmed, Inder P. Singh, Kamlesh K. Bhutani \*



**Synthesis of biaryl pentacyclic quinolonoquinoxalino-oxazocines in aqueous medium using Amberlite IRA 402(OH)**

pp 5505–5509

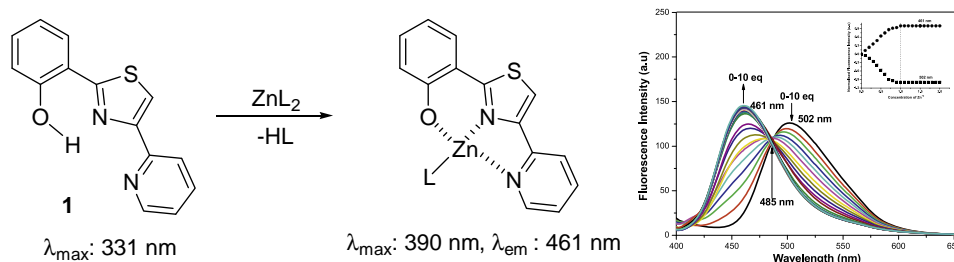
Priyankar Paira, Rupankar Paira, Abhijit Hazra, Krishnendu B. Sahu, Subhendu Naskar, Pritam Saha, Shyamal Mondal, Arindam Maity, Sukdeb Banerjee, Nirup B. Mondal \*



**Thiazole-based chemosensor: synthesis and ratiometric fluorescence sensing of zinc**

pp 5510–5515

Aasif Helal, Hong-Seok Kim \*



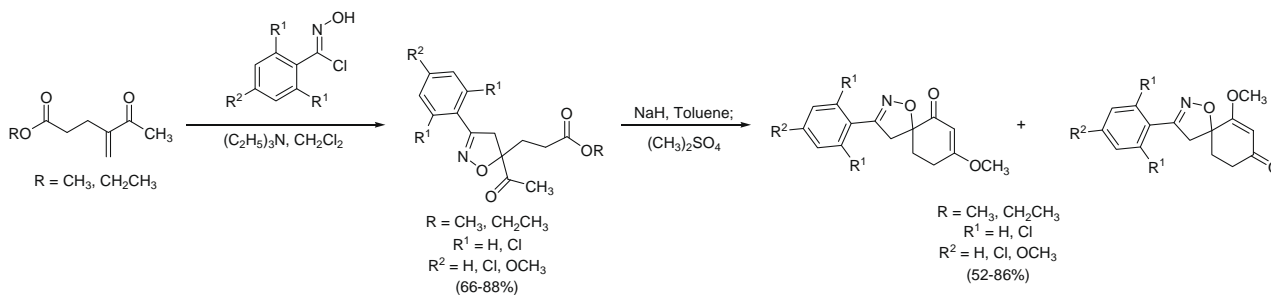
A new ratiometric and selective fluorescent chemosensor (1), based on thiazole for quantification of zinc ions in aqueous ethanol, was synthesized and investigated. The mechanism of fluorescence was based on the cation-induced inhibition of excited-state intramolecular proton transfer (ESIPT).



**Construction of novel spiroisoxazolines via intramolecular cyclization/methylation**

pp 5516–5519

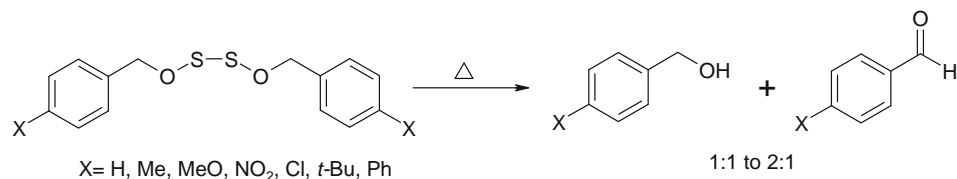
Erick D. Ellis, Jianping Xu, Edward J. Valente, Ashton T. Hammell \* II II



**Thermolytic decomposition of benzylic dialkoxy disulfides**

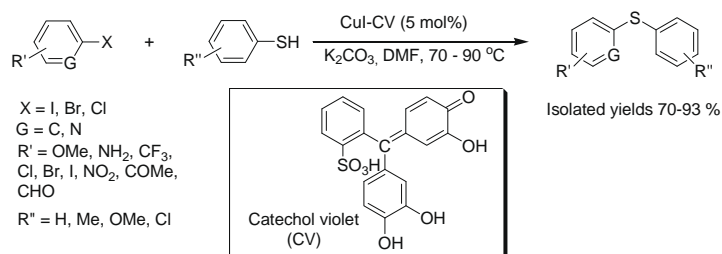
pp 5520–5522

DiAndra M. Rudzinski, Mary P. McCourt, Ronny Priefer \*

**Catechol violet as new, efficient, and versatile ligand for Cu(I)-catalyzed C–S coupling reactions**

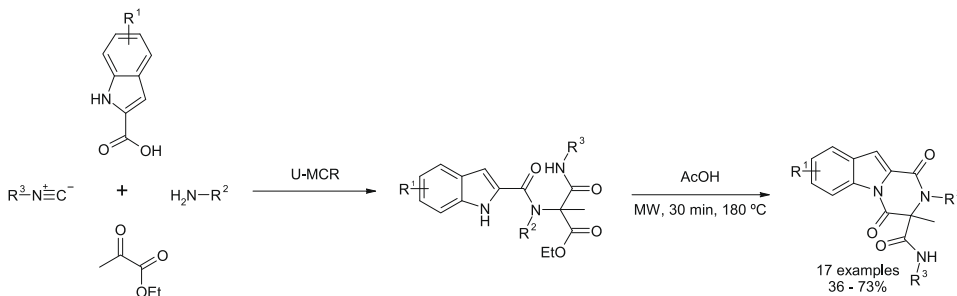
pp 5523–5528

Basudeb Basu \*, Bablee Mandal, Sajal Das, Sekhar Kundu

**Streamlined access to 2,3-dihydropyrazino[1,2-a]indole-1,4-diones via Ugi reaction followed by microwave-assisted cyclization**

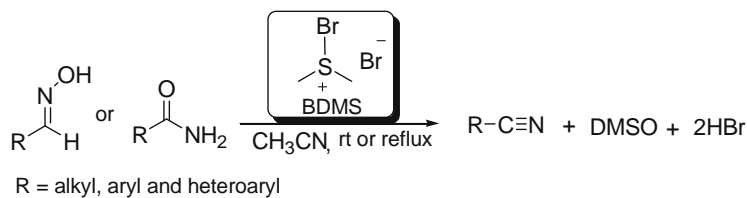
pp 5529–5531

Sergey Tsirulnikov, Mikhail Nikulnikov, Volodymyr Kysil, Alexandre Ivachtchenko, Mikhail Krasavin \*

**Bromodimethylsulfonium bromide (BDMS): a useful reagent for conversion of aldoximes and primary amides to nitriles**

pp 5532–5535

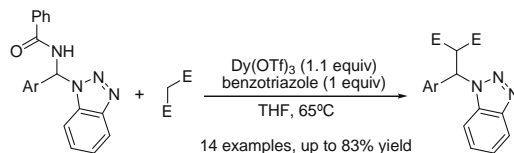
Lal Dhar S. Yadav \*, Vishnu P. Srivastava, Rajesh Patel



**Dy(OTf)<sub>3</sub>-mediated selective substitution of *N*-( $\alpha$ -benzotriazolyl-alkyl)amides with active methylene compounds for synthesis of benzotriazole derivatives**

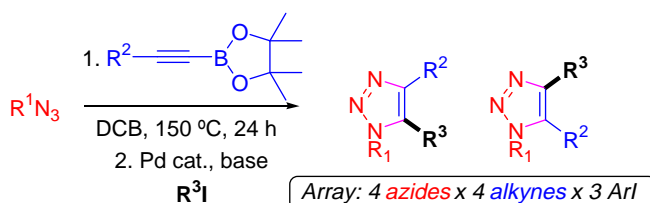
pp 5536–5538

Weixun Li, Yang Ye, Jin Zhang, Renhua Fan\*

**A direct route to triazole boronic esters and their application in the synthesis of small molecule arrays**

pp 5539–5541

Jianhui Huang, Simon J. F. Macdonald, Anthony W. J. Cooper, Gail Fisher, Joseph P. A. Harrity\*



\*Corresponding author

Supplementary data available via ScienceDirect

**COVER**

Observations concerning the synthesis of the core spirocyclic AB-ring system of the illudins using an enyne ring closing metathesis (EYRCM) cascade are discussed. This synthetic strategy provides ready access to the synthesis of various functionalized precursors to the core warheads of the illudin antitumor natural products.

*Tetrahedron Letters* **2009**, 50, 5489–5492.

© 2009 Mohammad Movassaghi. 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)

ISSN 0040-4039