



## Tetrahedron Vol. 69, Issue 26, 2013

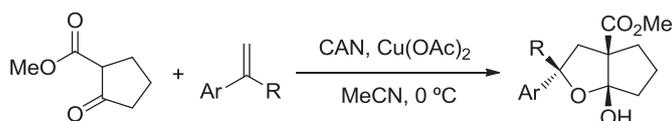
## Contents

## ARTICLES

**Regio- and diastereoselective synthesis of functionalized hydroxyhexahydrocyclopenta[*b*]furancarboxylates by oxidative radical cyclization of cyclic  $\beta$ -keto esters with alkenes**

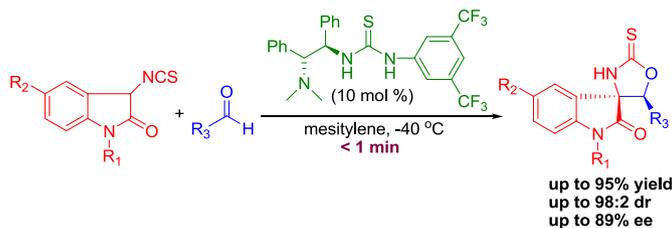
pp 5273–5280

Masahiro Yoshida\*, Hironobu Takai, Shota Yodokawa, Koza Shishido


**Highly efficient synthesis of spiro[oxazolidine-2-thione-oxindoles] with 3-isothiocyanato oxindoles and aldehydes via an organocatalytic cascade aldol-cyclization reaction**

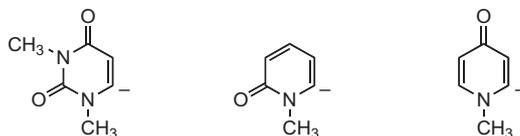
pp 5281–5286

Wen-Bing Chen, Wen-Yong Han, Yan-Yan Han, Xiao-Mei Zhang, Wei-Cheng Yuan\*

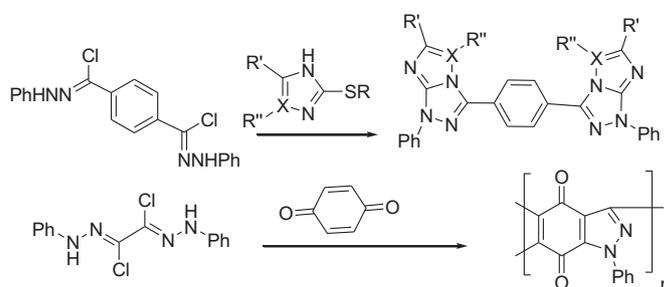


**Stabilities of uracil and pyridone-based carbanions: a systematic study in the gas phase and solution and implications for the mechanism of orotidine-5'-monophosphate decarboxylase** pp 5287–5292

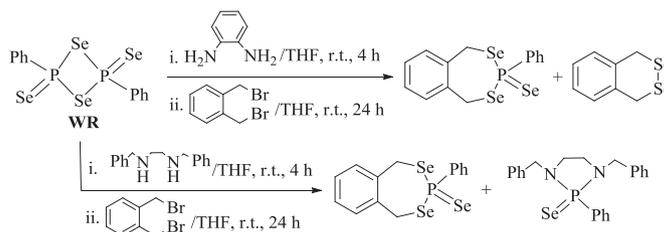
Nicholas A. Senger, Carly E. Bliss, James R. Keeffe, Scott Gronert\*, Weiming Wu\*


**Synthesis of novel bis-thiadiazoles, bis-triazoles and polypyrazole derivatives based on hydrazonoyl halides** pp 5293–5298

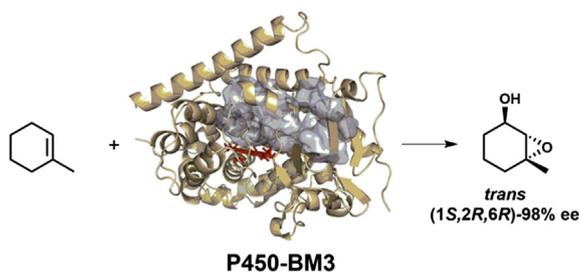
Abdelwahed R. Sayed


**Novel organo phosphorus–selenium heteroatom compounds from selenation of diamines** pp 5299–5305

Guoxiong Hua, Rebecca A.M. Randall, Alexandra M.Z. Slawin, J. Derek Woollins\*


**Stereo- and regioselectivity in the P450-catalyzed oxidative tandem difunctionalization of 1-methylcyclohexene** pp 5306–5311

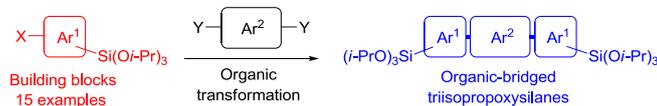
Gheorghe-Doru Roiban, Rubén Agudo, Manfred T. Reetz\*



**A new synthetic approach for functional triisopropoxyorganosilanes using molecular building blocks**

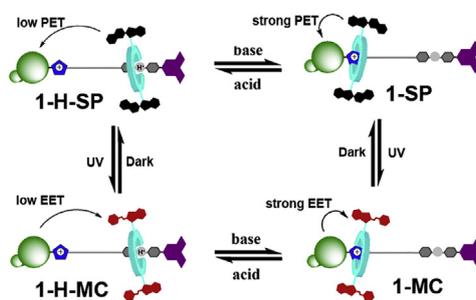
pp 5312–5318

Yoshifumi Maegawa\*, Minoru Waki, Akinari Umemoto, Toyoshi Shimada, Shinji Inagaki

**A bis-spiropyran-containing multi-state [2]rotaxane with fluorescence output**

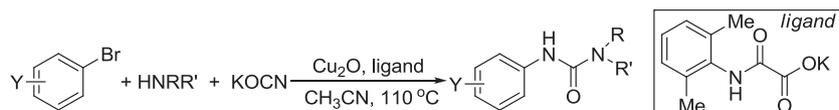
pp 5319–5325

Wei Zhou, Hui Zhang, Hong Li, Yu Zhang, Qiao-Chun Wang, Da-Hui Qu\*

**Assembly of *N,N*-disubstituted-*N'*-arylureas via a copper-catalyzed one-pot three-component reaction of aryl bromides, potassium cyanate, and secondary amines**

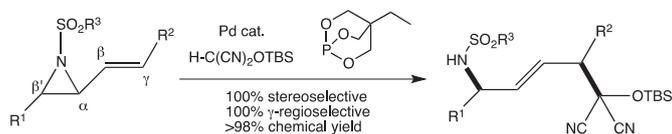
pp 5326–5330

Hongfei Yin, Bing Chen, Xiaojing Zhang\*, Xinye Yang, Yihua Zhang, Yongwen Jiang, Dawei Ma\*

**Palladium-catalyzed highly regio- and stereoselective carbon–carbon bond formation reaction of  $\gamma$ -substituted vinylaziridines with a silylated masked acyl cyanide reagent**

pp 5331–5341

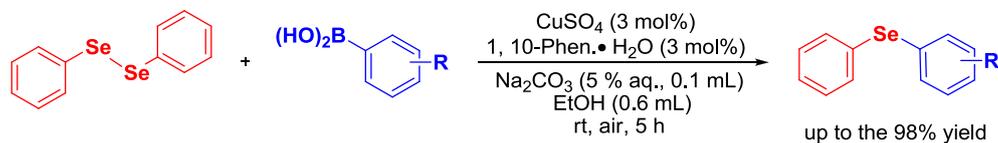
Tomoyuki Kawamura, Nanae Matsuo, Daisuke Yamauchi, Yoo Tanabe, Hisao Nemoto\*



**Copper-catalyzed C–Se coupling of diphenyl diselenide with arylboronic acids at room temperature**

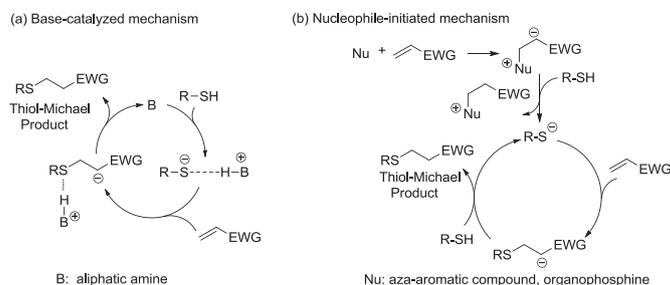
pp 5342–5347

Bo Zheng, Ying Gong, Hua-Jian Xu\*

**Mechanistic insights into N- or P-centered nucleophile promoted thiol–vinylsulfone Michael addition**

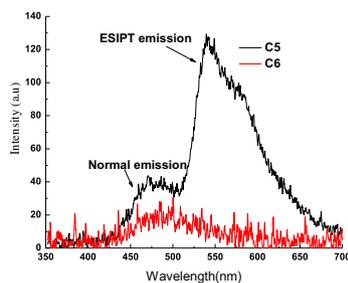
pp 5348–5354

Chen Wang, Chenze Qi\*

**New two-photon absorption organic chromophores containing imino and hydroxyl groups: synthesis, ESIPT and chemosensors**

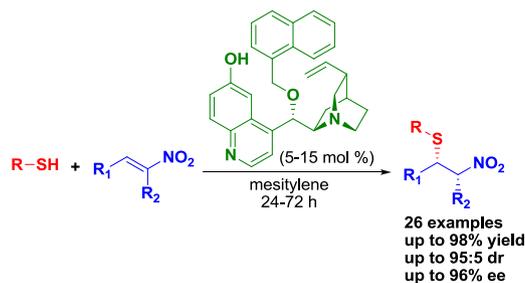
pp 5355–5366

Fang Gao\*, Xinchao Wang, Hongru Li\*, Xiaojuan Ye

**Organocatalytic diastereo- and enantioselective sulfa-Michael addition to  $\alpha,\beta$ -disubstituted nitroalkenes**

pp 5367–5373

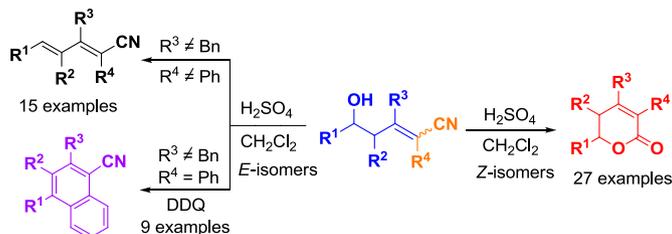
Qing-Lan Pei, Wen-Yong Han, Zhi-Jun Wu, Xiao-Mei Zhang, Wei-Cheng Yuan\*



### 5-Hydroxypent-2-enitriles as precursors toward dihydropyranones, dienenitriles and functionalized naphthalenes

Xinying Zhang\*, Xuefei Jia, Nan Liu, Xiaojie Guo, Yunping Song, Xuesen Fan\*

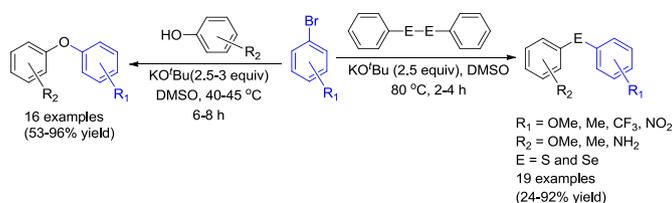
pp 5374–5382



### Potassium *tert*-butoxide-mediated synthesis of unsymmetrical diaryl ethers, sulfides and selenides from aryl bromides

Amit Kumar, Bhagat Singh Bhakuni, Ch. Durga Prasad, Shailesh Kumar, Sangit Kumar\*

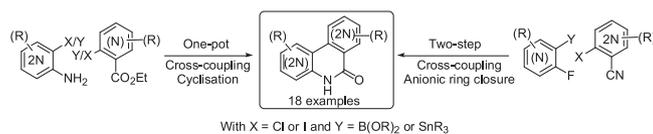
pp 5383–5392



### Synthesis of substituted diazino[*c*]quinolin-5(6*H*)-ones, diazino[*c*]isoquinolin-6(5*H*)-ones, diazino[*c*]naphthyridin-6(5*H*)-ones and diazino[*c*]naphthyridin-5(6*H*)-ones

Nathalie Fresneau, Thomas Cailly, Frédéric Fabis\*, Jean-Philippe Bouillon\*

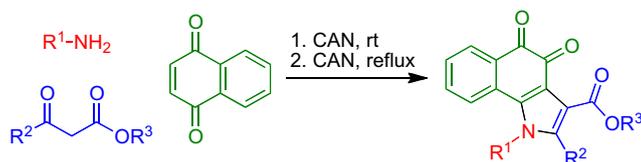
pp 5393–5400



### A new CAN-catalyzed domino process related to the Nenitzescu reaction: very concise access to fused *ortho*-indolequinones from simple precursors

Padmakar A. Suryavanshi, Vellaisamy Sridharan, J. Carlos Menéndez\*

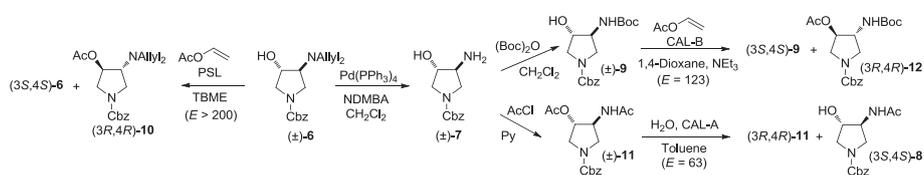
pp 5401–5406



**Chemoenzymatic synthesis of orthogonally protected (3*R*,4*R*)- and (3*S*,4*S*)-*trans*-3-amino-4-hydroxypyrrolidines**

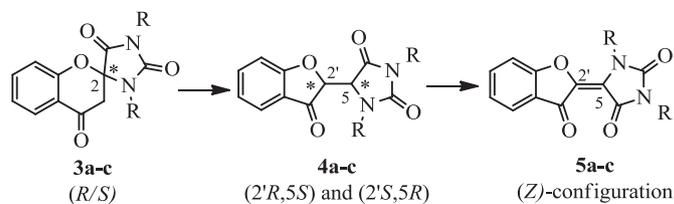
pp 5407–5412

Jesús A. Rodríguez-Rodríguez, F. Javier Quijada, Rosario Brieva, Francisca Rebolledo\*, Vicente Gotor\*

**Diastereoselective synthesis of benzofuran-3(2*H*)-one-hydantoin dyads**

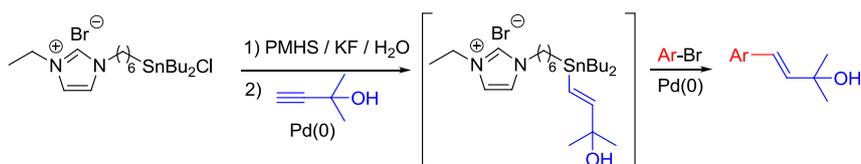
pp 5413–5420

Oualid Talhi, José A. Fernandes, Diana C.G.A. Pinto, Filipe A. Almeida Paz, Artur S.M. Silva\*

**Solvent free hydrostannation and Stille reactions using ionic liquid supported organotin reagents**

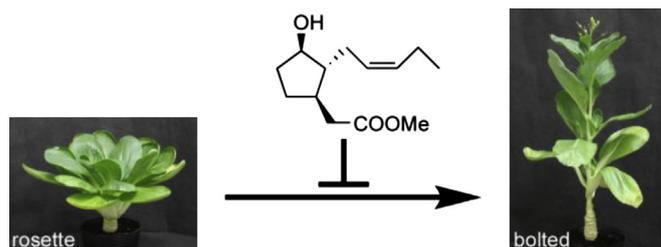
pp 5421–5425

Djibril Faye, Mykhailo Vybornyi, Fabien Boeda, Stéphanie Legoupy\*

**Methyl 3-*iso*-cucurbate, a potential bolting inhibitor to *Brassica rapa***

pp 5426–5430

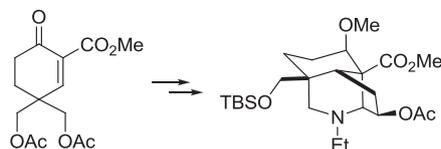
Noboru Takada\*, Eriko Wakita, Ema Yamazaki, Masaru Hashimoto, Yasunori Koda



**PIDA-promoted intramolecular transannular aziridination to synthesize bridged azatricyclic amines related to methyllycaconitine**

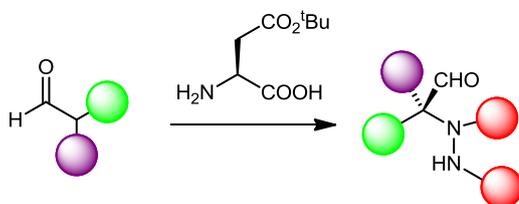
pp 5431–5437

Zhi-Gang Liu, Hang Cheng, Meng-Jia Ge, Liang Xu\*, Feng-Peng Wang

 **$\beta$ -tert-Butyl aspartate as an organocatalyst for the asymmetric  $\alpha$ -amination of  $\alpha,\alpha$ -disubstituted aldehydes**

pp 5438–5443

Alexis Theodorou, Giorgos N. Papadopoulos, Christoforos G. Kokotos\*

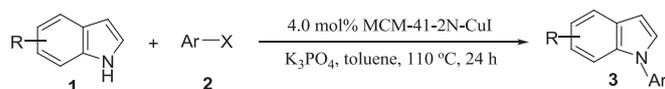


up to 98% yield, up to 96% ee

**MCM-41-immobilized bidentate nitrogen copper(I) complex: a highly efficient and recyclable catalyst for Buchwald N-arylation of indoles**

pp 5444–5450

Ruian Xiao, Hong Zhao\*, Mingzhong Cai\*

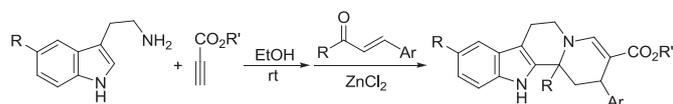


An environmentally friendly, efficient, and practical method for the synthesis of *N*-arylindoles has been developed by an MCM-41-immobilized bidentate nitrogen copper complex-catalyzed *N*-arylation reaction of indoles with aryl halides under mild reaction conditions.

**Facile construction of 1,2,6,7,12b-hexahydroindolo[2,3-*a*]quinolizines via one-pot three-component reactions of tryptamines, propiolate, and  $\alpha,\beta$ -unsaturated aromatic aldehydes or ketones**

pp 5451–5459

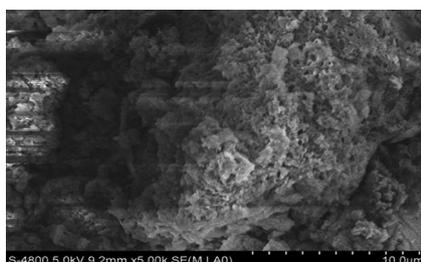
Jing Sun, Li-Li Zhang, Chao-Guo Yan\*



### Synthesis of salen Mn(III) immobilized onto the ZnPS-PVPA modified by 1,2,3-triazole and their application for asymmetric epoxidation of olefins

pp 5460–5467

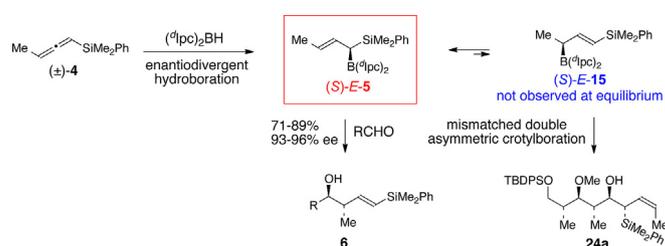
Jing Huang\*, Jiali Cai, Hao Feng, Zhiguo Liu, Xiangkai Fu, Qiang Miao



### Enantiodivergent hydroboration reactions of a racemic allenylsilane with diisopinocampheylborane and Curtin–Hammett controlled double asymmetric crotylboration reactions of (*S*)-*E*- $\alpha$ -phenyldimethylsilyl (<sup>d</sup>diisopinocampheyl)-crotylborane

pp 5468–5475

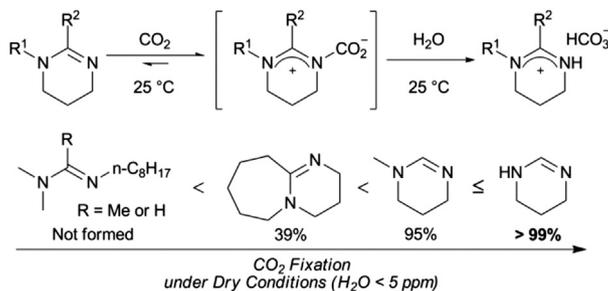
Ming Chen, William R. Roush\*



### Fast equilibrium of zwitterionic adduct formation in reversible fixation–release system of CO<sub>2</sub> by amidines under dry conditions

pp 5476–5480

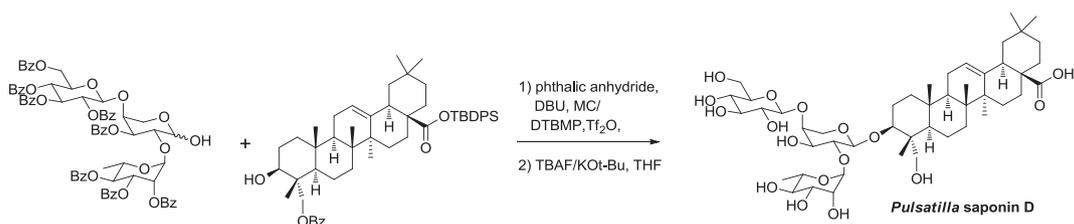
Naoto Aoyagi, Yoshio Furusho, Yoshihisa Sei, Takeshi Endo\*



### First total synthesis of natural pulsatilla saponin D via highly stereospecific glycosylation

pp 5481–5486

Minkyu Kim, Eunyong Lim, Mankil Jung\*

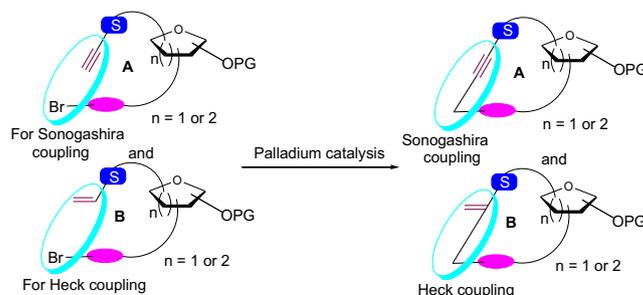




## Design and synthesis of carbohydrate based medium sized sulfur containing benzannulated macrocycles: applications of Sonogashira and Heck coupling

pp 5517–5524

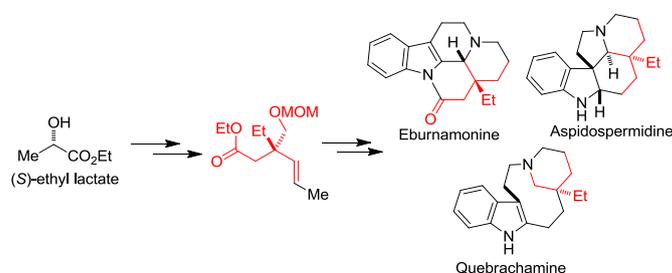
Altaf Hussain, Syed Khalid Yousuf, Deepak K. Sharma, L. Mallikharjuna Rao, Baldev Singh, Debaraj Mukherjee\*



## Enantiospecific total synthesis of indole alkaloids (+)-eburnamonine, (-)-aspidospermidine and (-)-quebrachamine

pp 5525–5536

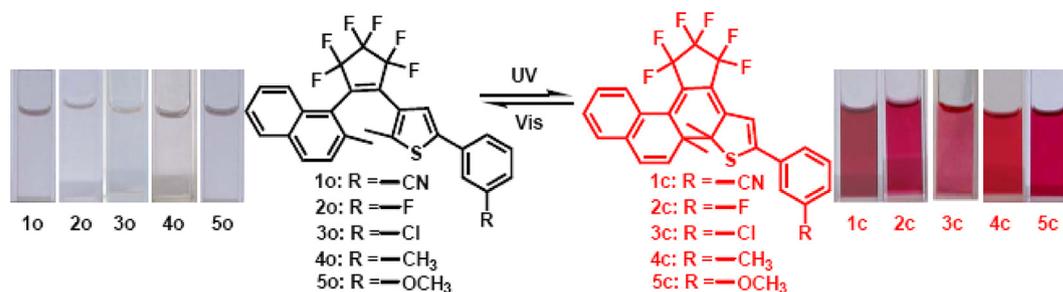
John Eugene Nidhiry, Kavirayani R. Prasad\*



## Photochromic diarylethenes with a naphthalene moiety: synthesis, photochromism, and substitution effects

pp 5537–5544

Renjie Wang, Shouzhi Pu\*, Gang Liu, Bing Chen

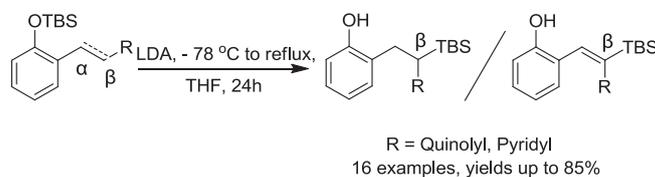


A new class of diarylethenes with a naphthalene moiety was synthesized. The substitution effects on their photochromic properties were studied systematically.

## Regioselective lateral or vinyl C–H lithiation/1,5-retro-Brook rearrangement via quinoyl or pyridyl ring directed deprotonation

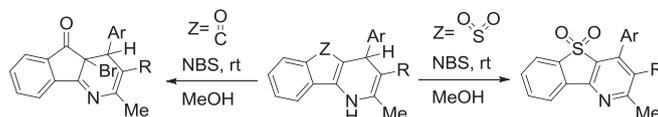
pp 5545–5549

Yongping He, Bin Ma, Juan Yang, Xingang Xie, Xuegong She\*

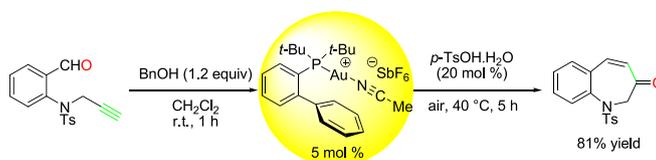


**Contrasting behaviour of NBS towards 1,4-dihydrobenzothieno[3,2-*b*]pyridine 5,5-dioxides and 4,5-dihydro-1*H*-indeno [1,2-*b*]pyridines** pp 5550–5557

Brigita Cekavicus, Brigita Vigante, Martins Rucins, Kintija Birkmane, Marina Petrova, Sergey Belyakov, Liga Zuka, Aiva Plotniece, Karlis Pajuste, Marina Gosteva, Arkadij Sobolev\*

**Synthesis of (*Z*)-1,2-dihydro-1-tosylbenzo[*b*]azepin-3-ones by two-step, one-pot gold-catalyzed tandem heterocyclization/Petasis–Ferrier rearrangement of 2-(*N*-(prop-2-ynyl)-*N*-tosylamino)benzaldehydes** pp 5558–5565

Ella Min Ling Sze, Ming Joo Koh, Yen Min Tjia, Weidong Rao, Philip Wai Hong Chan\*



\*Corresponding author

Supplementary data available via SciVerse ScienceDirect

**COVER**

Pharmacologically relevant tricyclic *ortho*-quinones were prepared via a MCR-initiated two-step sequence that involves up to nine individual reactions and achieves the generation of two C–N and one C–C bonds from simple starting materials and catalysts with a very high atom economy, since the only by-product is a molecule of water. © 2013 P. A. Suryavanshi, V. Sridharan, J. C. Menéndez.

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ISSN 0040-4020