

Tetrahedron Letters Vol. 49, No. 6, 2008

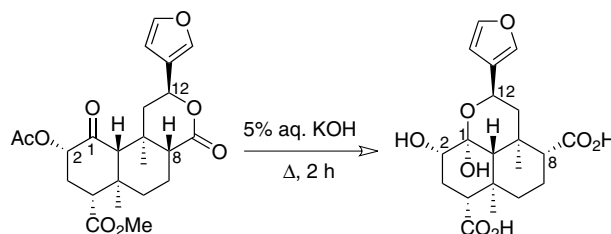
Contents

COMMUNICATIONS

Short synthesis of a novel class of salvinorin A analogs with hemiacetalic structure

pp 937–940

Ruslan V. Bikbulatov, Jeremy Stewart, Wentao Jin, Feng Yan, Bryan L. Roth, Daneel Ferreira, Jordan K. Zjawiony \*



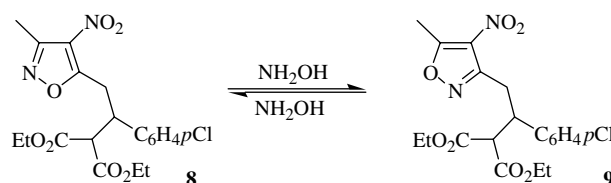
Novel semisynthetic analogs of salvinorin A with dual affinity for  $\kappa$ - and  $\mu$ -opioid receptors are obtained by hydrolysis with 5% aq KOH, subsequent hemiacetalization, and epimerization at C-12.



Practical route for N,O-heteroatom interchange in 3,5-disubstituted-4-nitroisoxazoles

pp 941–944

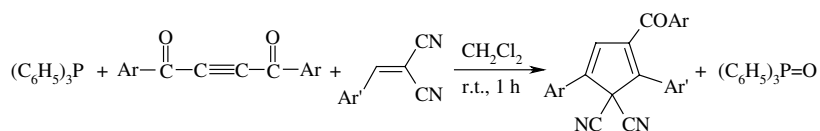
Mauro F. A. Adamo \*, Donato Donati, Piero Sarti-Fantoni, Arianna Buccioni



Reaction between triphenylphosphine, diarylacetylenes and arylidenemalononitriles: a novel and simple synthesis of 3-aryl-2,5-diaryl-2,4-cyclopentadiene-1,1-dicarbonitriles

pp 945–947

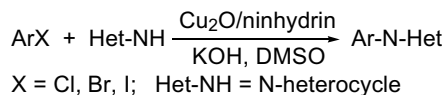
Mehdi Adib \*, Mohammad Hosein Sayahi, Shabnam Mahernia, Long-Guan Zhu



### Ninhydrin: an efficient ligand for the Cu-catalyzed N-arylation of nitrogen-containing heterocycles with aryl halides

pp 948–951

Yi-Zheng Huang, Jin Gao, Hong Ma, Hong Miao, Jie Xu \*

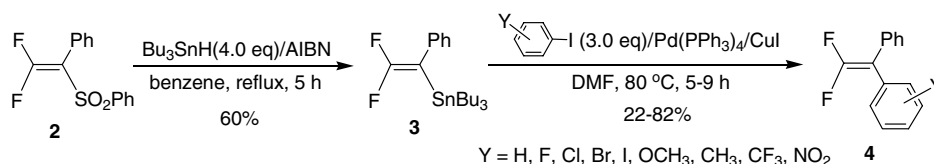


Cu<sub>2</sub>O/ninhydrin was found to be an efficient catalyst system for the N-arylation of nitrogen-containing heterocycles with aryl halides.

### A novel method for the synthesis of 2,2-diaryl-1,1-difluoroethenes

pp 952–955

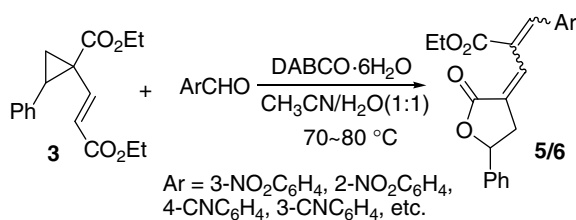
Ji Hoon Choi, In Howa Jeong \*



### A novel ring-opening based tandem domino process of an activated vinyl cyclopropane

pp 956–959

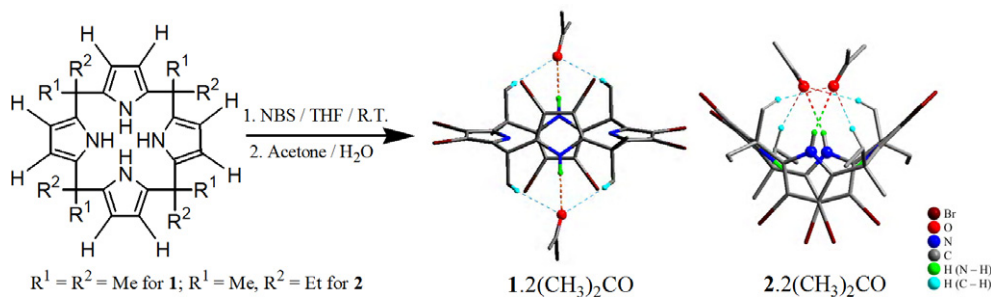
Ding Du, Zhongwen Wang \*



### Synthesis of β-octabromocalix[4]pyrroles and conformational diversity in their acetone inclusion complexes

pp 960–964

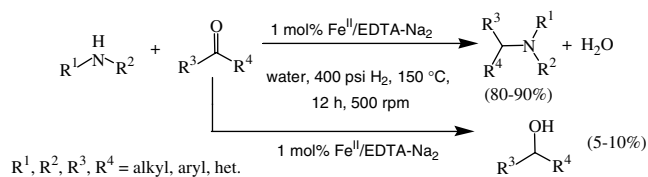
Soumen Dey, Kuntal Pal, Sabyasachi Sarkar \*



**Direct reductive amination of carbonyl compounds with primary/secondary amines using recyclable water-soluble Fe<sup>II</sup>/EDTA complex as catalyst**

pp 965–969

Malhari D. Bhor, Mayur J. Bhanushali, Nitin S. Nandurkar, Bhalchandra M. Bhanage \*

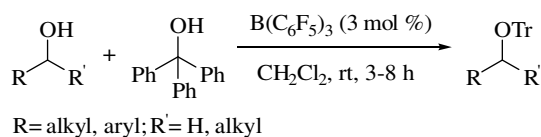


Direct reductive amination of aliphatic, aromatic and heterocyclic carbonyl compounds with primary/secondary amines is reported with water-soluble Fe<sup>II</sup>/EDTA complex as a catalyst using low-pressure molecular hydrogen in a biphasic media.

**Tris(pentafluorophenyl)borane: a mild and efficient catalyst for the chemoselective tritylation of alcohols**

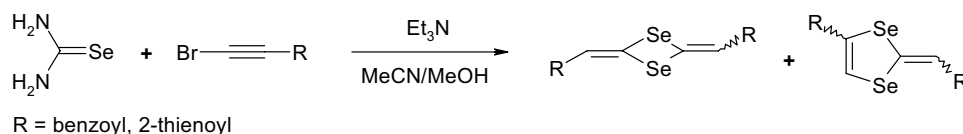
pp 970–973

Ch. Raji Reddy \*, G. Rajesh, S. V. Balaji, N. Chethan

**Reactions of selenourea with benzoyl- and 2-thienoylbromoacetylenes: synthesis of 1,3-diselenetanes and 1,4-diselenafulvenes**

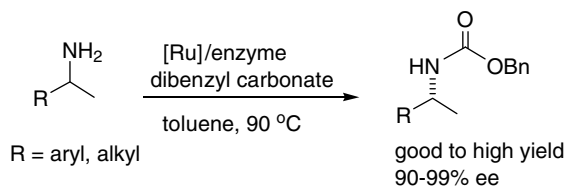
pp 974–976

Svetlana V. Amosova \*, Valentina N. Elokhina, Anatoly S. Nakhmanovich, Lyudmila I. Larina, Alexander V. Martynov, Barry R. Steele, Vladimir A. Potapov \*

**Practical chemoenzymatic dynamic kinetic resolution of primary amines via transfer of a readily removable benzyloxycarbonyl group**

pp 977–979

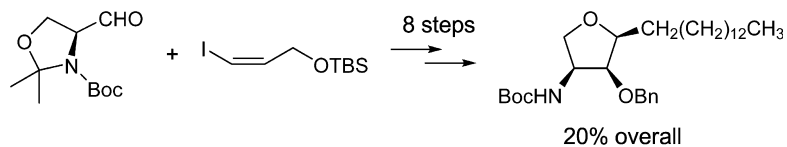
Christine E. Hoben, Lisa Kanupp, Jan-E. Bäckvall \*



**Stereoselective total synthesis of pachastrissamine (jaspine B)**

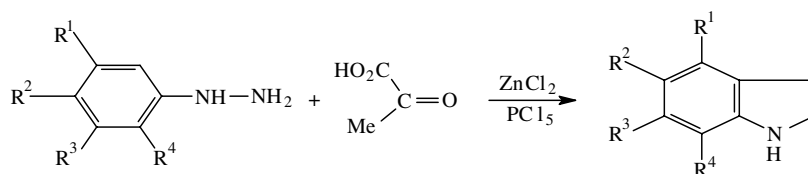
pp 980–983

Mikko Passiniemi, Ari M. P. Koskinen \*

**A new and efficient one-pot synthesis of indoles**

pp 984–986

George Bratulescu

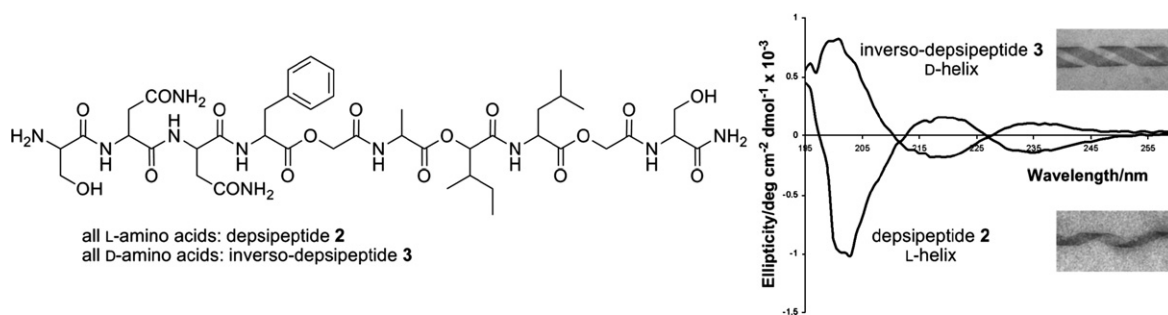


Indoles were synthesized from phenylhydrazines and pyruvic acid using microwave irradiation.

**Mirror image supramolecular helical tapes formed by the enantiomeric-depsipeptide derivatives of the amyloidogenic peptide amylin(20–29)**

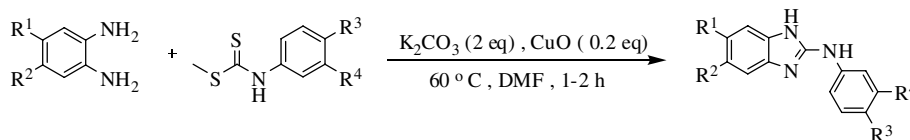
pp 987–991

Ronald C. Elgersma, Gwenn E. Mulder, George Posthuma, Dirk T. S. Rijkers, Rob M. J. Liskamp \*

**Dithiocarbamate and CuO promoted one-pot synthesis of 2-(N-substituted)-aminobenzimidazoles and related heterocycles**

pp 992–995

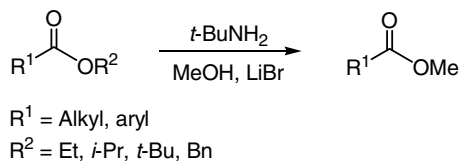
Parthasarathi Das \*, C. Kiran Kumar, K. Naresh Kumar, Md. Innus, Javed Iqbal, Nanduri Srinivas



**Transesterifications mediated by *t*-BuNH<sub>2</sub>**

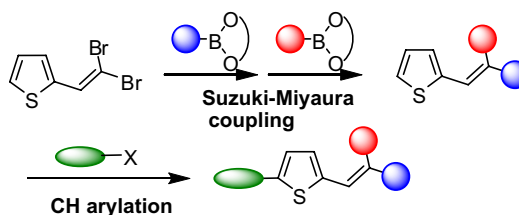
pp 996–999

Oscar R. Suárez-Castillo \*, Luis Alberto Montiel-Ortega, Manuel Jonathan Fragosó-Vázquez, Myriam Meléndez-Rodríguez, Maricruz Sánchez-Zavala

**Synthesis of thiophene derivatives via palladium-catalyzed coupling reactions**

pp 1000–1003

Nobumichi Arai, Takayuki Miyaoku, Shota Teruya, Atsunori Mori \*

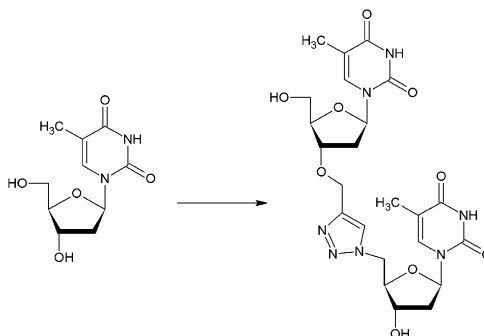


Thiophene derivatives with multiple substitutions are prepared from vinylidene bromide with Suzuki–Miyaura coupling and palladium-catalyzed CH arylation.

**Microwave-assisted synthesis of a triazole-linked 3'-5' dithymidine using click chemistry**

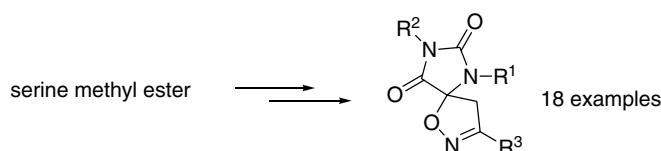
pp 1004–1007

Romain Lucas, Virginie Neto, Amel Hadj Bouazza, Rachida Zerrouki \*, Robert Granet, Pierre Krausz, Yves Champavier

**Solution-phase parallel synthesis of highly diverse spiroisoxazolinohydantoin**

pp 1008–1011

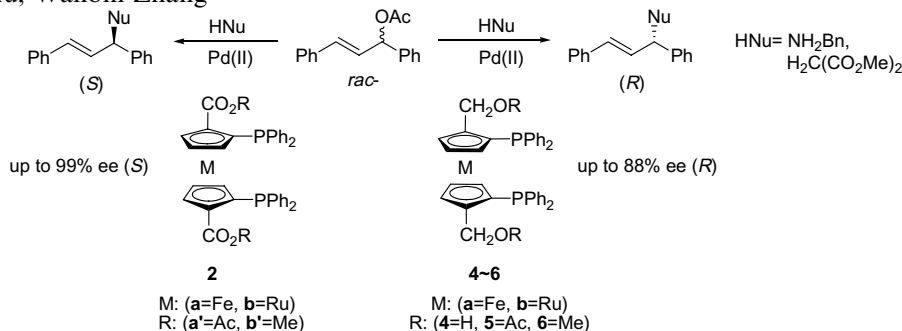
Hao-Wei Shih, Wei-Chieh Cheng \*



**Reversal in enantioselectivity for the palladium-catalyzed asymmetric allylic substitution with novel metallocene-based planar chiral diphosphine ligands**

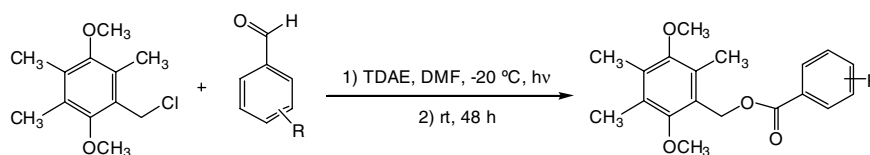
pp 1012–1015

Fang Xie, Delong Liu, Wanbin Zhang \*


**Original formation of benzyl benzoates by TDAE strategy**

pp 1016–1020

Ouassila Amiri-Attou, Thierry Terme, Maurice Médebielle, Patrice Vanelle \*

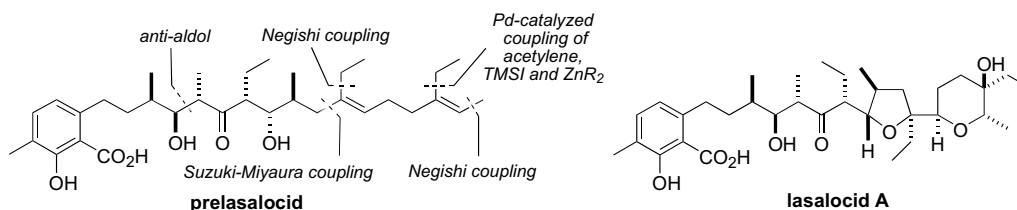


We report herein an original reaction of chloromethyl-dimethoxy benzenes and aromatic aldehydes in the presence of TDAE, under light catalysis, leading to corresponding benzyl benzoates.

**Stereo-controlled synthesis of prelasalocid, a key precursor proposed in the biosynthesis of polyether antibiotic lasalocid A**

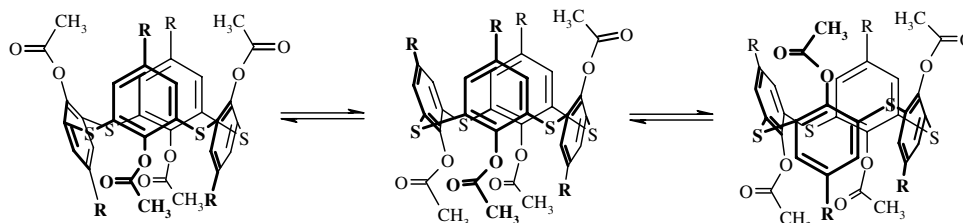
pp 1021–1025

Akira Migita, Yoshihiro Shichijo, Hiroki Oguri \*, Mami Watanabe, Tetsuo Tokiwano, Hideaki Oikawa \*


**Synthesis and conformational behaviour of lower-rim tetraacetylated thiacalix[4]arenes**

pp 1026–1029

Markéta Šimánová, Hana Dvořáková, Ivan Stibor, Michaela Pojarová, Pavel Lhoták \*

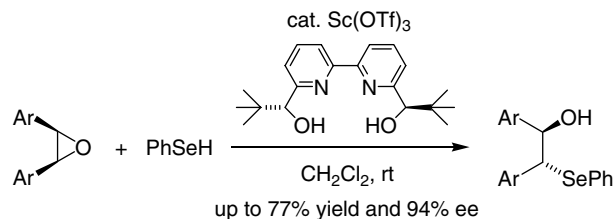


In contrast to classical calix[4]arenes, lower-rim tetraacetoxy-substituted thiacalix[4]arenes are conformationally mobile in solution and possess different conformational preferences depending on the upper-rim substitution (Bu' vs H).

**Scandium–bipyridine-catalyzed, enantioselective selenol addition to aromatic *meso*-epoxides**

pp 1030–1033

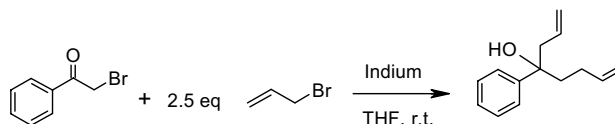
Andreas Tschöp, Mecheril Valsan Nandakumar, Oksana Pavlyuk, Christoph Schneider \*



**Indium-mediated *vic*-diallylation/propargylation of phenacyl bromides: a facile synthesis of 4-arylocta-1,7-dien-4-ol derivatives**

pp 1034–1036

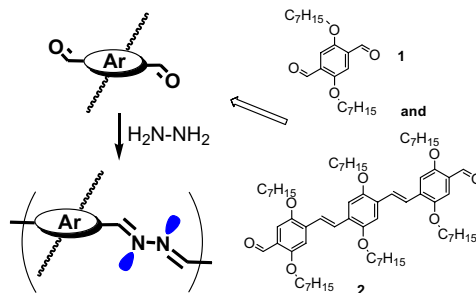
J. S. Yadav \*, B. V. Subba Reddy, Swapan Kumar Biswas, Sandip Sengupta, P. Vishnumurthy



**Soluble and processable conjugated polyazines with oligo(*p*-phenylene vinylene)s**

pp 1037–1040

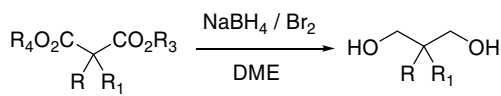
Narayan Mukherjee, Chivin Sun, Bilal Marie, Shi Jin, Ralf M. Peetz \*



**Facile reduction of malonate derivatives using NaBH<sub>4</sub>/Br<sub>2</sub>: an efficient route to 1,3-diols**

pp 1041–1044

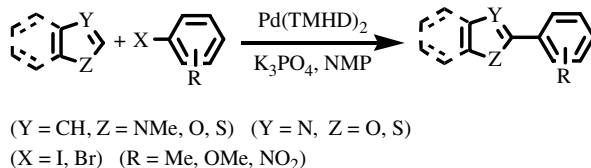
Matthew Tudge \*, Hiroko Mashima, Cecile Savarin, Guy Humphrey, Ian Davies



12 Examples, 82–98% Isolated Yield

**Palladium bis(2,2,6,6-tetramethyl-3,5-heptanedionate): an efficient catalyst for regioselective C-2 arylation of heterocycles** pp 1045–1048

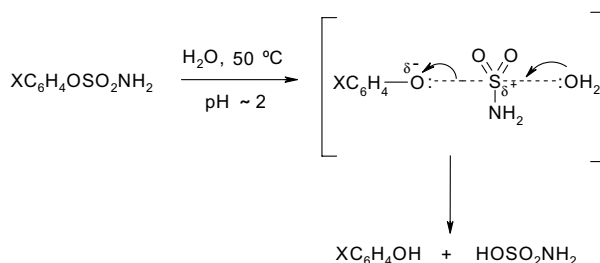
Nitin S. Nandurkar, Mayur J. Bhanushali, Malhari D. Bhor, Bhalchandra M. Bhanage \*



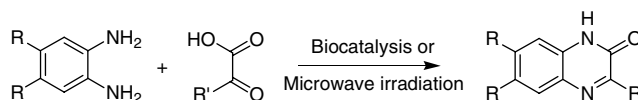
Palladium bis(2,2,6,6-tetramethyl-3,5-heptanedionate), a structurally well defined O-containing transition metal complex is reported as an efficient catalyst for regioselective direct C-2 arylation of heterocycles with aryl halides.

**Kinetic and mechanistic studies of the hydrolysis of sulfamate esters: a non-elimination decomposition route** pp 1049–1052

William J. Spillane \*, Cheryl J. A. McCaw, Neil P. Maguire


**Synthesis of potential chemotherapeutic quinoxalinone derivatives by biocatalysis or microwave-assisted Hinsberg reaction** pp 1053–1056

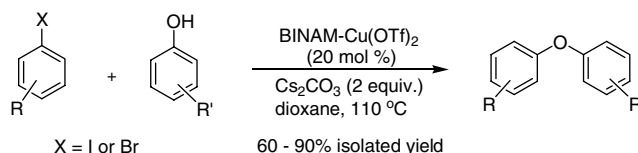
Javier Gris, Romina Glisoni, Lucas Fabian, Beatriz Fernández, Albertina G. Moglioni \*



Synthesis by Hinsberg reaction of quinoxalinone and benzoquinoxalinone derivatives under microwave irradiation, or employing biocatalysis, aiming at improving reaction times and yields of the standard reaction.

**An efficient BINAM–copper(II) catalyzed Ullmann-type synthesis of diaryl ethers** pp 1057–1061

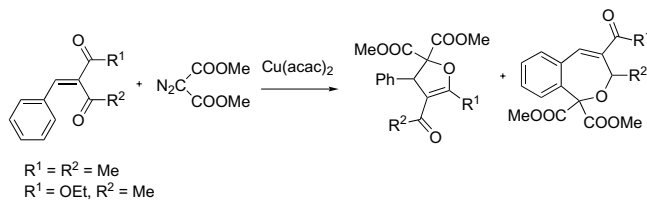
Ajay B. Naidu, O. R. Raghunath, D. J. C. Prasad, G. Sekar \*


 A wide range of diaryl ethers are synthesized from the corresponding aryl iodides and phenols through Ullmann type coupling reactions in the presence of a catalytic amount of easily available BINAM–Cu(OTf)<sub>2</sub> complex under mild reaction conditions. Less reactive aryl bromides have also been shown to react with phenols under identical reaction conditions to give good yields of the diaryl ethers without increasing the reaction temperature and time.



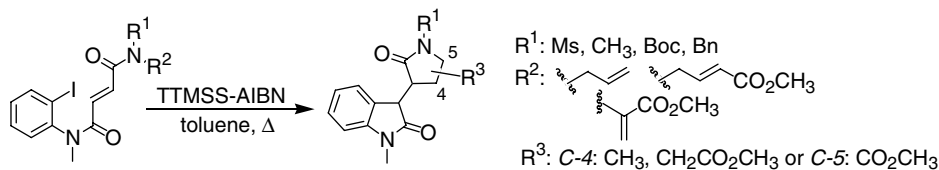
**Carbonyl ylide reactions of  $\alpha$ -benzylidene- $\beta$ -dicarbonyl compounds: competitive formation of dihydrofurans and dihydrobenzoxepines** pp 1062–1065

Olçay Anaç \*, Özkan Sezer, Özlem Candan, Füsün Şeyma Güngör, M. Şerif Cansever



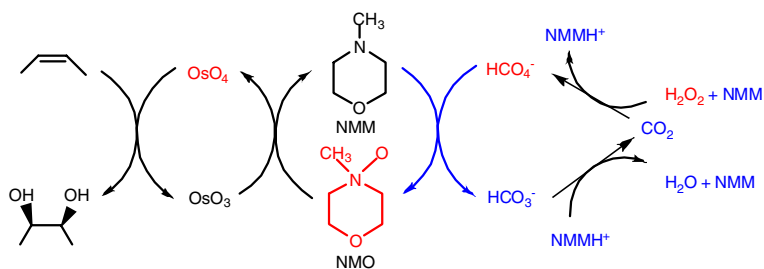
**A tandem radical cyclization approach to 3-(2-oxopyrrolidin-3-yl)indolin-2-ones, potential intermediates toward complex indole-heterocycles** pp 1066–1070

Marc Pudlo, Stéphane Gérard, Catherine Mirand, Janos Sapi \*



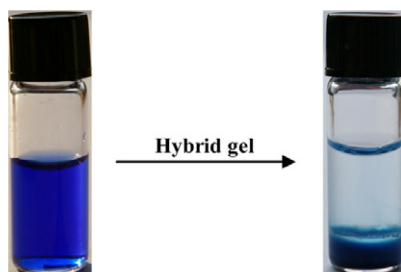
**Osmium-catalyzed asymmetric dihydroxylation by carbon dioxide-activated hydrogen peroxide and N-methylmorpholine** pp 1071–1075

Bharathi Balagam, Ranjan Mitra, David E. Richardson \*



**Terpyridine-based smart organic–inorganic hybrid gel as potential dye-adsorbing agent for water purification** pp 1076–1079

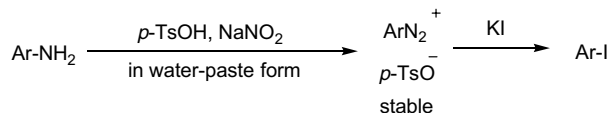
Eun Jin Cho, Il Yun Jeong, Soo Jin Lee, Won Seok Han, Jeong Ku Kang, Jong Hwa Jung \*



**Iodination of aryl amines in a water-paste form via stable aryl diazonium tosylates**

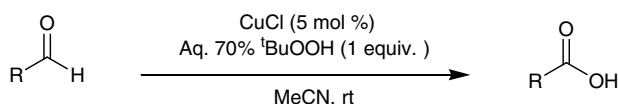
pp 1080–1082

Dmitry A. Gorkushko, Victor D. Filimonov \*, Elena A. Krasnokutskaya, Nadya I. Semenischeva, Bong Seong Go, Ho Yun Hwang, Eun Hye Cha, Ki-Whan Chi \*

**CuCl catalyzed oxidation of aldehydes to carboxylic acids with aqueous *tert*-butyl hydroperoxide under mild conditions**

pp 1083–1086

Sreedevi Mannam, G. Sekar \*

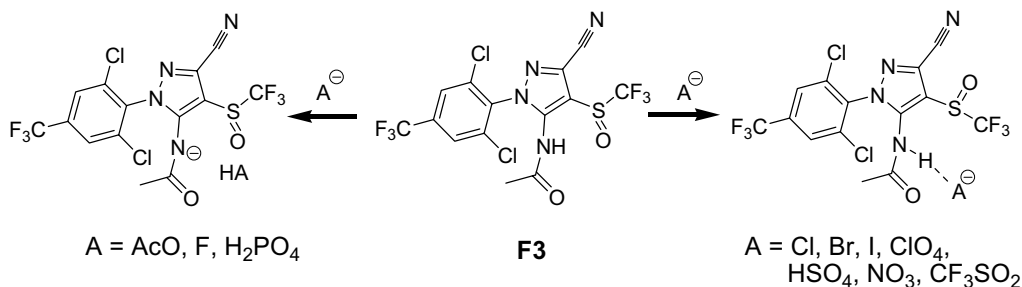


Oxidation of aldehydes to the corresponding carboxylic acids can be performed highly efficiently at room temperature with 70% *tert*-butyl hydroperoxide (in water) in the presence of a catalytic amount of ligand free CuCl in acetonitrile under very mild conditions.

**Anion recognition by a novel Fipronil-based receptor: efficient deprotonation or stable intermolecular hydrogen bonding**

pp 1087–1090

Chuanxiang Liu, Xuhong Qian \*, Jiaobing Wang, Zhong Li \*

**OTHER CONTENT**

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\*Corresponding author

Supplementary data available via ScienceDirect

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