

Tetrahedron Letters Vol. 50, No. 20, 2009

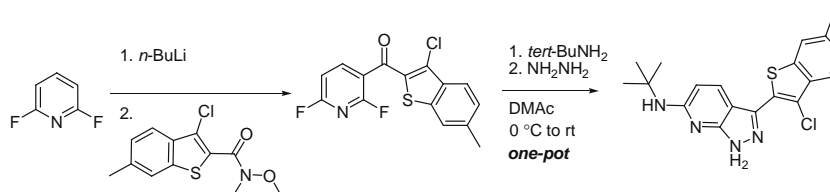
Contents

Communications

An efficient access to 3,6-disubstituted 1*H*-pyrazolo[3,4-*b*]pyridines via a one-pot double S_NAr reaction and pyrazole formation

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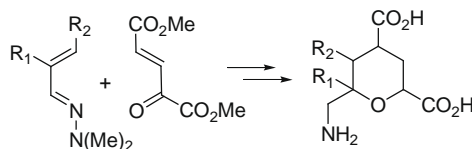
Yong-Li Zhong^{*}, Matthew G. Lindale, Nobuyoshi Yasuda



Unexpected formation of highly functionalized dihydropyrans via addition-cyclization reactions between dimethyl oxoglutaconate and α,β -unsaturated hydrazones

pp 2298–2300

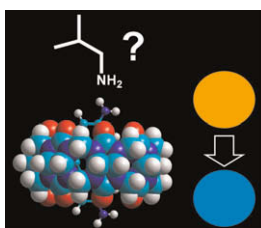
Jason E. Mullins, Jean-Louis G. Etoga, Mariusz Gajewski, Joseph I. DeGraw, Charles M. Thompson^{*}



Dual-response colorimetric sensor array for the identification of amines in water based on supramolecular host-guest complexation

pp 2301–2304

Pedro Montes-Navajas, Laurent A. Baumes, Avelino Corma, Hermenegildo Garcia^{*}



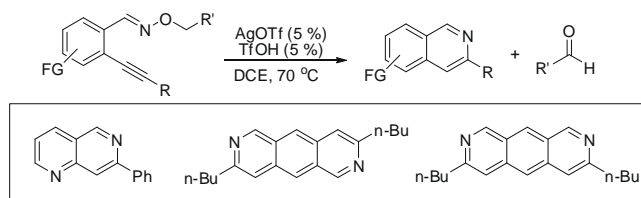
A 6 × 8 sensor array based on the combination of coloured/fluorescent dyes with organic capsules (cyclodextrins and cucurbiturils) serves to differentiate amines.



AgOTf and TfOH co-catalyzed isoquinoline synthesis via redox reactions of *O*-alkyl oximes

pp 2305–2308

Soojin Hwang, Youngun Lee, Phil Ho Lee, Seunghoon Shin *

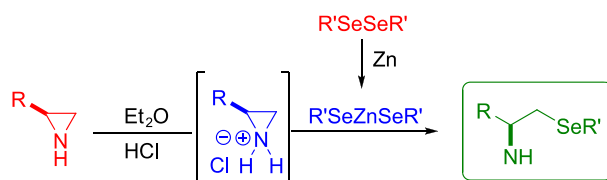


Under AgOTf and Brønsted acid co-catalysis, *O*-alkyl *o*-alkynylbenzaldoxime derivatives undergo a cyclization-induced N–O cleavage to produce isoquinolines with the simultaneous oxidation of *O*-alkyl group. This redox-based method provides a general access to diverse isoquinoline-derived heterocycles that are simple, efficient, and tolerant of various functional groups from readily available and hydrolytically stable oxime precursors.

**Ring opening of unprotected aziridines by zinc selenolates in a biphasic system**

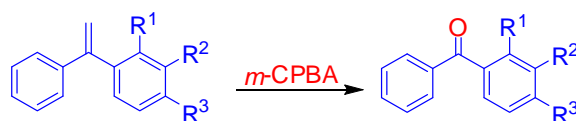
pp 2309–2311

Antonio L. Braga *, Ricardo S. Schwab, Eduardo E. Alberto, Syed M. Salman, Josimar Vargas, Juliano B. Azeredo

**Synthesis of benzophenones from geminal biaryl ethenes using *m*-chloroperbenzoic acid**

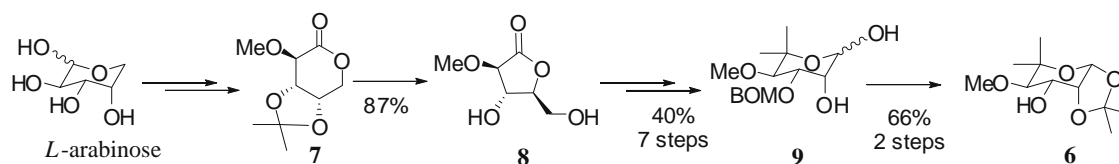
pp 2312–2316

Fateh V. Singh, Humberto M. S. Milagre, Marcos N. Eberlin, Helio A. Stefani *

**Selective hydroxyl protection of (+)-noviose via improved synthesis**

pp 2317–2319

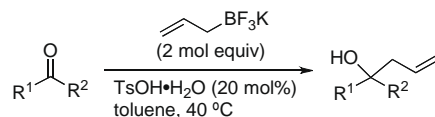
Yiqiu He, Jianjun Xue, Yumei Zhou, Junshan Yang *, Xiaoming Yu *



General and convenient TsOH-induced allylboration of ketones

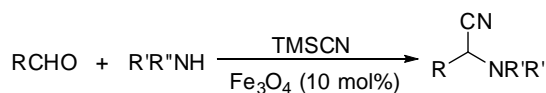
pp 2320–2321

Hiroaki Matsuoka, Kazuhiro Kondo *

**Superparamagnetic iron oxide as an efficient catalyst for the one-pot, solvent-free synthesis of α -aminonitriles**

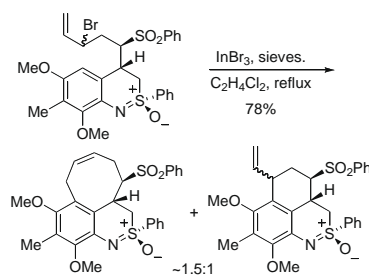
pp 2322–2325

Mohammad M. Mojtahedi *, M. Saeed Abaee *, Tooba Alishiri

**Benzothiazines in synthesis. Eight-membered ring formation in an intramolecular Friedel–Crafts reaction**

pp 2326–2328

Michael Harmata *, Weijiang Ying, Charles L. Barnes

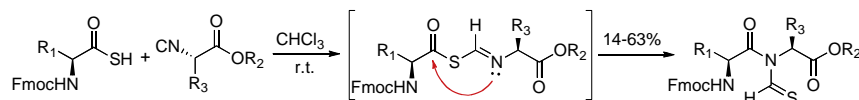


Treatment of certain benzothiazines bearing allylic bromides side chains with indium tribromide resulted in the formation of eight-membered rings in addition to the expected six-membered rings.

**Preparation and reactions of *N*-thioformyl peptides from amino thioacids and isonitriles**

pp 2329–2333

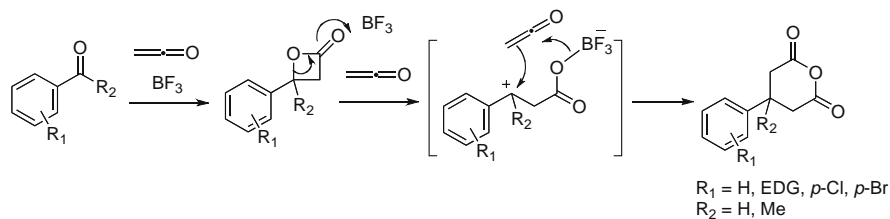
Yu Yuan, Jianglong Zhu, Xuechen Li, Xiangyang Wu, Samuel J. Danishefsky *



A one-pot synthesis of 3-arylglutaric anhydrides by reaction of ketene with aromatic aldehydes and ketones

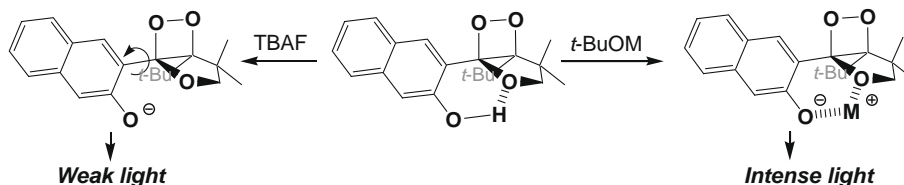
pp 2334–2336

Hirokazu Matsunaga, Kiyoshi Ikeda, Ken-ichi Iwamoto, Yumiko Suzuki, Masayuki Sato *

**Alkaline metal ion-enhanced chemiluminescence of bicyclic dioxetanes bearing a hydroxyaryl group with an 'even' substitution pattern**

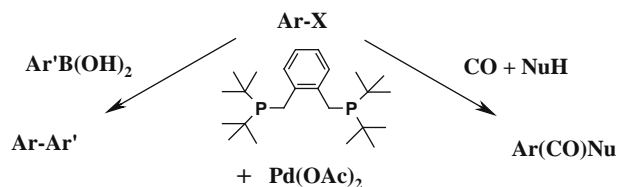
pp 2337–2341

Masakatsu Matsumoto *, Fumihiko Kakuno, Aoi Kikkawa, Naoyuki Hoshiya, Nobuko Watanabe, Hisako K. Ijuin

**Efficient palladium-catalysed carbonylative and Suzuki–Miyaura cross-coupling reactions with bis(di-tert-butylphosphino)-o-xylene**

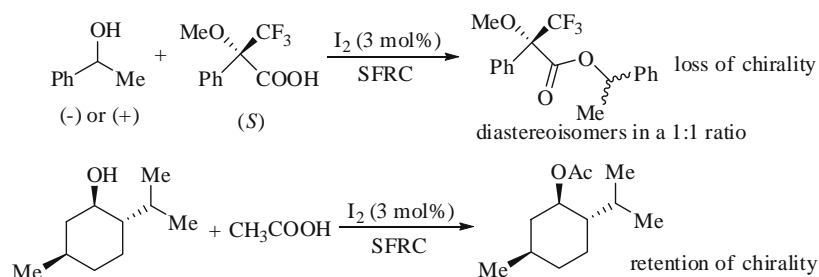
pp 2342–2346

James McNulty *, Jerald J. Nair, Marcin Sliwinski, Al J. Robertson

**Dual behavior of alcohols in iodine-catalyzed esterification under solvent-free reaction conditions**

pp 2347–2352

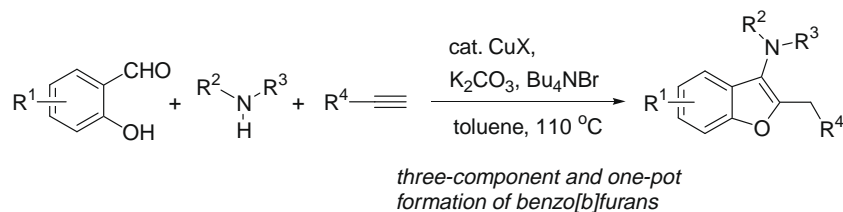
Marjan Jereb *, Dejan Vražič, Marko Zupan



New domino approach for the synthesis of 2,3-disubstituted benzo[*b*]furans via copper-catalyzed multi-component coupling reactions followed by cyclization

pp 2353–2357

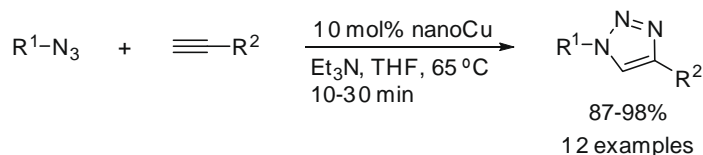
Hongfeng Li, Jun Liu, Bin Yan, Yanzhong Li *



Copper nanoparticles in click chemistry: an alternative catalytic system for the cycloaddition of terminal alkynes and azides

pp 2358–2362

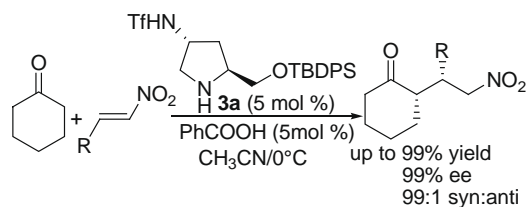
Francisco Alonso *, Yanina Moglie, Gabriel Radivoy, Miguel Yus *



4-Trifluoromethanesulfonamidyl prolinol *tert*-butyldiphenylsilyl ether as a highly efficient bifunctional organocatalyst for Michael addition of ketones and aldehydes to nitroolefins

pp 2363–2366

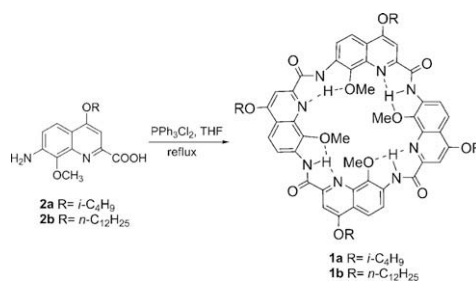
Chao Wang, Chun Yu, Changlu Liu, Yungui Peng *



H-bonding directed one-step synthesis of novel macrocyclic peptides from ϵ -aminoquinolinecarboxylic acid

pp 2367–2369

Fei Li, Quan Gan, Lin Xue, Zhong-ming Wang *, Hua Jiang *



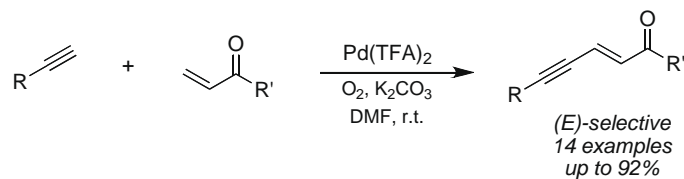
As foldamers based on quinoline δ -peptides were capable to cyclize intramolecularly, could their ϵ -peptides counterparts behave in the same way? Absolutely they can, especially from monomeric amino acid in one step!



Expedient enyne construction from alkynes via oxidative Pd(II)-catalyzed Heck-type coupling

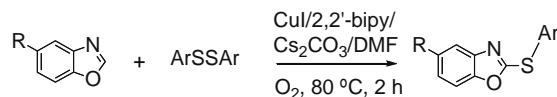
pp 2370–2373

Victor Hadi, Kyung Soo Yoo, Min Jeong, Kyung Woon Jung *

**Copper-catalyzed direct thiolation of benzoxazole with diaryl disulfides and aryl thiols**

pp 2374–2376

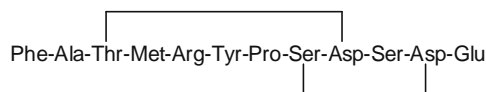
Shin-ichi Fukuzawa *, Eiji Shimizu, Yuka Atsuumi, Masatake Haga, Kenichi Ogata

**Total synthesis of marinostatin, a serine protease inhibitor isolated from the marine bacterium**

pp 2377–2380

Pseudoalteromonas sagamiensis

Misako Taichi, Toshimasa Yamazaki, Terutoshi Kimura, Yuji Nishiuchi *

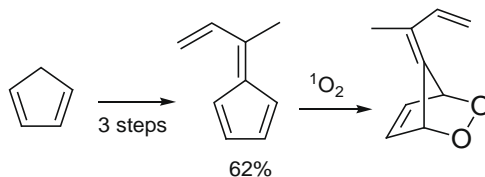


A total synthesis of marinostatin having two internal ester linkages was first achieved by a regioselective esterification employing two sets of orthogonally removable side-chain protecting groups for Asp and Ser/Thr.

An exceptionally simple and efficient synthesis of 6-methyl-6-vinylfulvene, and its oxidative transformations

pp 2381–2383

Ihsan Erden *, Christian Gärtner

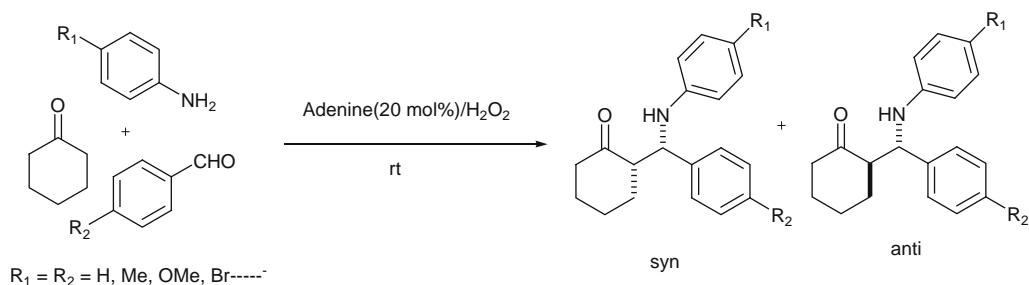


An efficient synthesis of 6-methyl-6-vinylfulvene is reported. Oxidative transformations of the title compound, including singlet oxygenation as well as epoxidation with *m*-CPBA are also described.

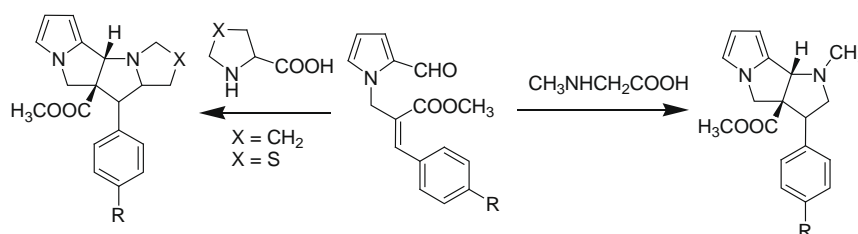


Adenine as aminocatalyst for green synthesis of diastereoselective Mannich products in aqueous medium

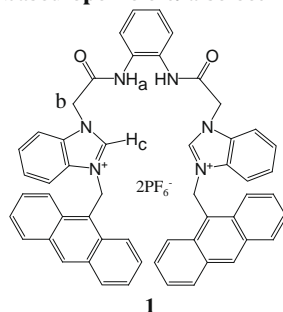
pp 2384–2388

Papori Goswami ^{*}, Babulal Das**Synthesis of pyrrolo[2,3-*a*]pyrrolizine and pyrrolizine[2,3-*a*]pyrrolizine derived from allyl derivatives of Baylis–Hillman adducts through intramolecular 1,3-dipolar cycloaddition**

pp 2389–2391

Subban Kathiravan, Ekambaram Ramesh, Raghavachary Raghunathan ^{*}**Design and synthesis of an *ortho*-phenylenediamine-based open cleft: a selective fluorescent chemosensor for dihydrogen phosphate**

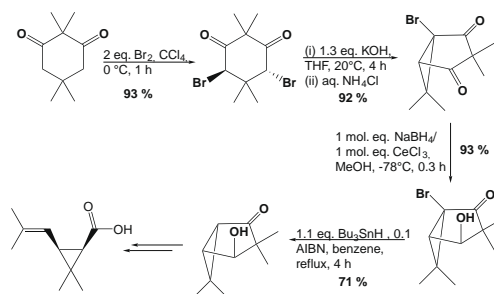
pp 2392–2397

Kumares Ghosh ^{*}, Indrajit Saha, Amarendra Patra

A new *ortho*-phenylenediamine-based open fluorescent cleft **1** has been designed and synthesized. The open cleft selectively recognizes tetrabutylammonium dihydrogen phosphate in CH_3CN . The anthracene emission of **1** is significantly decreased upon the sensing of dihydrogen phosphate (H_2PO_4^-) in CH_3CN . The anion binding properties of **1** were evaluated by ^1H NMR, UV–vis, and fluorescence spectroscopic methods.

**Novel synthesis of (*d,l*)-*cis*-chrysanthemic acid involving α,α' -dibromination of 2,2,5,5-tetramethylcyclohexane-1,3-dione: application to the enantioselective synthesis of (*1R*)-*cis*-chrysanthemic acid**

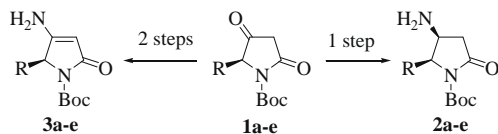
pp 2398–2401

Alain Krief ^{*}, Willy Dumont, Adrian Kremer

A general approach for the synthesis of 5-substituted-4-amino-pyrrolidin-2-ones and 5-substituted-4-amino-3-pyrrolin-2-ones

pp 2402–2404

Sergio Pinheiro ^{*}, Ronaldo C. da Silva Júnior, Acácio Silva de Souza, José Walkimar de M. Carneiro, Estela M. F. Muri, O. A. C. Antunes



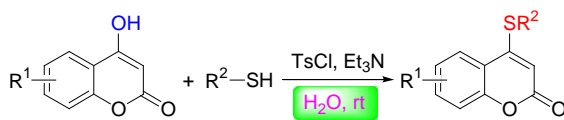
Simple protocols for the syntheses of both 5-substituted-4-amino-pyrrolidin-2-ones and 3-pyrrolin-2-ones from tetramic acids are presented.



Direct sulfanylation of 4-hydroxycoumarins with thiols in water

pp 2405–2406

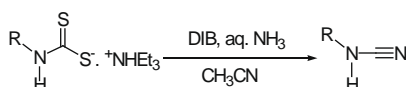
Yi-Yuan Peng ^{*}, Yanfang Wen, Xuechun Mao, Guanyinsheng Qiu



An efficient synthesis of cyanamide from amine promoted by a hypervalent iodine(III) reagent

pp 2407–2410

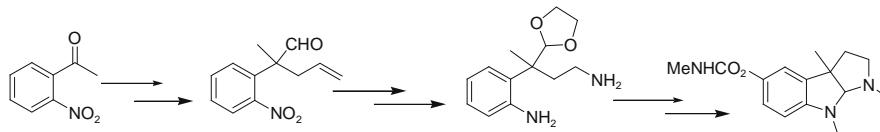
Harisadhan Ghosh, Ramesh Yella, Abdur Rezzak Ali, Santosh K. Sahoo, Bhisma K. Patel ^{*}



A novel and efficient total synthesis of (±)-physostigmine

pp 2411–2413

Mukund G. Kulkarni ^{*}, Attrimuni P. Dhondge, Ajit S. Borhade, Dnyaneshwar D. Gaikwad, Sanjay W. Chavhan, Yunnus B. Shaikh, Vijay B. Ningdale, Mayur P. Desai, Deekshaputra R. Bihade, Mahadev P. Shinde

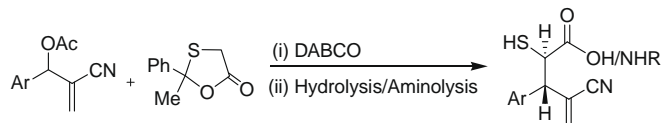


Application of the Wittig olefination–Claisen rearrangement protocol for the total synthesis of (±)-physostigmine.



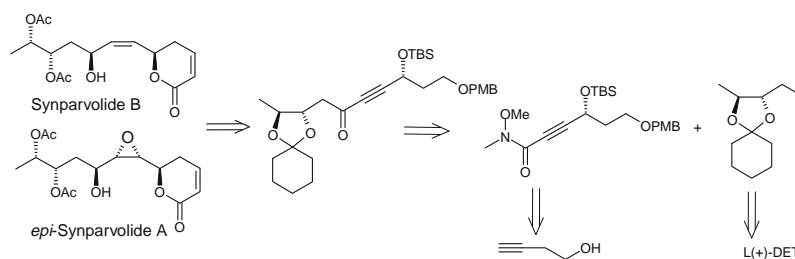
The first regio- and diastereoselective direct introduction of α -mercaptoacetic acid/amide units into Morita–Baylis–Hillman acetates

pp 2414–2419

Lal Dhar S. Yadav ^{*}, Viaji K. Rai

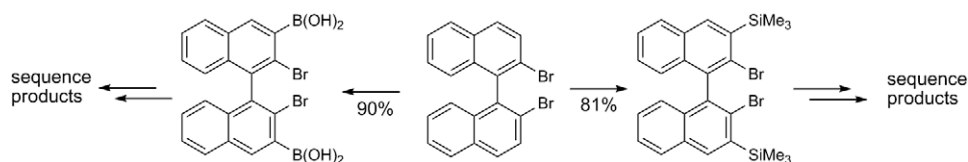
Stereoselective total synthesis of synparvolide B and *epi*-synparvolide A

pp 2420–2424

P. Srihari ^{*}, E. Vijaya Bhasker, A. Bal Reddy, J. S. Yadav

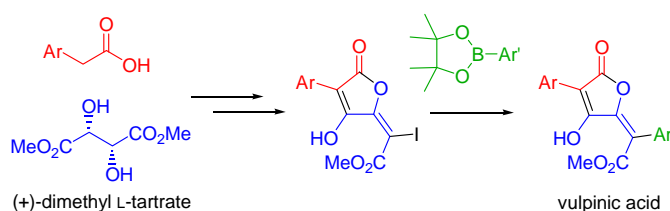
A new route to 2,2',3,3'-tetrasubstituted binaphthyls

pp 2425–2429

Michael Widhalm ^{*}, Christian Aichinger, Kurt Mereiter

Synthesis of vulpinic acids from dimethyl tartrate

pp 2430–2433

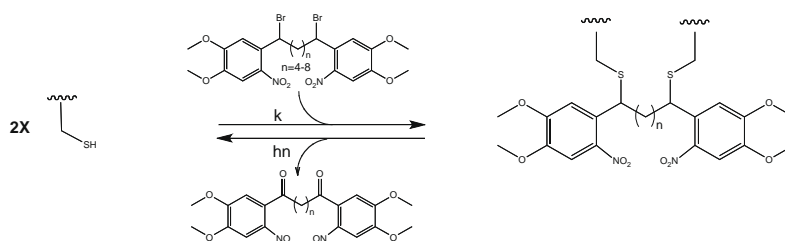
Brice Nadal, Pierre Thuéry, Thierry Le Gall ^{*}

Vulpinic acids were prepared by Suzuki–Miyaura cross-coupling involving a common iodoalkene, obtained in a few steps, including a Dieckmann cyclization, from (+)-dimethyl L-tartrate.

Synthesis and photochemical properties of photo-cleavable crosslinkers

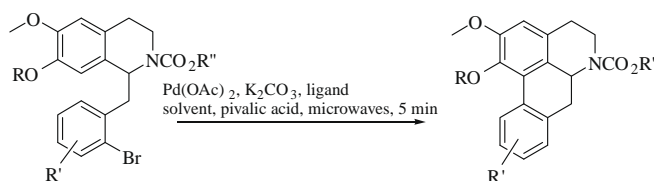
pp 2434–2436

Ziad Omran, Alexandre Specht *

**Microwave-assisted direct biaryl coupling: first application to the synthesis of aporphines**

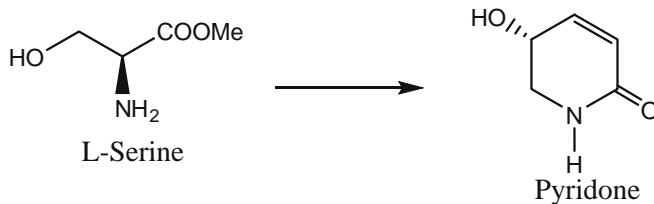
pp 2437–2439

Sandeep Chaudhary, Stevan Pecic, Onica LeGendre, Wayne W. Harding *

**A facile synthesis of 5,6-dihydro-5-hydroxy-2(1H)-pyridone**

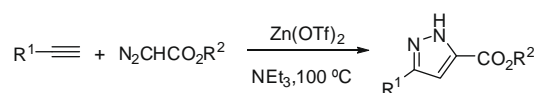
pp 2440–2442

Puspesh K. Upadhyay, Rajendra Prasad, Menaka Pandey, Pradeep Kumar *


**1,3-Dipolar cycloaddition of diazoacetate compounds to terminal alkynes promoted by Zn(OTf)₂: an efficient way to the preparation of pyrazoles**

pp 2443–2445

Sheng He, Li Chen, Yan-Ning Niu, Lu-Yong Wu, Yong-Min Liang *



*Corresponding author

 Supplementary data available via ScienceDirect

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