

Tetrahedron Letters Vol. 51, No. 34, 2010

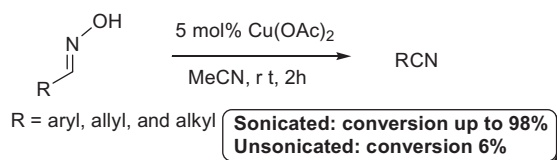
Contents

COMMUNICATIONS

Ultrasound-promoted synthesis of nitriles from aldoximes under ambient conditions

pp 4479–4481

Nan Jiang, Arthur J. Ragauskas*

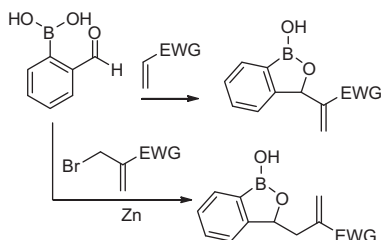


Ultrasound-promoted copper(II)-catalyzed dehydration of aldoximes in acetonitrile to give nitriles under ambient conditions.

Development of practical methodologies for the synthesis of functionalized benzoboroxoles

pp 4482–4485

J. Sravan Kumar, Christopher M. Bashian, Michael A. Corsello, Subash C. Jonnalagadda*, Venkatram R. Mereddy*

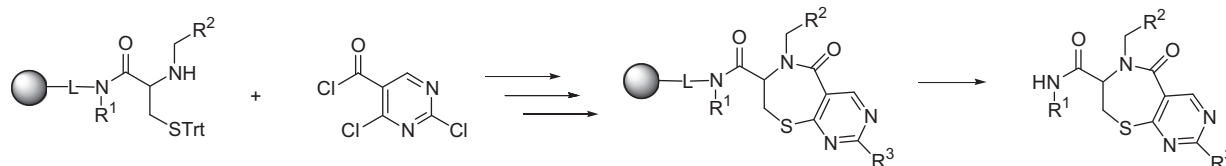


2-Formylphenylboronic acids upon reaction with activated olefins such as acrylates, methyl vinyl ketone, and acrylonitrile provide functionalized benzoboroxoles. The corresponding homologated benzoboroxoles were synthesized via the reaction of 2-formylphenylboronic acids with α -bromomethylacrylates.

A facile synthesis of novel 2-amino-6-arylmethyl-7-carboxamido-7,8-dihydropyrimido[5,4-f][1,4]thiazepin-5-ones

pp 4486–4489

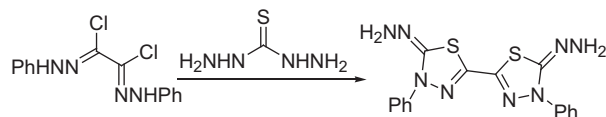
Lan-Ying Qin*, Andrew G. Cole, Axel Metzger, Marc-Raleigh Brescia, Kurt W. Saionz, Joan J. Zhang, Pascal Rigollier, James R. Wareing, Hubert Gstach, Juerg Zimmermann, Roland E. Dolle, John J. Baldwin, Ian Henderson



Synthesis of novel thiadiazoles and bis-thiadiazoles from carbonothioic dihydrazide

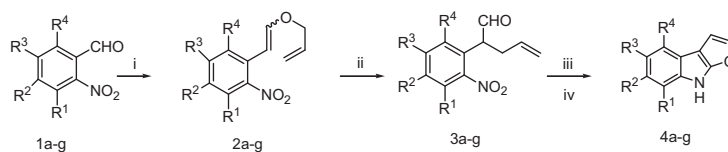
pp 4490–4493

Abdelwahed R. Sayed

**A short and efficient synthesis of furo[2,3-b]indoles**

pp 4494–4496

Mukund G. Kulkarni*, Sanjay W. Chavhan, Mayur P. Desai, Yunnus B. Shaikh, Dnyaneshwar D. Gaikwad, Attrimuni P. Dhondge, Ajit S. Borhade, Vijay B. Ningdale, Deekshaputra R. Birhade, Nagorao R. Dhatrik

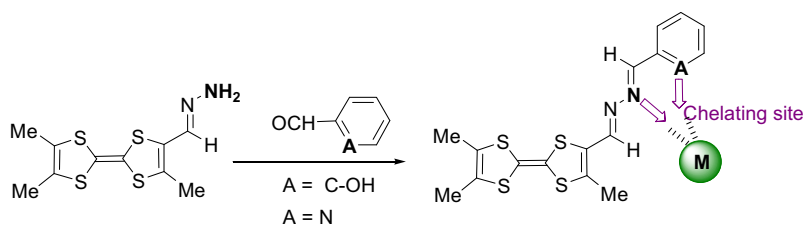


Application of Wittig olefination–Claisen rearrangement protocol for the short synthesis of furo[2,3-b]indoles is described.

Tetrathiafulvalene hydrazone: efficient synthon for the synthesis of novel bidentate redox active ligands

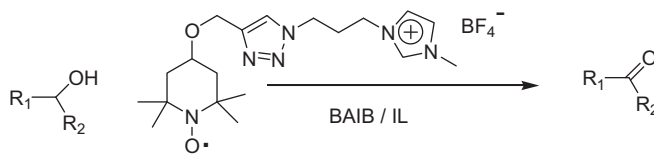
pp 4497–4500

Saleha Bakhta, Michel Guerro, Bellara Kolli, Frédéric Barrière, Thierry Roisnel, Dominique Lorcy*

**Ionic liquid-supported TEMPO as catalyst in the oxidation of alcohols to aldehydes and ketones**

pp 4501–4504

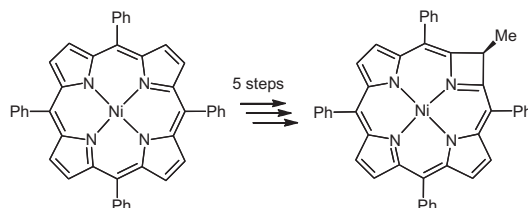
Alioune Fall, Massene Sene, Mohamed Gaye*, Generosa Gómez, Yagamare Fall*



[2-Methylazeteochlorinato]Ni(II): a pyrrole ring-contracted chlorin analogue

pp 4505–4508

Subhadeep Banerjee, Michael A. Hyland, Christian Brückner*

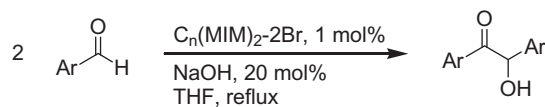


The final steps in the formal conversion of [meso-tetra-phenylporphyrinato]Ni(II) into the corresponding chlorin analogue [2-methylazeteochlorinato]Ni(II) are described.

**An investigation of the catalytic potential of mono- and dicationic imidazolium N-heterocyclic carbenes in the benzoin condensation**

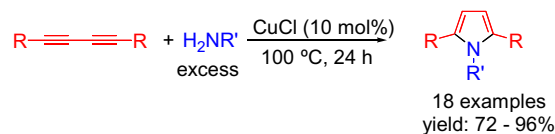
pp 4509–4511

Murat Emrah Mavis, Cigdem Yolacan*, Feray Aydogan

**CuCl-catalyzed cycloaddition of 1,3-butadiynes with primary amines: an atom-economic process for synthesis of 1,2,5-trisubstituted pyrroles**

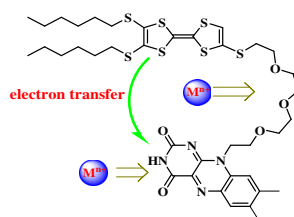
pp 4512–4514

Qingwei Zheng, Ruimao Hua*

**Tetrathiafulvalene–flavin dyads: electron transfer promoted by metal cations**

pp 4515–4518

Lina Jia, Guanxin Zhang*, Deqing Zhang*, Daoben Zhu



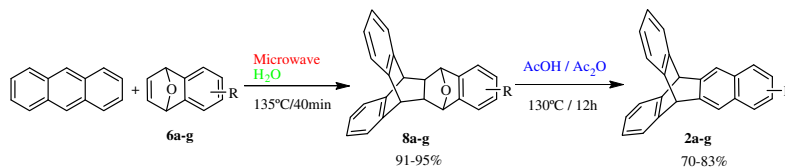
Intramolecular electron transfer in tetrathiafulvalene–flavin dyads was observed in the presence of a metal ions.



Highly efficient synthesis of extended triptycenes via Diels–Alder cycloaddition in water under microwave radiation

pp 4519–4522

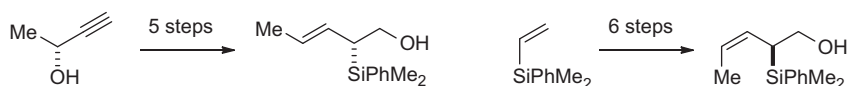
Bao-Jian Pei, Albert W. M. Lee*



Practical synthesis of (*E*)- and (*Z*)-2-silyl-3-penten-1-ols with high enantiopurity

pp 4523–4525

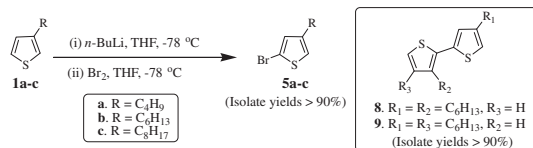
Koichiro Fukuda, Masaaki Miyashita, Keiji Tanino*



A selective and direct synthesis of 2-bromo-4-alkylthiophenes: Convenient and straightforward approaches for the synthesis of head-to-tail (HT) and tail-to-tail (TT) dihexyl-2,2'-bithiophenes

pp 4526–4529

Ashraf A. El-Shehawy*, Nabiha I. Abdo, Ahmed A. El-Barbary, Jae-Suk Lee*



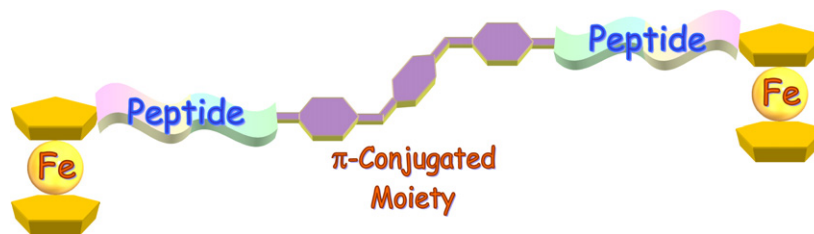
A clean and selective method for the synthesis of 2-bromo-4-alkylthiophenes (5a-c) was developed, and the desired products were obtained in excellent yields (>90%). The proposed methodology was based on the regioselective lithiation of 3-alkylthiophenes (1a-c) with *n*-BuLi at -78 °C and the reaction of the lithiated intermediate with bromine. A simple and efficient protocol for the synthesis of dihexyl-2,2'-bithiophenes from 2-bromo-4-hexylthiophene (5b) was developed via Kumada and Suzuki cross-coupling reactions in high yields (>90%) and excellent selectivity for the head-to-tail (HT) and tail-to-tail (TT) regioisomers.



Design and characterization of ferrocene-peptide-oligoaniline conjugates

pp 4530–4533

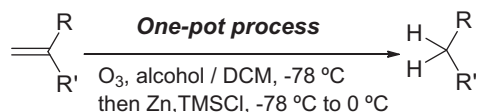
Toshiyuki Moriuchi*, Nami Kikushima-Honda, Satoshi D. Ohmura, Toshikazu Hirao*



One-pot reductive cleavage of *exo*-olefin to methylene with a mild ozonolysis–Clemmensen reduction sequence

pp 4534–4537

Shu Xu, Takayuki Toyama, Jun Nakamura, Hirokazu Arimoto*

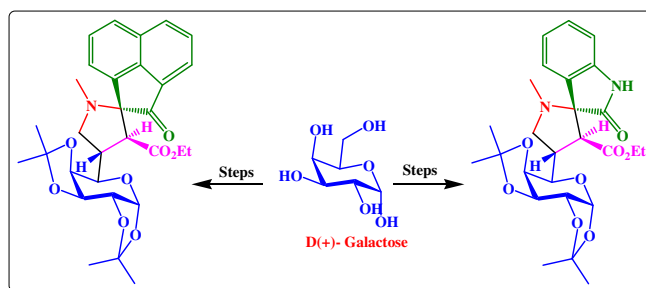


A one-pot *exo*-olefin reductive cleavage was for the first time developed. The reaction could proceed under a mild condition avoiding the use of hazardous and expensive reagents. Meanwhile, a TMSCl-mediated Clemmensen reduction in alcoholic solvent was also examined.

Highly regioselective synthesis of glycospiro heterocycles through 1,3-dipolar cycloaddition reaction

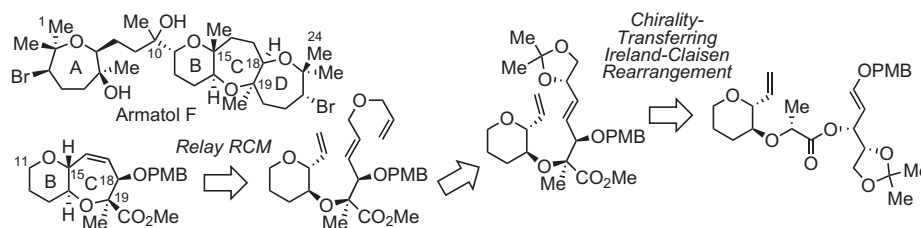
pp 4538–4542

R. Prasanna, S. Purushothaman, R. Raghunathan*

**Model studies for the stereoselective construction of the BC-ring of armatol F based on Ireland–Claisen rearrangement and relay ring-closing olefin metathesis**

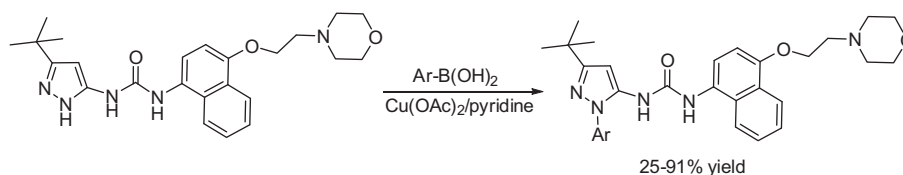
pp 4543–4546

Kenshu Fujiwara*, Keita Tanaka, Yasushi Katagiri, Hidetoshi Kawai, Takanori Suzuki

**Synthesis of p38 MAP kinase inhibitor BIRB 796 and analogs via copper-mediated N-arylation reaction**

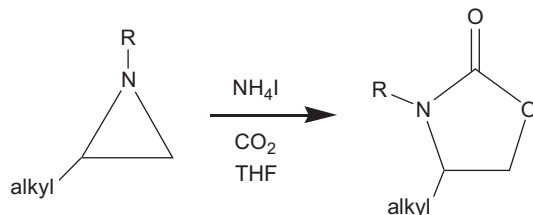
pp 4547–4551

Zhulin Tan*, Jinhua J. Song, Jonathan T. Reeves, Daniel R. Fandrick, Heewon Lee, Scot Campbell, Nathan K. Yee



The high yield and regioselective conversion of an unactivated aziridine to an oxazolidinone using carbon dioxide with ammonium iodide as the catalyst pp 4552–4554

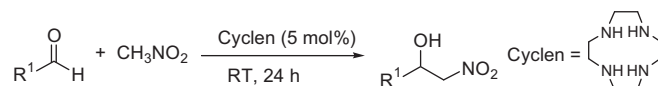
Chau Phung, Allan R. Pinhas*



Cyclen-catalyzed Henry reaction under neutral conditions

pp 4555–4557

Chloé Vovard-Le Bray, Fan Jiang, Xiao-Feng Wu, Jean-Baptiste Sortais, Christophe Darcel*



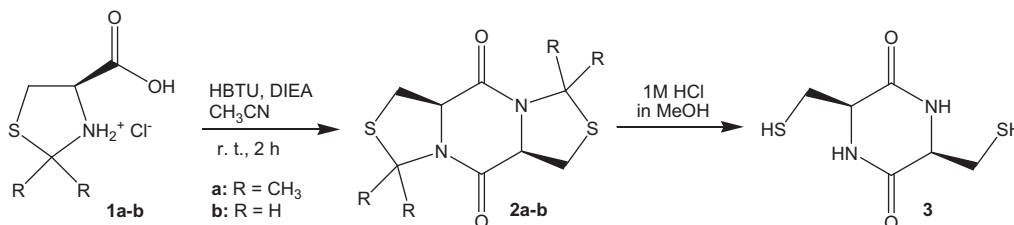
A convenient cyclen-catalyzed Henry reaction of aldehydes with nitroalkanes under mild and neutral conditions is reported. This procedure constitutes the first cyclen-catalyzed synthesis of nitroalcohols and is adapted to the condensation of both aromatic and aliphatic aldehydes with nitromethane in THF at room temperature without addition of stoichiometric amount of the base. A wide range of β -nitroalcohols were obtained in moderate to good yields (up to 98%) using this methodology.



A straightforward synthesis and partial hydrolysis of cysteine-derived 2,5-diketopiperazines

pp 4558–4559

Daniela Iannotta, Nicola Castellucci, Magda Monari, Claudia Tomasini*

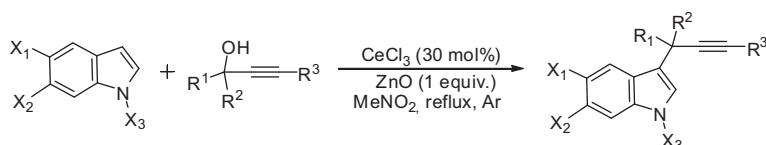


The preparation of cysteine-derived 2,5-diketopiperazines (DKPs) by cyclization of tetrahydrothiazole-4-carboxylic acids is reported in high yield. The DKPs have been fully characterized and one has been hydrolyzed to *cyclo*-Cys-Cys.

Anhydrous CeCl₃ catalyzed C3-selective propargylation of indoles with tertiary alcohols

pp 4560–4562

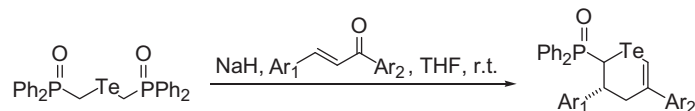
Claudio C. Silveira*, Samuel R. Mendes, Lucas Wolf, Guilherme M. Martins



Synthesis of 2-diphenylphosphinoyl-3,5-diaryl-3,4-dihydro-2H-telluropyrans by reaction of chalcones with bis[(diphenylphosphinoyl)methyl]telluride

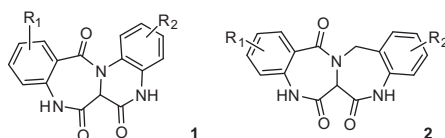
pp 4563–4565

Claudio C. Silveira*, Francieli Rinaldi, Mariana M. Bassaco, Teodoro S. Kaufman

**Two-step syntheses of fused quinoxaline-benzodiazepines and bis-benzodiazepines**

pp 4566–4569

Zhigang Xu, Justin Dietrich, Arthur Y. Shaw, Christopher Hulme*

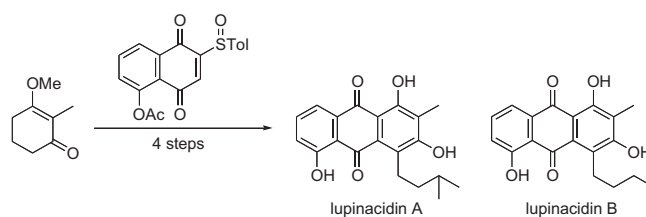


Novel two-step solution phase protocols for the synthesis of fused 6,7,6-quinoxalinone-benzodiazepines **1** and 6,7,7-bis-benzodiazepines **2** are reported. Optimization of the methodology to produce these tetracyclic scaffolds was enabled by microwave irradiation and the use of the convertible isocyanide, 4-*tert*-butyl cyclohexen-1-yl isocyanide. The methodology employs the Ugi reaction to assemble the desired diversity and acid treatment enables sequential ring-closing transformations.

Synthesis of lupinacidins A and B via sequential cycloaddition–double elimination

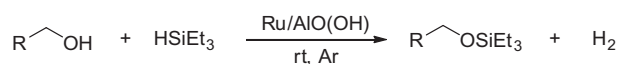
pp 4570–4572

Kohei Sugimoto, Masaru Enomoto*, Shigefumi Kuwahara*

**Silylation of primary alcohols with recyclable ruthenium catalyst and hydrosilanes**

pp 4573–4575

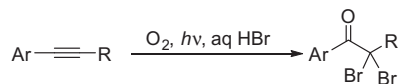
Sungjin Kim, Min Serk Kwon, Jaiwook Park*



Facile aerobic photo-oxidative syntheses of α,α -dibromoacetophenones from aromatic alkynes with 48% aq HBr

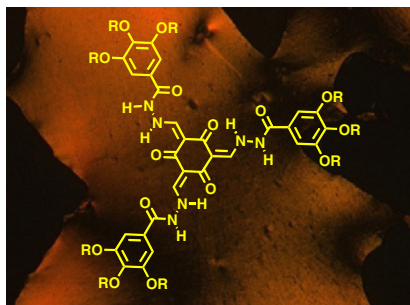
pp 4576–4578

Tomoya Nobuta, Shin-ichi Hirashima, Norihiro Tada, Tsuyoshi Miura, Akichika Itoh*

**The first examples of supramolecular discotic C_{3h} tris(*N*-salicylideneamine)s featuring inter- and intra-molecular H-bonding: synthesis and characterization**


pp 4579–4583

C. V. Yelamaggad*, Rashmi Prabhu, D. S. Shankar Rao, S. Krishna Prasad

**OTHER CONTENT****Corrigendum**

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*Corresponding author

 Supplementary data available via ScienceDirect

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