

**Tetrahedron Letters Vol. 51, No. 14, 2010**

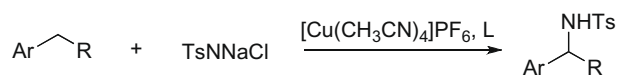
**Contents**

**COMMUNICATIONS**

**Ligand-assisted, copper-catalyzed enantioselective benzylic amination**

pp 1815–1818

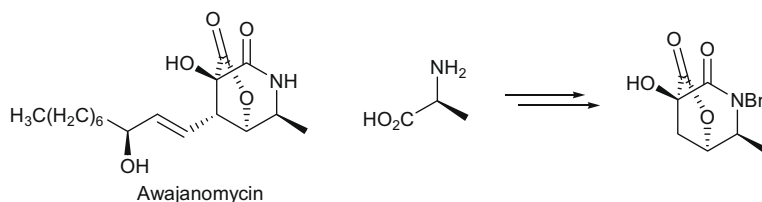
Dipti N. Barman, Kenneth M. Nicholas\*



**An enantioselective synthesis of the bicyclic core of the marine natural product awajanomycin**

pp 1819–1821

Deiniol R. Pritchard, Jonathan D. Wilden\*



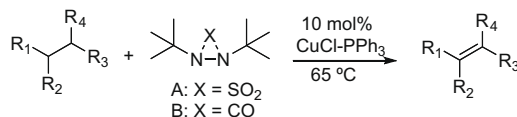
A concise enantioselective approach to the core of the marine natural product awajanomycin is described, beginning with L-alanine.



**An effective C–C double bond formation via Cu(I)-catalyzed dehydrogenation**

pp 1822–1825

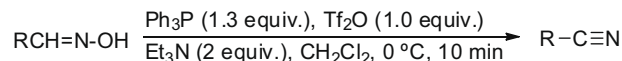
Thomas A. Ramirez, Baoguo Zhao, Yian Shi\*



**NMR Studies and electrophilic properties of triphenylphosphine–trifluoromethanesulfonic anhydride; a remarkable dehydrating reagent system for the conversion of aldoximes into nitriles**

pp 1826–1831

Ziad Moussa\*, Saleh A. Ahmed, Ahmad S. ElDouhaibi, Shaya Y. Al-Raqa

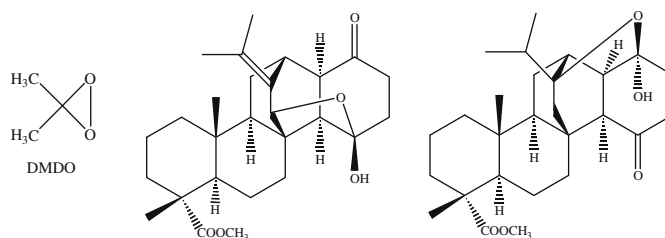


The electrophilic properties of triphenyl(trifluoromethylsulfonyloxy)phosphonium trifluoromethanesulfonate and its corresponding bis(triphenyl)oxodiphosphonium trifluoromethanesulfonate dimer system have been exploited in the development of a mild method for converting aldoximes into nitriles.

**Synthesis of nontrivial quinopimaric acid derivatives by oxidation with dimethyldioxirane**

pp 1832–1835

Oxana B. Kazakova\*, Elena V. Tretyakova, Olga S. Kukovinets, Albina R. Abdrakhmanova, Nataliya N. Kabalnova, Dmitri V. Kazakov, Genrikh A. Tolstikov, Aidar T. Gubaidullin

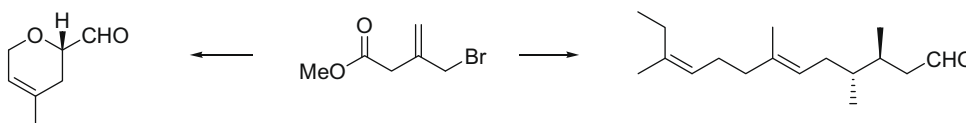


Dimethyldioxirane (DMDO) is employed under mild conditions to achieve the regioselective direct synthesis of valuable and previously inaccessible oxyfunctionalized derivatives of dihydroquinopimaric acid.

**Methyl 3-bromomethyl-3-butenolate as an isopentane building block for the stereoselective preparation of (*S*)-4-methyl-3,6-dihydro-2*H*-pyran-2-carbaldehyde and (+)-faranal**

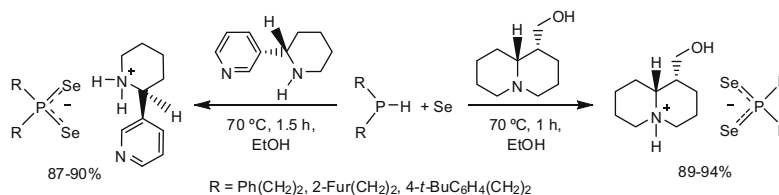
pp 1836–1839

Iryna V. Mineyeva, Oleg G. Kulinkovich\*


**Diselenophosphinates of lupinine or anabasine via a new three-component reaction of secondary phosphines, elemental selenium, and amines**

pp 1840–1843

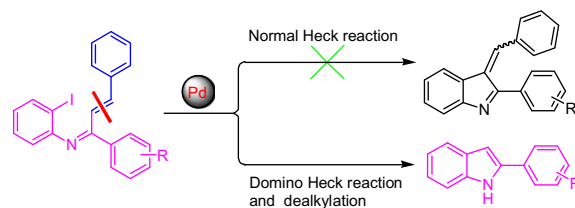
Nina K. Gusarova, Alexander V. Artem'ev, Svetlana F. Malysheva, Sergei V. Fedorov, Olga N. Kazheva, Grigori G. Alexandrov, Oleg A. Dyachenko, Boris A. Trofimov\*



**Synthesis of 2-substituted indoles via a palladium-catalyzed domino Heck reaction and dealkylation**

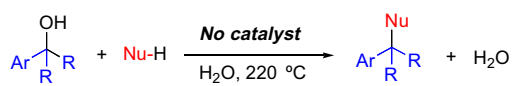
pp 1844–1846

Hui Mao, Jie-Ping Wan, Yuanjiang Pan, Cuirong Sun\*

**Direct benzylation and allylic alkylation in high-temperature water without added catalysts**

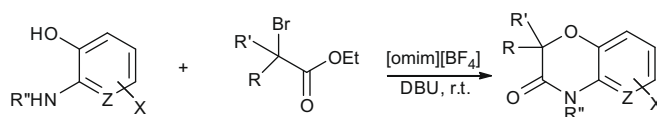
pp 1847–1851

Tsunehisa Hirashita\*, Shō Kuwahara, Sota Okochi, Makoto Tsuji, Shuki Araki

**[Omim][BF<sub>4</sub>], a green and recyclable ionic liquid medium for the one-pot chemoselective synthesis of benzoxazinones**

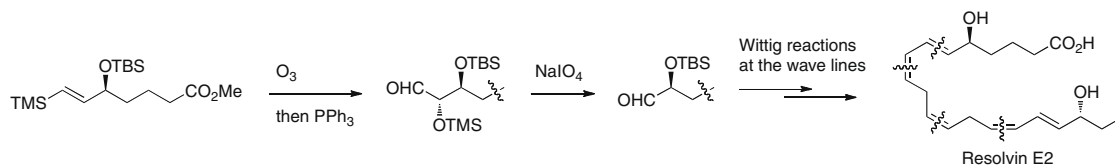
pp 1852–1855

Ali Sharifi\*, Mehdi Barzandeh, M. Saeed Abaee, Mojtaba Mirzaei

**Total synthesis of resolvin E2**

pp 1856–1859

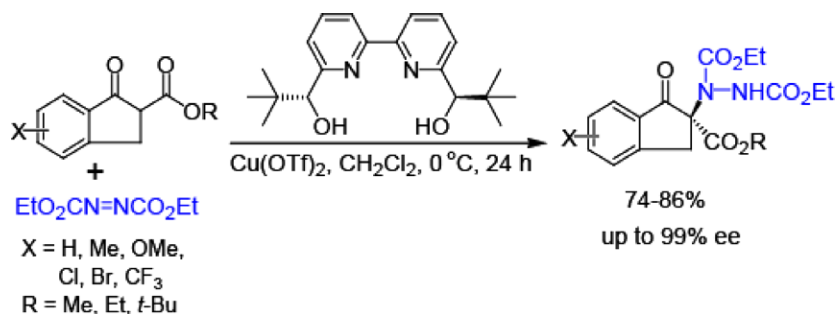
Yusuke Kosaki, Narihito Ogawa, Yuichi Kobayashi\*



**Copper–bipyridine-catalyzed enantioselective  $\alpha$ -amination of  $\beta$ -keto esters**

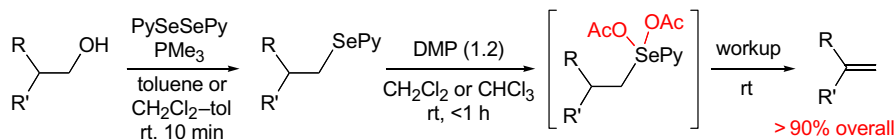
pp 1860–1862

Subrata Ghosh, Mecheril Valsan Nandakumar, Harald Krautscheid, Christoph Schneider\*

**Reaction of Dess–Martin periodinane with 2-(alkylselenyl)pyridines. Dehydration of primary alcohols under extraordinarily mild conditions**

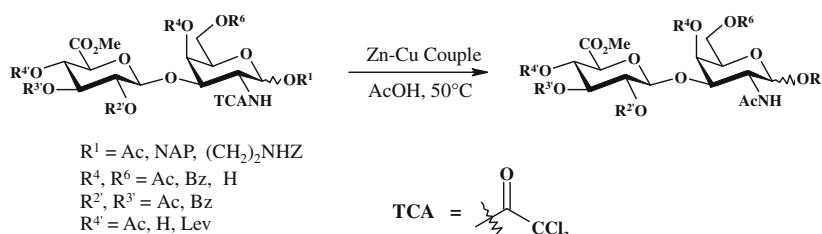
pp 1863–1866

Thanos Andreou, Jordi Burés, Jaume Vilarrasa\*

**Efficient alternative for the reduction of *N*-trichloroacetyl groups in synthetic chondroitin oligosaccharide intermediates**

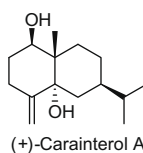
pp 1867–1869

Aude Vibert, Chrystel Lopin-Bon, Jean-Claude Jacquinet\*

An efficient alternative for the reduction of *N*-trichloroacetyl groups in synthetic chondroitin oligosaccharide intermediates is reported.**First total synthesis of (+)-Carainterol A**

pp 1870–1872

Kaiqing Ma, Chunbo Zhang, Mingming Liu, Yong Chu, Lu Zhou, Changqi Hu, Deyong Ye\*

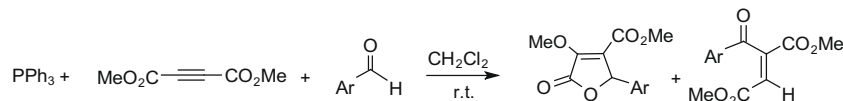


The first, stereospecific, and elegant synthesis of the natural product (+)-Carainterol A was developed by using the Robinson annulation reaction as a key step to build the eudesmane skeleton.



**Triphenylphosphine-catalysed one-pot synthesis of  $\gamma$ -butyrolactone derivatives and highly substituted enones via reaction of dimethyl acetylenedicarboxylate and aryl aldehydes** pp 1873–1875

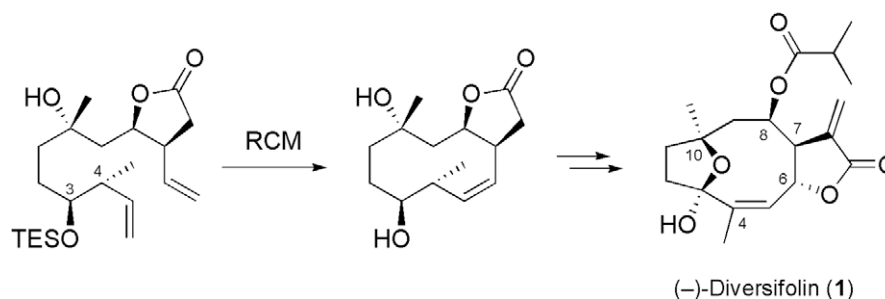
Mohammad Bayat\*, Hossein Imanieh, Fatemeh Hassanzadeh



**Second-generation total synthesis of (–)-diversifolin**

pp 1876–1879

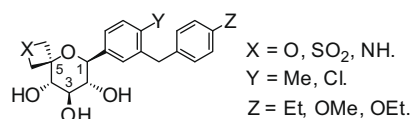
Kazuma Tsuboi, Tomoaki Nakamura, Takahiro Suzuki, Atsuo Nakazaki, Susumu Kobayashi\*



**Syntheses of C-5-spirocyclic C-glycoside SGLT2 inhibitors**

pp 1880–1883

Vincent Mascitti\*, Ralph P. Robinson, Cathy Prévaille, Benjamin A. Thuma, Christopher L. Carr, Matthew R. Reese, Robert J. Maguire, Michael T. Leininger, André Lowe, Claire M. Stepan

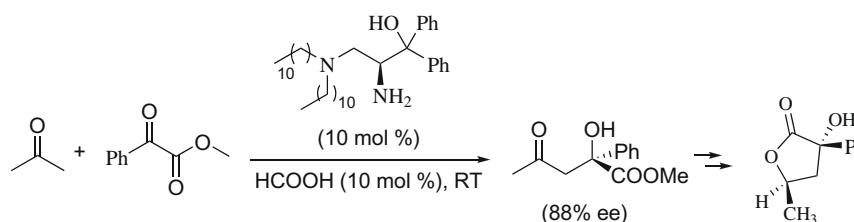


Several syntheses of C-5-spirocyclic-containing C-glycosides are discussed. A multigram-scale synthesis capitalizing on a one-pot aldol-Cannizzaro sequence is described. Spiro oxetane formation using an unprotected penta-ol C-glycoside as substrate is also exemplified.

**Direct asymmetric aldol reaction of acetone with  $\alpha$ -ketoesters catalyzed by primary–tertiary diamine organocatalysts**

pp 1884–1886

Zhaoqin Jiang, Yixin Lu\*



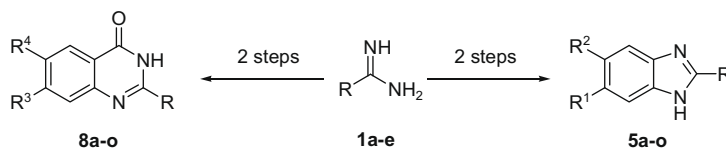
A novel primary–tertiary diamine organocatalyst-promoted enantioselective aldol reaction of acetone with  $\alpha$ -ketoesters is described.



**Catalyst/ligand-free synthesis of benzimidazoles and quinazolinones from amidines via intramolecular transamination reaction**

pp 1887–1890

Sahaj Gupta, Piyush K. Agarwal, Bijoy Kundu\*

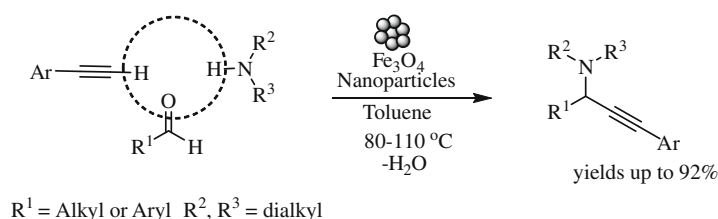


An efficient catalyst/ligand-free synthesis of benzimidazoles and quinazolinones from amidines in quantitative yields has been described.

**Magnetically separable Fe<sub>3</sub>O<sub>4</sub> nanoparticles: an efficient catalyst for the synthesis of propargylamines**

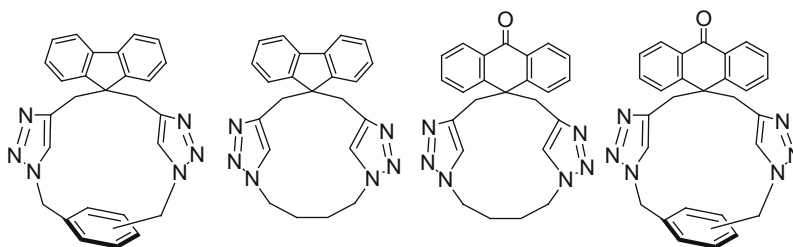
pp 1891–1895

B. Sreedhar\*, A. Suresh Kumar, P. Surendra Reddy


**An efficient one-pot synthesis of C<sub>2</sub>-symmetric triazolophanes by copper(I)-catalyzed azide-alkyne cycloaddition (CuAAC) reaction**

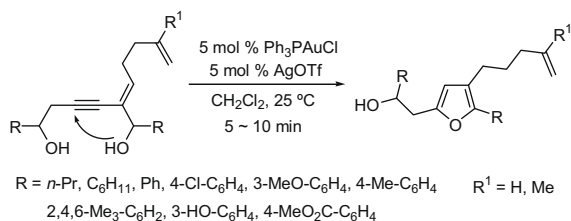
pp 1896–1898

R. Rajesh, G. Periyasami, R. Raghunathan\*


**Gold-catalyzed cyclization of enyne-1,6-diols to substituted furans**

pp 1899–1901

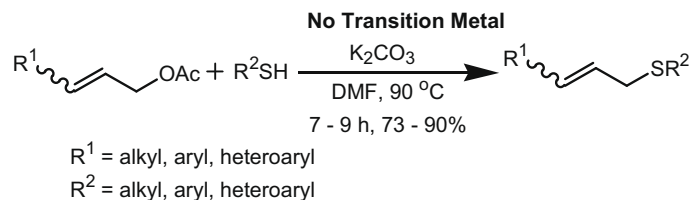
Sundae Kim, Dongjin Kang, Seunghoon Shin, Phil Ho Lee\*



**Transition metal-free activation of allylic acetates toward regioselective S-allylation of thiols**

pp 1902–1905

Amit Saha, Brindaban C. Ranu\*

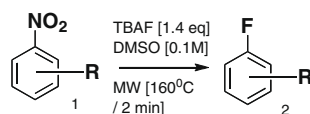


Allylic acetates have been used as allylating agents under transition metal-free condition toward an economical and sustainable regioselective S-allylation of aromatic and aliphatic thiols in the presence of potassium carbonate.

**Microwave-accelerated fluorodenitrations and nitrodehalogenations: expeditious routes to labeled PET ligands and fluoropharmaceuticals**

pp 1906–1909

Paul LaBeaume, Michael Placzek, Mathew Daniels, Ian Kendrick, Patrick Ng, Melissa McNeel, Roushan Afroze, Abigail Alexander, Rhiannon Thomas, Amy E. Kallmerten, Graham B. Jones\*

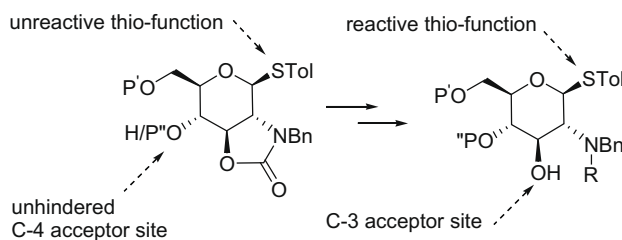


Methods for the expeditious fluorination of arenes have been investigated, using readily available fluoride sources. An optimized procedure for microwave-accelerated fluorodenitration has been developed, giving good to excellent yields in less than 10 min, rendering it practical for use in the preparation of F<sup>18</sup> labeled ligands for PET imaging. Application of the method in the synthesis of CNS agents is demonstrated, and a practical method for the preparation of substrates has been identified.

**Joined use of oxazolidinone and desymmetric amino protection: a new strategy for protection of glucosamine**

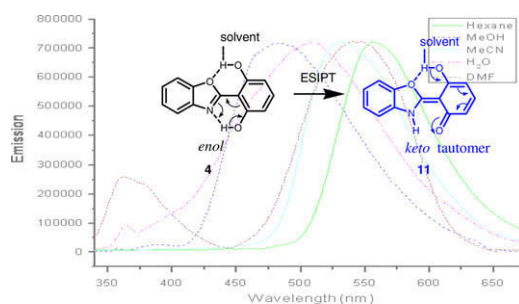
pp 1910–1913

Shih-Che Lin, Chin-Sheng Chao, Chiu-Ching Chang, Kwok-Kong T. Mong\*

**Excited-state intramolecular proton transfer in 2-(2',6'-dihydroxyphenyl) benzoxazole: effect of dual hydrogen bonding on the optical properties**

pp 1914–1918

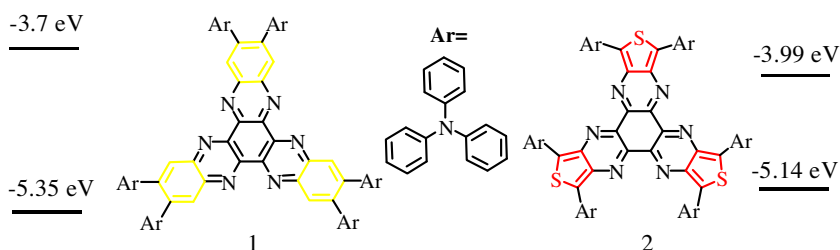
Wei-Hua Chen, Yi Pang\*



**Band gap tunable for near-infrared absorbing chromophores with multi-triphenylamine and tris (thieno)hexaazatriphenylenes acceptors**

pp 1919–1921

Baoxiang Gao\*, Defang Xia, Yanhou Geng, Yanxiang Cheng, Lixiang Wang\*

**OTHER CONTENTS****Corrigenda**

pp 1922–1924

\*Corresponding author

Supplementary data available via ScienceDirect

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®

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

ScienceDirect

ISSN 0040-4039