

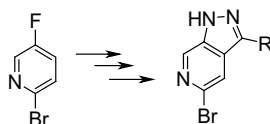
Tetrahedron Letters Vol. 50, No. 4, 2009

Contents

A facile method for the synthesis of substituted pyrazolo[3,4-c]pyridines

pp 383–385

Sharad K. Verma ^{*}, Louis V. LaFrance



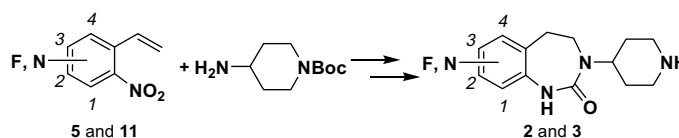
Methods are described for a facile high-yielding synthesis of substituted pyrazolo[3,4-c]pyridines from inexpensive commercially available starting materials.



Syntheses of aza and fluorine-substituted 3-(piperidin-4-yl)-4,5-dihydro-1H-benzo[d][1,3]diazepin-2(3H)-ones

pp 386–388

Xiaojun Han ^{*}, Rita L. Civiello, Stephen E. Mercer, John E. Macor, Gene M. Dubowchik



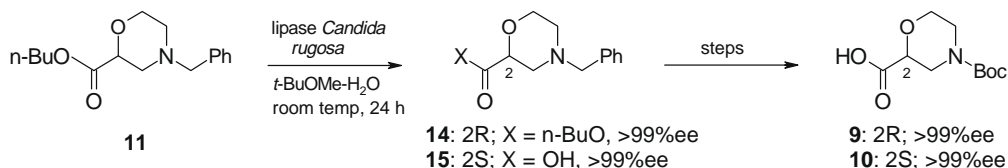
The title compounds **2** and **3** were formed in good to excellent overall yields by Michael addition of a primary amine to activated vinyl groups in **5** and **11**, by reduction ($-\text{NO}_2$ to $-\text{NH}_2$), cyclic urea formation, and Boc removal.



Enantioselective synthesis of (R)- and (S)-N-Boc-morpholine-2-carboxylic acids by enzyme-catalyzed kinetic resolution: application to the synthesis of reboxetine analogs

pp 389–391

Paul V. Fish ^{*}, Malcolm Mackenny ^{*}, Gerwyn Bish, Timothy Buxton, Russell Cave, David Drouard, David Hoople, Alan Jessiman, Duncan Miller, Christelle Pasquinet, Bhairavi Patel, Keith Reeves, Thomas Ryckmans, Melanie Skerten, Florian Wakenhut

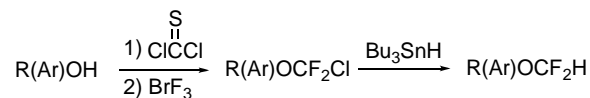


The (R)- and (S)-N-Boc-morpholine-2-carboxylic acids **9** and **10** were prepared using an enantioselective synthesis employing a highly selective enzyme-catalyzed kinetic resolution of racemic *n*-butyl 4-benzylmorpholine-2-carboxylate (**11**) as the key step.

A general route for constructing difluoromethyl ethers

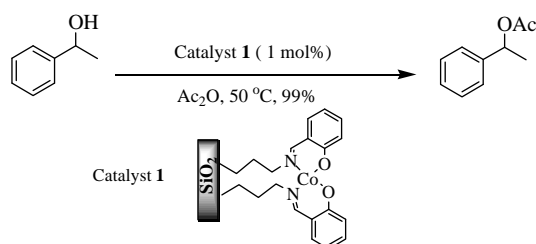
pp 392–394

Youlia Hagooly, Or Cohen, Shlomo Rozen *

**A heterogeneous cobalt(II) Salen complex as an efficient and reusable catalyst for acetylation of alcohols and phenols**

pp 395–397

Fatemeh Rajabi *

**Regioselective triphenylamine-tether-directed synthesis of [60]fullerene bis-adducts**

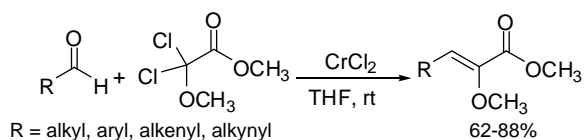
pp 398–401

Georgios Rotas, Nikos Tagmatarchis *

**Stereoselective synthesis of methyl (Z)-α-methoxyacrylates via two-carbon homologation of aldehydes**

pp 402–405

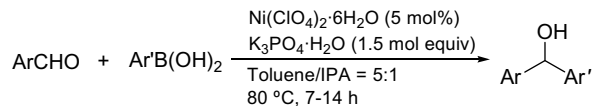
Rachid Baati *, Charles Mioskowski, Dhurke Kashinath, Sanjeevarao Kodepelly, Biao Lu, J. R. Falck *



Nickel salt-catalyzed addition reaction of arylboronic acids to aromatic aldehydes

pp 406–408

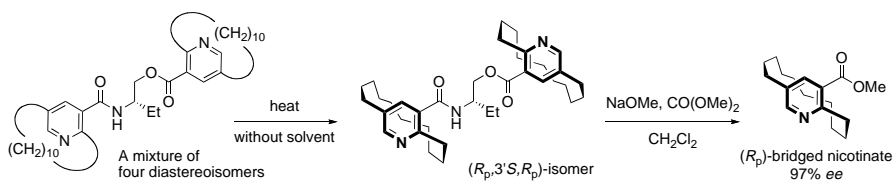
Li Zhou, Xin Du, Ren He, Zhenhua Ci, Ming Bao *



Synchronized stereocontrol of planar chirality by crystallization-induced asymmetric transformation

pp 409–412

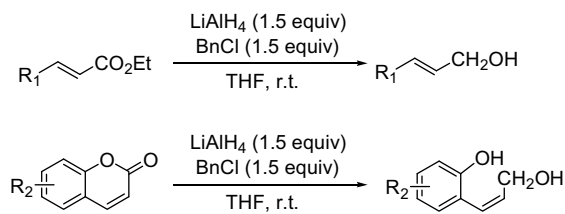
Nobuhiro Kanomata *, Gou Mishima, Jun Onozato



A novel and efficient procedure for the preparation of allylic alcohols from α,β -unsaturated carboxylic esters using $\text{LiAlH}_4/\text{BnCl}$

pp 413–415

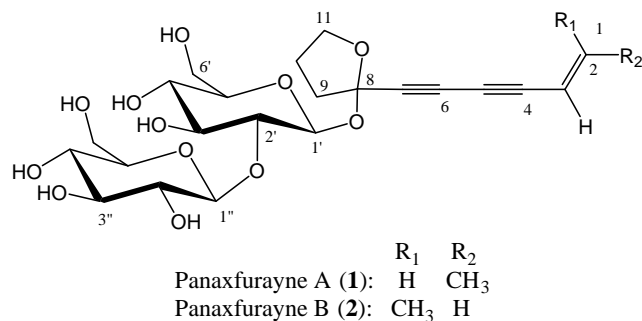
Xiaolong Wang *, Xiaodong Li, Jijun Xue, Yuling Zhao, Yumei Zhang



Panaxfuraynes A and B, two new tetrahydrofuranic polyacetylene glycosides from *Panax ginseng* C. A. Meyer

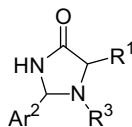
pp 416–418

Sang Myung Lee *, Ki Hwan Bae, Hyun Joo Sohn



Solid-phase synthesis of 1,2,5-trisubstituted imidazolidin-4-ones

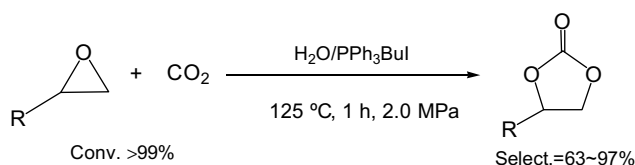
pp 419–422

Lan-Ying Qin ^{*}, Andrew G. Cole, Axel Metzger, Linda O'Brien, Xiling Sun, Jin Wu, Yan Xu, Kai Xu, Ying Zhang, Ian Henderson

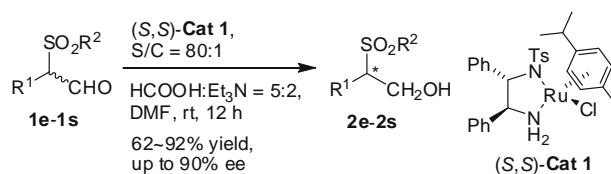
Reaction of an α -amino amide on solid support with an aldehyde in solution through a microwave-assisted condensation generates the corresponding resin-bound imidazolidin-4-one.

Water as an efficient medium for the synthesis of cyclic carbonate

pp 423–426

Jian Sun, Junyi Ren, Suojiang Zhang ^{*}, Weiguo Cheng**Dynamic kinetic resolution of racemic α -sulfonylaldehydes via asymmetric transfer hydrogenation**

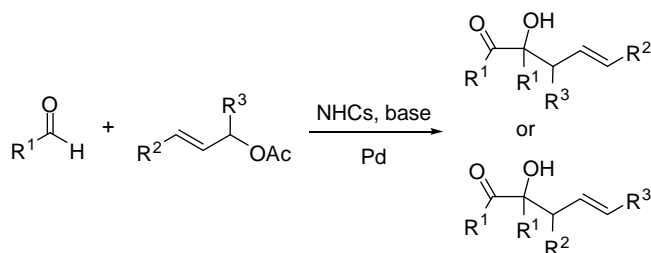
pp 427–429

Guofeng Wu, Jinlong Zhu, Zhenhua Ding, Zongxuan Shen, Yawen Zhang ^{*}

Hydrogen transfer reduction of α -sulfonylaldehydes using HCOOH–Et₃N system as the hydrogen source and (S,S)-TsDPEN-based Ru(II) as catalyst proceeds with DKR, providing optically active β -sulfonyl primary alcohols in moderate-to-good yields and up to 90% ee.

**Assembly of functionalized α -hydroxy carbonyl compounds via combination of N-heterocyclic carbene and Pd catalysts**

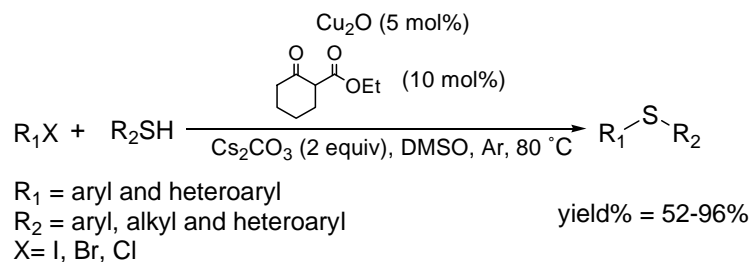
pp 430–433

Jinmei He, Shibing Tang, Shouchu Tang, Jian Liu, Yongquan Sun, Xinfu Pan, Xuegong She ^{*}

Efficient C–S cross coupling catalyzed by Cu₂O

pp 434–437

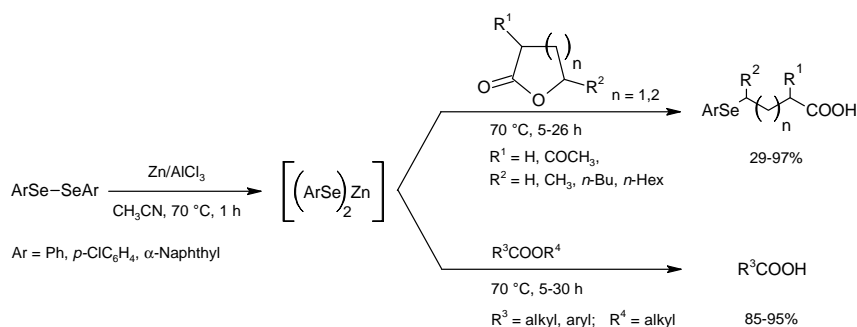
Hua-Jian Xu, Xiao-Yang Zhao, Jin Deng, Yao Fu *, Yi-Si Feng *



Nucleophilic cleavage of lactones and esters with zinc selenolates prepared from diselenides in the presence of Zn/AlCl₃

pp 438–441

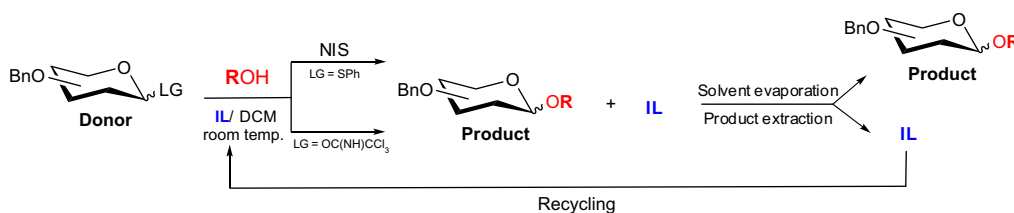
Mohammad Nazari, Barahman Movassagh *



[bmim][OTf]: a versatile room temperature glycosylation promoter

pp 442–445

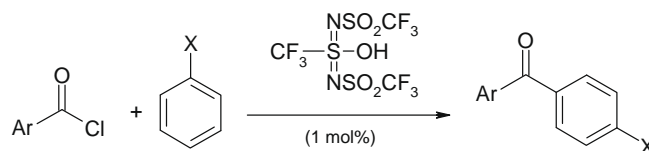
M. Carmen Galan *, Claire Brunet, Monica Fuensanta



A novel Brønsted acid catalyst for Friedel–Crafts acylation

pp 446–447

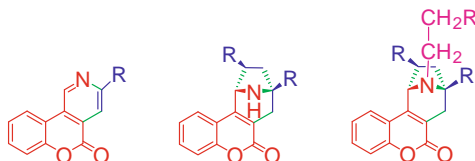
Anna G. Posternak, Romute Yu. Garlyauskayte *, Lev M. Yagupolskii



Unexpected one-pot synthesis of new polycyclic coumarin[4,3-c]pyridine derivatives via a tandem hetero-Diels–Alder and 1,3-dipolar cycloaddition reaction

pp 448–451

Daman R. Gautam, John Protopappas, Konstantina C. Fylaktakidou, Konstantinos E. Litinas*, Demetrios N. Nicolaides*, Constantinos A. Tsoleridis*

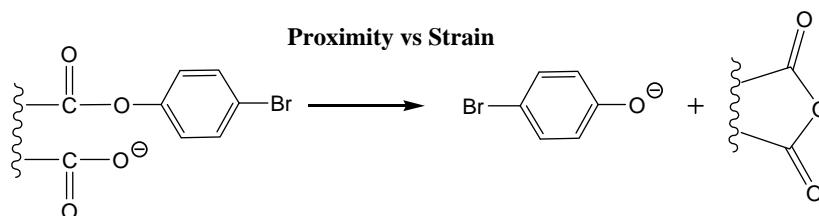


O-Methyl-4-coumarincarboxaldehyde oxime reacted with electron-deficient and electron-rich dienophiles to give, in one step, coumarin[4,3-c]pyridine derivatives. The regio- and stereoselectivities of the new compounds correspond well with spectroscopic and theoretical data. A possible mechanistic scheme is provided.

Reevaluation of Bruce's proximity orientation

pp 452–456

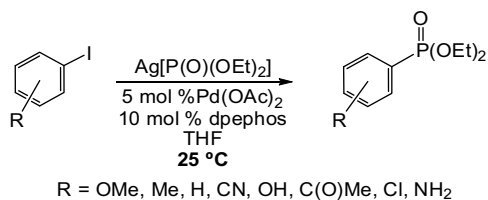
Rafik Karaman*



Development of a room temperature Hirao reaction

pp 457–459

Mark C. Kohler, Joseph G. Sokol, Robert A. Stockland Jr.*



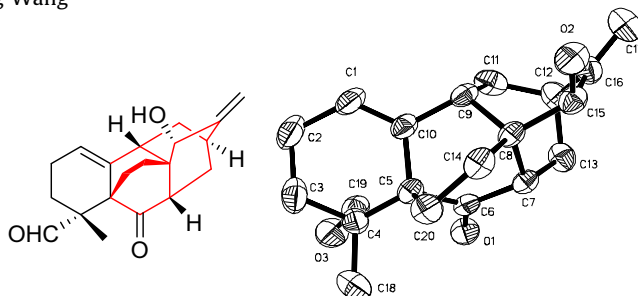
Arylphosphonates were prepared at 25 °C though the palladium catalyzed coupling of aryl iodides with a silver phosphonate.



Atropurpuran, a novel diterpene with an unprecedented pentacyclic cage skeleton, from *Aconitum hemsleyanum* var. *atropurpureum*

pp 460–462

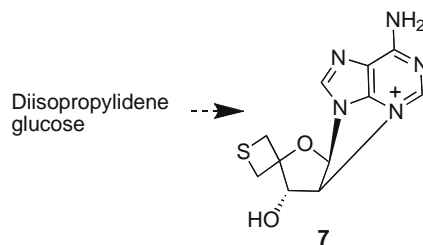
Pei Tang, Qiao-Hong Chen, Feng-Peng Wang*



Synthesis of a 4',4'-spirothietane-2', N³-cycloadenosine as a highly constrained analogue of 5'-deoxy-5'-methylthioadenosine (MTA)

pp 463–466

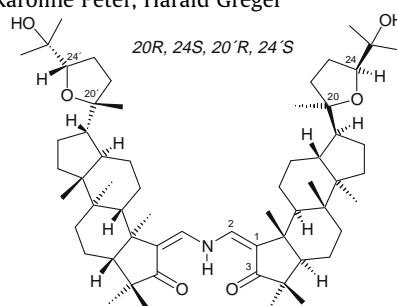
Gustavo S. G. De Carvalho, Jean-Louis Fourrey, Robert H. Dodd, Adilson D. Da Silva *



Silvaglenamin—a novel dimeric triterpene alkaloid from *Aglaia silvestris*

pp 467–468

Otmar Hofer *, Silvia Pointinger, Lothar Brecker, Karoline Peter, Harald Greger *

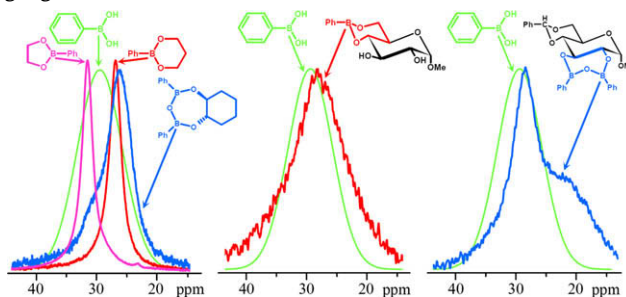


An unusual dimeric triterpene structure with two dammarane units linked with an aminic –NH– group was isolated from *Aglaia silvestris*.

Seven-membered ring boronates at *trans*-diol moieties of carbohydrates

pp 469–472

Marcel Meiland, Thomas Heinze, Wolfgang Guenther, Tim Liebert *



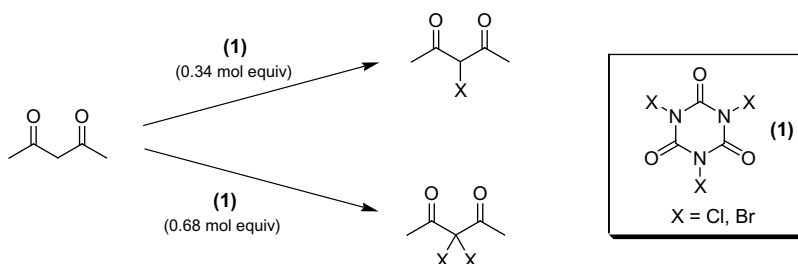
MS and NMR results are presented revealing the formation of seven-membered boronates at *trans*-1,2-diol moieties of carbohydrates, which can provide opportunities for activation, protection and analysis of glucopyranose-based oligo- and polymers.



Trihaloisocyanuric acids as convenient reagents for regioselective halogenation of β -dicarbonyl compounds

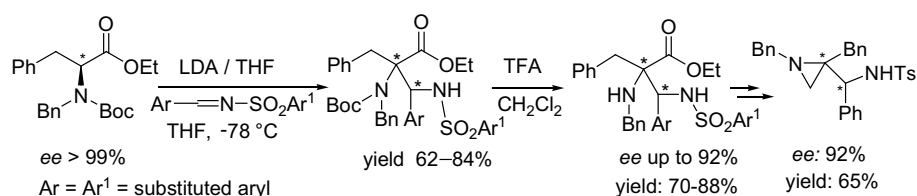
pp 473–475

Gabriela F. Mendonça, Haryadylla C. Sindra, Leonardo S. de Almeida, Pierre M. Esteves *, Marcio C. S. de Mattos *

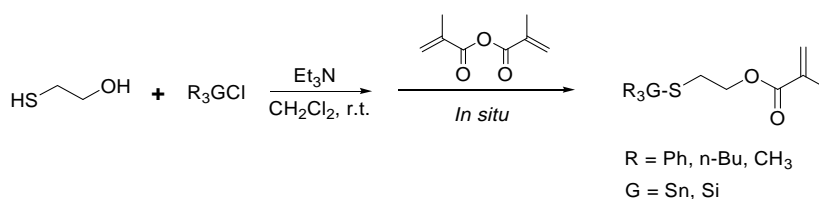


Enantioselective synthesis of α,β -diamino ester derivatives: memory of chirality in imino-aldol reactions

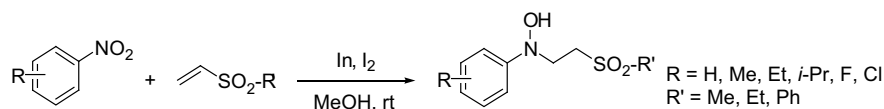
pp 476–479

Manas K. Ghorai ^{*}, Koena Ghosh, A. K. Yadav**A new strategy for chemoselective O-acylation of β -mercapto alcohols via alkylsilyl and stannyl protection**

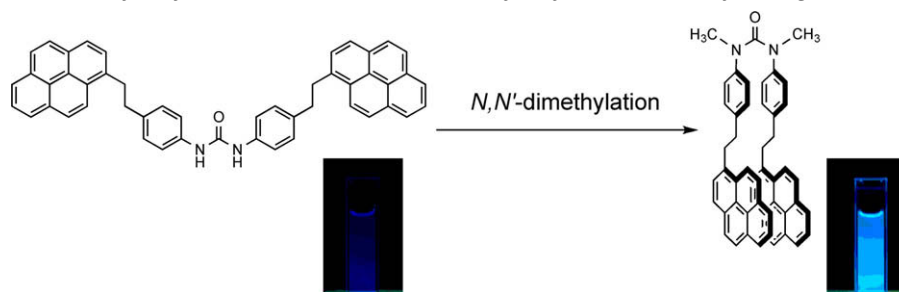
pp 480–483

Muchchintala Maheswara, Mirae Kim, Sun-Ju Yun, Jung Jin Ju, Jung Yun Do ^{*}**2-(*N*-Hydroxylamino) sulfone synthesis by indium–iodine-triggered aza-Michael type addition of nitroarenes to vinyl sulfones**

pp 484–487

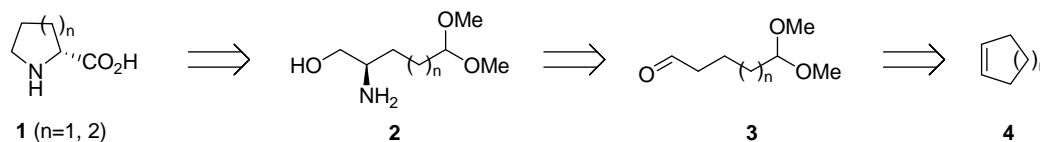
Sun Jung Lee, Jung June Lee, Chong-Hyeak Kim, Young Moo Jun, Byung Min Lee, Byeong Hyo Kim ^{*}**Fluorescent visualization of the conformational change of aromatic amide or urea induced by *N,N*-methylation**

pp 488–491

Tomoya Hirano, Takashi Osaki, Shinya Fujii, Daisuke Komatsu, Isao Azumaya, Aya Tanatani, Hiroyuki Kagechika ^{*}Intramolecular excimer formation of pyrene substituents in aromatic *cis*-amide or *cis*-urea enables fluorescent visualization of *trans*/*cis* conformational change.

Efficient syntheses of enantioenriched (*R*)-pipercolic acid and (*R*)-proline via electrophilic organocatalytic amination pp 492–494

Delphine Kalch, Nicolas De Rycke, Xavier Moreau, Christine Greck *



Five-step syntheses of (*R*)-pipercolic acid and (*R*)-proline are described, respectively, from cyclohexene and cyclopentene. The key step involves the organocatalytic α -amination of functionalized aldehydes.

*Corresponding author

+ Supplementary data available via ScienceDirect

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