

Tetrahedron Letters Vol. 50, No. 31, 2009

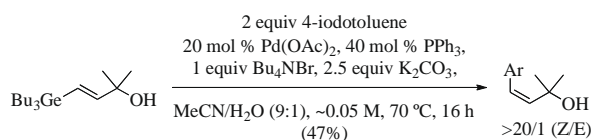
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COMMUNICATIONS

Reactions of vinyltributylgermanes and aryl halides under Heck conditions

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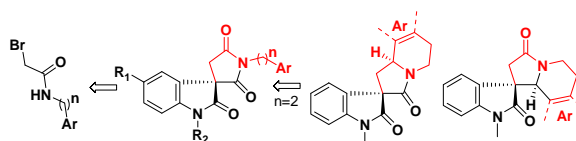
Nicole M. Torres, Jérôme M. Lavis, Robert E. Maleczka Jr. *



Toward the improvement of the tandem halide displacement/amide coupling spiro-cyclization as a new route to γ -lactam and pyrroloisoquinoline templates

pp 4411–4415

Iyad Allous, Sébastien Comesse *, Dušan Berkeš, Amar Alkyat, Adam Daïch *

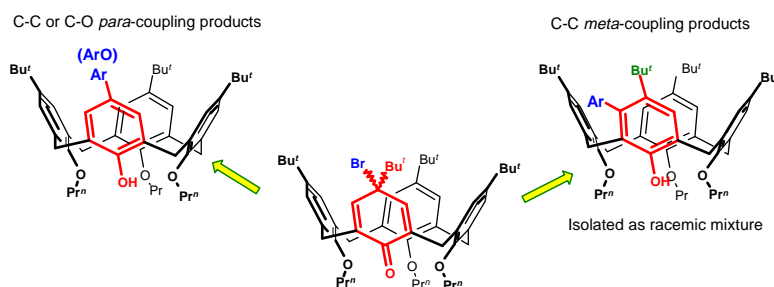


Two expedient approaches for the synthesis of spiro-oxindoles containing succinimide were investigated. From these results, the tandem halide displacement/amide coupling spiro-cyclization approach that extends our recent findings in this subject seems to be simple and effective. The spiro-cyclic systems obtained were then used to provide spiro-oxindoles containing γ -lactams and pyrroloisoquinolines by using reduction processes followed or not by π -cationic cyclization in acidic medium.

Appending aromatic moieties at the *para*- and *meta*-position of calixarene phenol rings via *p*-bromodienone route

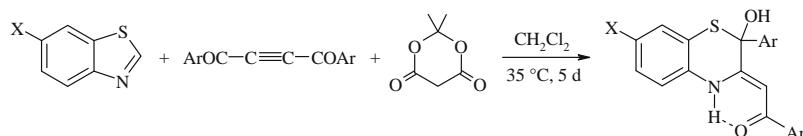
pp 4416–4419

Francesco Troisi, Teresa Pierro, Carmine Gaeta *, Michele Carratù, Placido Neri *



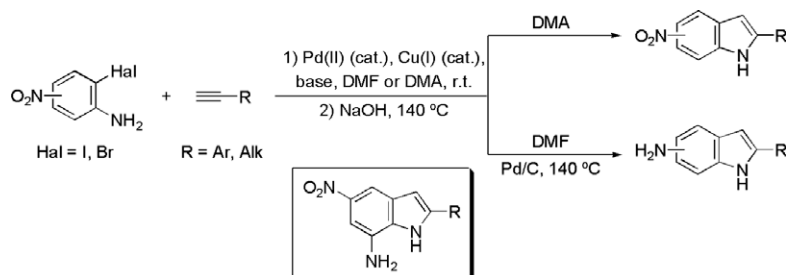
A novel reaction between benzothiazoles and diarylacetylenes in the presence of Meldrum's acid: ring expansion of benzothiazoles to functionalized 1,4-benzothiazines pp 4420–4422

Mehdi Adib *, Esmail Sheibani, Long-Guan Zhu, Hamid Reza Bijanzadeh



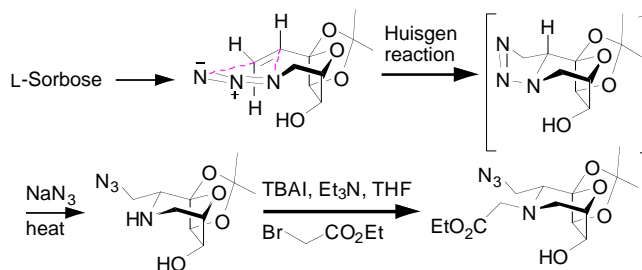
Straightforward selective preparation of nitro- or amino-indoles from 2-halonitroanilines and alkynes. First synthesis of 7-amino-5-nitroindoles pp 4423–4426

Roberto Sanz *, Verónica Guilarte, Antonio Pérez



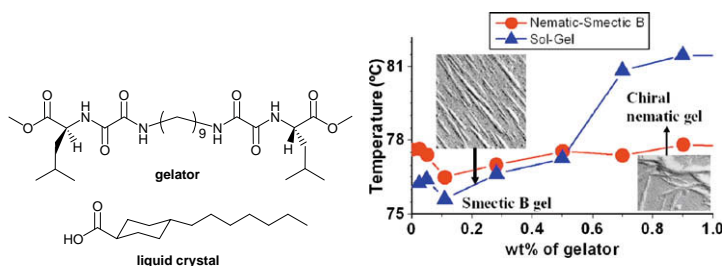
Synthesis of a constrained polyfunctional bicyclic iminocyclitol scaffold from L-sorbose via a tandem sequence including stereoselective intramolecular Huisgen cycloaddition pp 4427–4429

Ciaran O'Reilly, Colin O'Brien, Paul V. Murphy *



Controlled self-assembly of chiral gelator molecules into aligned fibers induced by nematic to smectic B phase transitions pp 4430–4434

Nataša Šijaković Vujičić, Maja Šepelj, Andreja Lesac, Mladen Žinić *



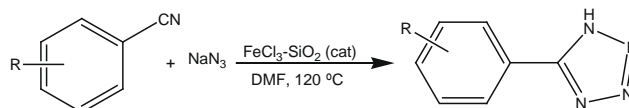
The liquid crystalline gel system represents an example of controlled self-assembly induced by liquid crystalline phase transitions.



FeCl₃-SiO₂ as a reusable heterogeneous catalyst for the synthesis of 5-substituted 1H-tetrazoles via [2+3] cycloaddition of nitriles and sodium azide

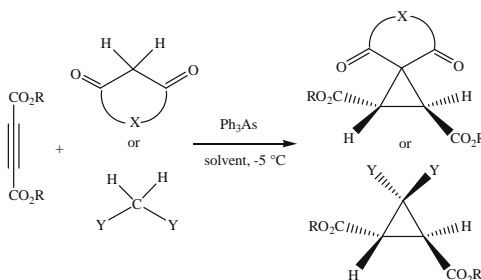
pp 4435–4438

Mahmoud Nasrollahzadeh *, Yadollah Bayat, Davood Habibi, Saeed Moshae

**Highly stereoselective construction of functionalized cyclopropanes from the reaction between acetylenic esters and C-H acids in the presence of triphenylarsine**

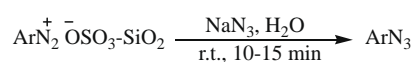
pp 4439–4442

Malek Taher Maghsoodlou *, Sayyed Mostafa Habibi Khorassani, Reza Heydari, Faramarz Rostami Charati, Nourollah Hazeri, Mojtaba Lashkari, Mohsen Rostamizadeh, Ghasem Marandi, Alexandre Sobolev, Mohamed Makha

**A fast and efficient method for the preparation of aryl azides using stable aryl diazonium silica sulfates under mild conditions**

pp 4443–4445

Amin Zarei *, Abdol R. Hajipour, Leila Khazdooz, Hamidreza Aghaei

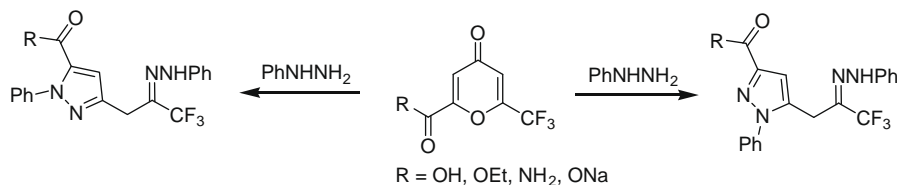


An efficient, fast, and straightforward procedure for the synthesis of aromatic azides using aryl diazonium silica sulfates and sodium azide at room temperature under mild conditions is described.

Regioselective solvent-sensitive reactions of 6-(trifluoromethyl)comanic acid and its derivatives with phenylhydrazine

pp 4446–4448

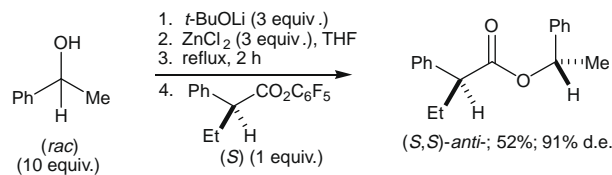
Boris I. Usachev *, Dmitrii L. Obydenov, Mikhail I. Kodess, Vyacheslav Ya. Sosnovskikh



Resolution of secondary arylalkyl alcohols using pentafluorophenyl 2-phenylbutanoate and zinc chloride

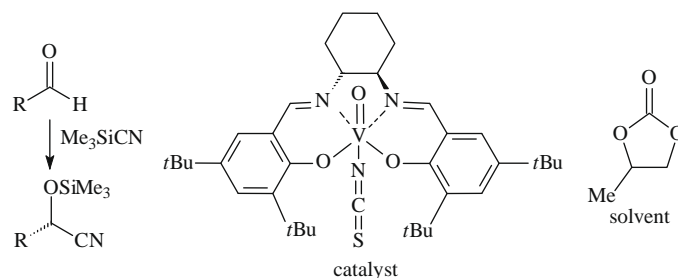
pp 4449–4451

Elliot Coulbeck, Jason Eames *

**Catalytic, asymmetric cyanohydrin synthesis in propylene carbonate**

pp 4452–4454

Michael North *, Marta Omedes-Pujol

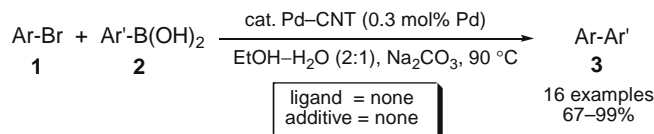


Propylene carbonate can be used as an environmentally friendly, non-chlorinated solvent for asymmetric cyanohydrin synthesis catalyzed by a vanadiummoxo(salen) complex.

Pd-CNT-catalyzed ligandless and additive-free heterogeneous Suzuki–Miyaura cross-coupling of aryl bromides

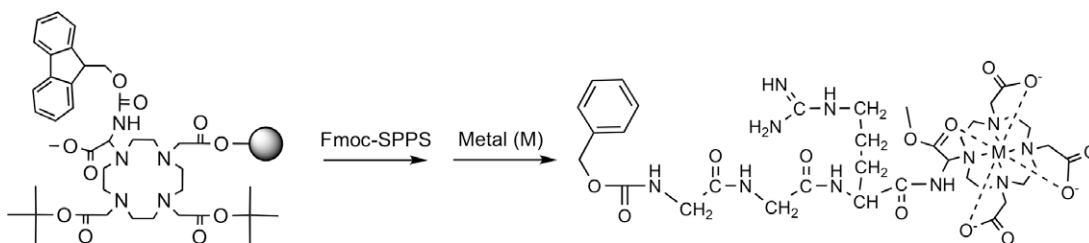
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Pei-Pei Zhang, Xin-Xing Zhang, Hui-Xia Sun, Run-Hua Liu, Bing Wang *, Yang-Hui Lin *

**An amine-derivatized, DOTA-loaded polymeric support for Fmoc solid phase peptide synthesis**

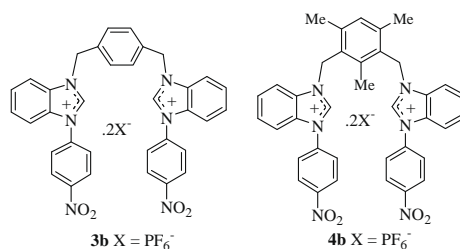
pp 4459–4462

Byunghye Yoo, Vipul R. Sheth, Mark D. Pagel *



1-(4-Nitrophenyl)-benzimidazolium-based ratiometric chromogenic probes for cyanide ion

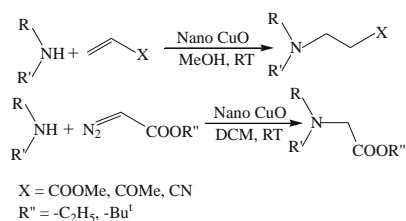
pp 4463–4466

Subodh Kumar ^{*}, Sandeep Kumar

1,4- and 1,3-bis-[1-(4-nitrophenyl)-benzimidazolium-3-methylene]benzene derivatives **3b** and **4b** elaborate ratiometric chromogenic probes for the estimation of 1–270 μM cyanide ion.

Nanocrystalline copper(II) oxide catalyzed aza-Michael reaction and insertion of α-diazo compounds into N–H bonds of amines

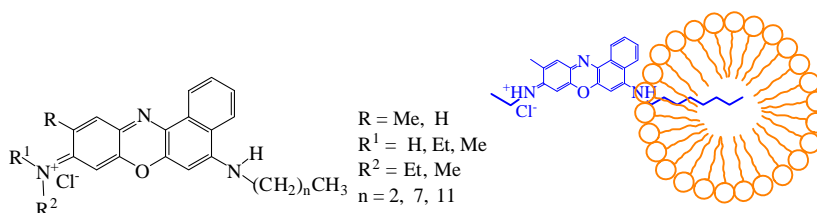
pp 4467–4469

M. Lakshmi Kantam ^{*}, Soumi Laha, Jagjit Yadav, Shailendra Jha

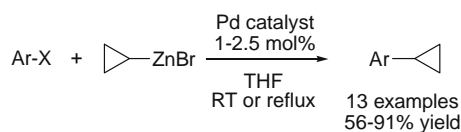
Nanocrystalline copper(II) oxide efficiently catalyzes the conjugate addition of aliphatic amines to α,β-unsaturated compounds to produce β-amino compounds with excellent yields under mild reaction conditions. Similarly, Glycine esters are obtained in good yields by the insertion of α-diazoacetate into N–H bonds of amines. The catalyst is used for three cycles with minimal loss of activity in both the reactions.

New long alkyl side-chain benzo[a]phenoxazines as micellisation probes

pp 4470–4474

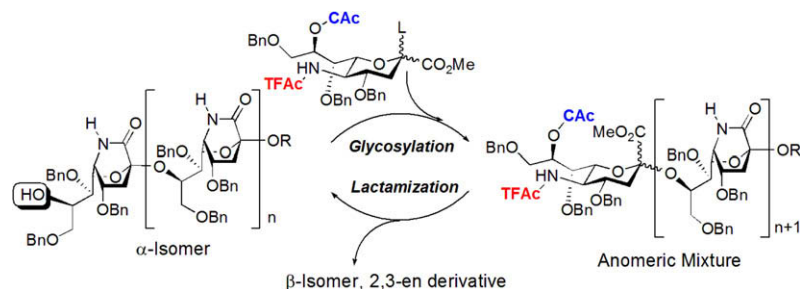
Carla M. A. Alves, Sarala Naik, Paulo J. G. Coutinho, M. Sameiro T. Gonçalves ^{*}**General and user-friendly protocol for the synthesis of functionalized aryl- and heteroaryl-cyclopropanes by Negishi cross-coupling reactions**

pp 4475–4477

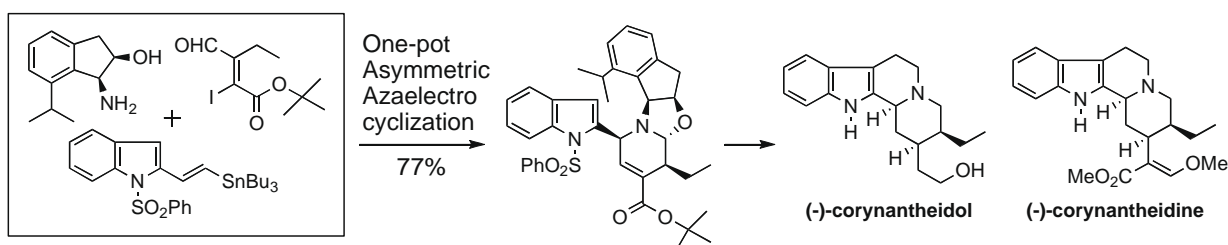
Brian M. Coleridge, Charles S. Bello, Andreas Leitner ^{*}

Synthetic study on $\alpha(2\rightarrow8)$ -linked oligosialic acid employing 1,5-lactamization as a key step

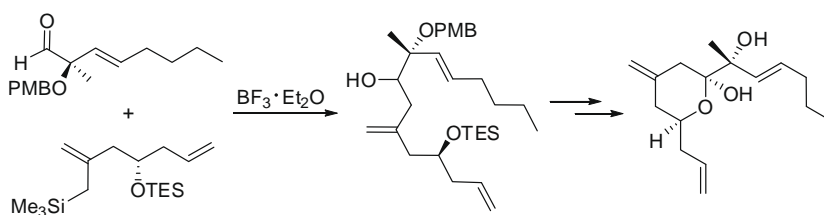
pp 4478–4481

Hidenori Tanaka, Hiromune Ando ^{*}, Hideharu Ishida, Makoto Kiso, Hideharu Ishihara, Mamoru Koketsu ^{*}**Synthesis of indole alkaloid (-)-corynantheidol and formal synthesis of (-)-corynantheidine via one-pot asymmetric azaelectrocyclization**

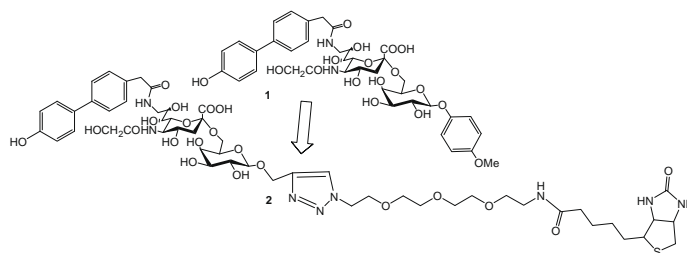
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Yanwu Li, Toyoharu Kobayashi, Shigeo Katsumura ^{*}**Stereoselective synthesis of iriomoteolide-1a hemiketal core**

pp 4485–4487

Jun Xie, David A. Horne ^{*}**Synthesis of biotinylated sialoside to probe CD22–ligand interactions**

pp 4488–4491

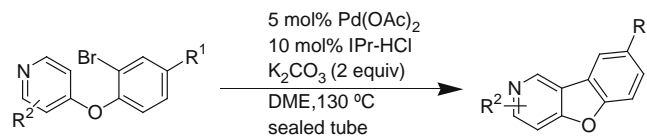
Hajjaj H. M. Abdu-Allah ^{*}, Kozo Watanabe, Koji Hayashizaki, Yuki Iwayama, Hiromu Takematsu, Yasunori Kozutsumi, Takeshi Tsubata, Hideharu Ishida, Makoto Kiso ^{*}

Biotin tagged CD22–ligand was designed and synthesized as a valuable tool for analysis of CD22 interactions and generation of B cell-binding materials.

Facile synthesis of benzo[4,5]furo[3,2-c]pyridines via palladium-catalyzed intramolecular Heck reaction

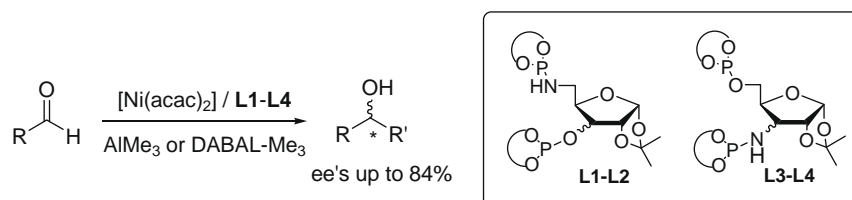
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Woo Sub Yoon, Su Jung Lee, Seung Kyu Kang, Deok-Chan Ha, Jae Du Ha *

**Furanoside phosphite–phosphoramidite: new ligand class for the asymmetric nickel-catalyzed trialkylaluminium addition to aldehydes**

pp 4495–4497

Eva Raluy, Montserrat Diéguez *, Oscar Pàmies *

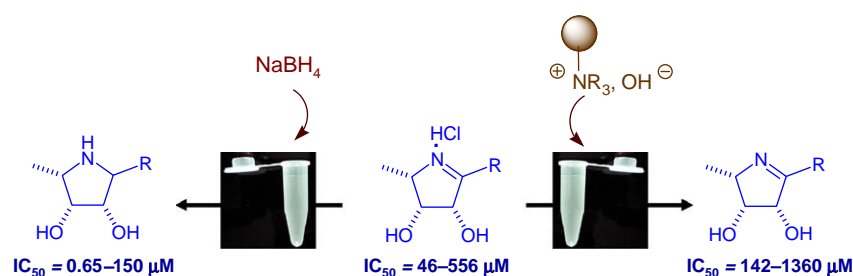


We describe the first successful application of bidentate ligands in the asymmetric Ni-catalyzed trialkylaluminium addition to several aldehydes. After systematic variation of the ligand parameters enantioselectivities up to 84% and high yields were obtained.

Synthesis and L-fucosidase inhibitory activity of a new series of cyclic sugar imines—in situ formation and assay of their saturated counterparts

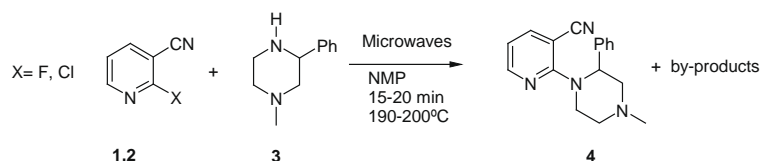
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Jean-Bernard Behr *

**Microwave-induced by-products in the synthesis of 2-(4-methyl-2-phenylpiperazinyl)pyridine-3-carbonitrile**

pp 4502–4505

Christelle Lamazzi *, Armelle Dreau, Christel Bufferne, Christine Flouzat, Patrick Carlier, Rob ter Halle, Thierry Besson *



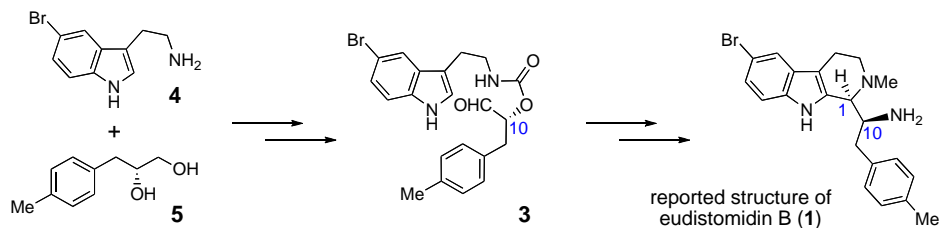
An industrial reaction of *N*-methylphenylpiperazine and chloronicotinonitrile was investigated under microwave heating.



Asymmetric total synthesis of reported structure of eudistomidin B, an indole alkaloid isolated from a marine tunicate

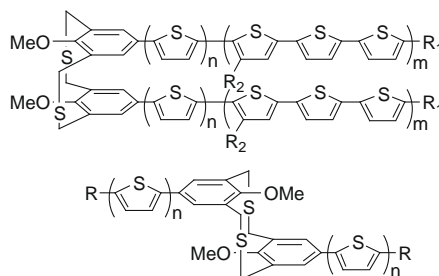
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Takeshi Ito, Mariko Kitajima, Hiromitsu Takayama *


Preparation of *syn* and *anti* cyclophanes having oligothiophene units and their spectral properties

pp 4509–4511

Akihiko Tsuge *, Takeshi Hara, Tetsuji Moriguchi

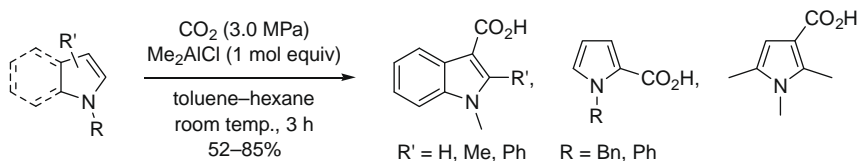


Syn and *anti* cyclophanes consisting of oligothiophene units have been synthesized for the first time.


Carboxylation of indoles and pyrroles with CO₂ in the presence of dialkylaluminum halides

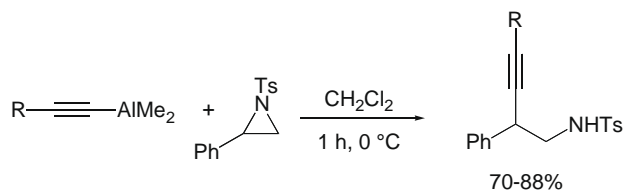
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Koji Nemoto, Satoru Onozawa, Naoki Egusa, Naoya Morohashi, Tetsutaro Hattori *


A practical regioselective ring-opening of activated aziridines with organoalanes

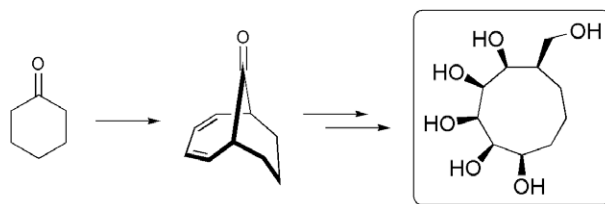
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Ferruccio Bertolini, Simon Woodward *, Stefano Crotti, Mauro Pineschi *

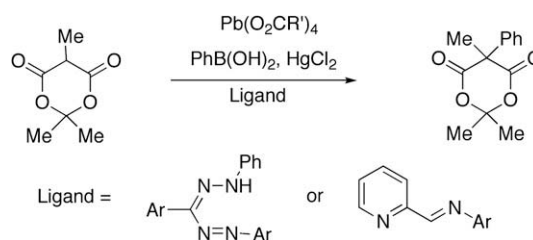


Cyclononitols: a flexible synthetic approach towards nine-membered carbasugar analogues

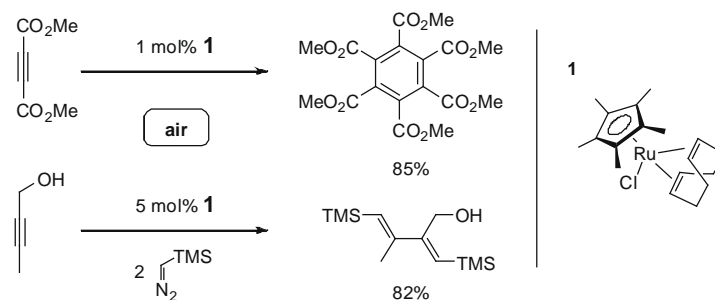
pp 4519–4522

Goverdhan Mehta ^{*}, Kotapalli Pallavi, Sreenivas Katukojvala**Arylations mediated by lead(IV) in the presence of formazan and imine ligands**

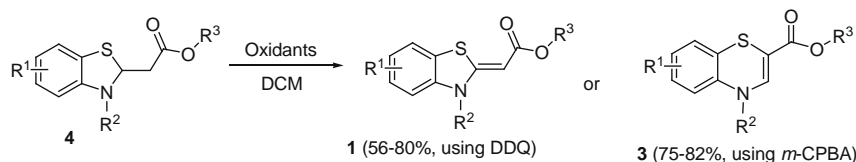
pp 4523–4525

Amjid Iqbal, Mark G. Moloney ^{*}, Hamid Latif Siddiqui, Amber L. ThompsonThe use of formazan and imine ligands in arylation of β -dicarbonyl systems by phenyl boronic acid/lead(IV) carboxylates is examined.**Air-tolerant C–C bond formation via organometallic ruthenium catalysis: diverse catalytic pathways involving (C₅Me₅)Ru or (C₅H₅)Ru are robust to molecular oxygen**

pp 4526–4528

Lukáš Severa, Jan Vávra, Anna Kohoutová, Martina Čížková, Tereza Šálová, Jakub Hývl, David Šaman, Radek Pohl, Louis Adriaenssens, Filip Teplý ^{*}**The facile synthesis of benzothiazolylideneacetates and 1,4-benzothiazines through a highly controllable oxidation of benzothiazolylacetates**

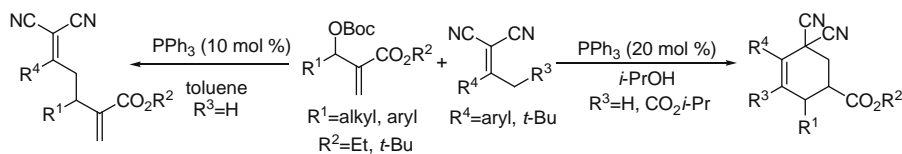
pp 4529–4531

Hong-Jun Pi, Hua Liu, Wenting Du ^{*}, Wei-Ping Deng ^{*}

Phosphine-catalyzed [3+3] annulation reaction of modified *tert*-butyl allylic carbonates and substituted alkylidenemalononitriles

pp 4532–4535

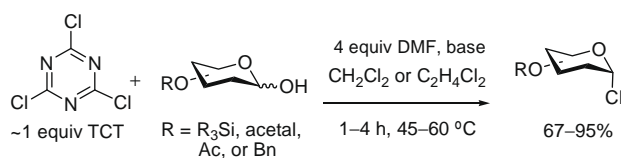
Suqing Zheng, Xiyan Lu *



A mild and general method for preparation of α -glycosyl chlorides

pp 4536–4540

Chih-Wei Chang, Shih-Sheng Chang, Chin-Sheng Chao, Kwok-Kong T. Mong *

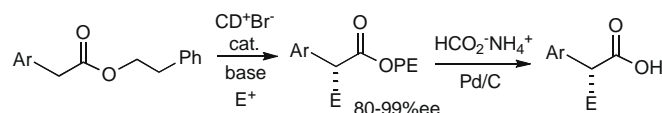


An efficient preparation of glycosyl chlorides with the use of inexpensive trichlorotriazine (TCT) and DMF is first described.

Phase-transfer catalyzed asymmetric arylacetate alkylation

pp 4541–4544

Merritt B. Andrus *, Kaid C. Harper, Michael A. Christiansen, Meisha A. Binkley

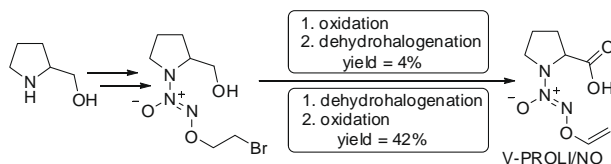


Phenethyl arylacetates are alkylated under phase-transfer conditions with cinchona catalysts.

An improved synthesis of V-PROLI/NO, a cytochrome P450-activated nitric oxide prodrug

pp 4545–4548

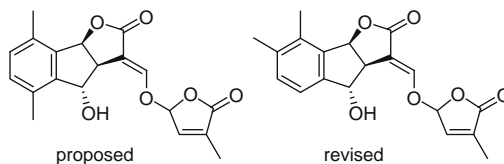
Sam Y. Hong, Rahul S. Nandurdikar, Larry K. Keefer, Joseph E. Saavedra *, Harinath Chakrapani *



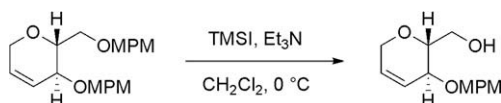
An improved synthesis of V-PROLI/NO, a cytochrome P450-activated nitric oxide prodrug, and synthesis of its sarcosine analogue are reported.

Synthetic disproof of the structure proposed for solanacol, the germination stimulant for seeds of root parasitic weeds

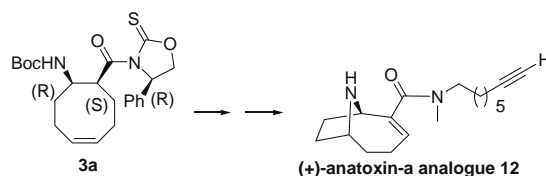
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Hirosato Takikawa ^{*}, Satoshi Jikumaru, Yukihiro Sugimoto, Xiaonan Xie, Koichi Yoneyama, Mitsuru Sasaki**Selective cleavage of primary MPM ethers with TMSI/Et₃N**

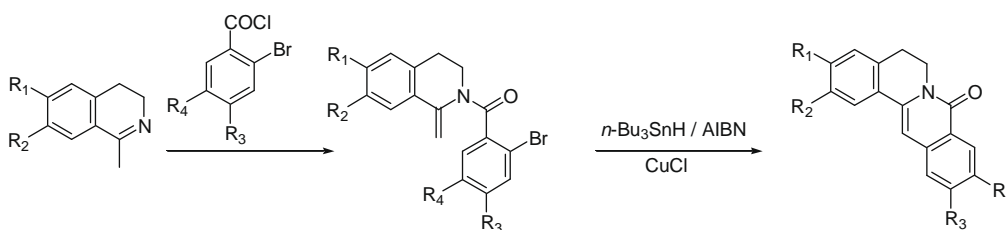
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Isao Kadota ^{*}, Yuji Yamagami, Naoya Fujita, Hiroyoshi Takamura**Synthesis of a (+)-anatoxin-a analogue for monoclonal antibodies production**

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Mickael Marc, Francis Outurquin, Pierre-Yves Renard, Christophe Créminon, Xavier Franck ^{*}**Radical-initiated cyclization as a key step for the synthesis of oxoprotoberberine alkaloids**

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Chih-Shone Lee ^{*}, Tsung-Ching Yu, Jian-Wen Luo, Yen-Yao Cheng, Che-Ping Chuang

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*Corresponding author

+ Supplementary data available via ScienceDirect

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