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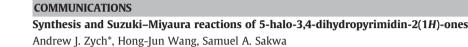
Tetrahedron Letters

journal homepage: www.elsevier.com/locate/tetlet

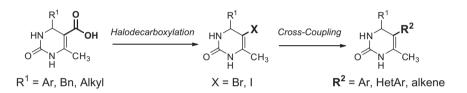
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Tetrahedron Letters Vol. 51, No. 39, 2010

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A novel synthesis of 6-methyl-4-phenyl-5-substituted-3,4-dihydropyrimidin-2(1H)-ones from 6-methyl-4-phenyl-5-halo-3,4-dihydropyrimidin-2(1H)-ones via the Suzuki-Miyaura reaction is reported. These previously unknown heterocyclic halides are easily prepared using the Biginelli multicomponent reaction followed by halodecarboxylation. The effect of varied substitution at the C-4 position on the cross-coupling reaction is also examined.

Synthesis and reactions of the first fluoroalkylated 1,3-bis(trimethylsilyloxy)-1,3-butadienes

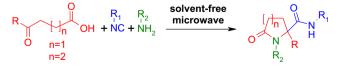
pp 5106-5108

Stefan Büttner, Franziska Bendrath, Peter Langer*



Synthesis of five- and six-membered lactams via solvent-free microwave Ugi reaction Mouhamad Jida, Sandra Malaquin, Rebecca Deprez-Poulain*, Guillaume Laconde, Benoit Deprez*

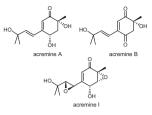
pp 5109-5111



Total syntheses of the fungal metabolites (±)-acremines A, B and I Goverdhan Mehta*, Y. C. Sunil Kumar, Tabrez Babu Khan

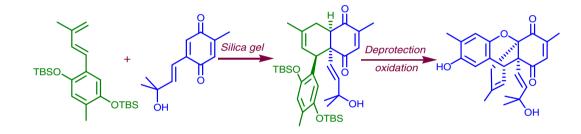
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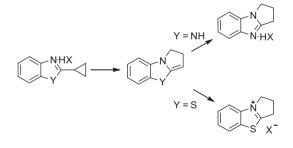


Total synthesis of the fungal metabolite (±)-acremine G: acceleration of a biomimetic Diels–Alder reaction on silica gel

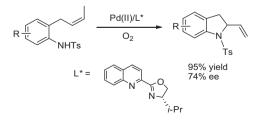
Goverdhan Mehta*, Tabrez Babu Khan, Y. C. Sunil Kumar



Synthesis of condensed heterocycles via cyclopropylimine rearrangement of cyclopropylazoles Yury V. Tomilov^{*}, Dmitry N. Platonov, Aleksandr E. Frumkin, Dmitry L. Lipilin, Rinat F. Salikov



Pd-catalyzed asymmetric aza-Wacker-type cyclization reaction of olefinic tosylamides Feng Jiang, Zhengxing Wu, Wanbin Zhang*



pp 5120-5123

pp 5124-5126

1) Pyridine, Tf₂O

 $R^3 = SO_2R'$. dr > 97:3

2) KOH

Synthesis of 1-(pyridyl, quinolyl, and isoquinolyl)azulenes by Reissert-Henze type reaction Taku Shoji*, Kazuyuki Okada, Shunji Ito, Kozo Toyota, Noboru Morita

Highly efficient and diastereoselective synthesis of 1,3-oxazolidines featuring a palladium-catalyzed cyclization pp 5131-5133 reaction of 2-butene-1,4-diol derivatives and imines

HO $\xrightarrow{}$ R¹ + $\xrightarrow{}$ R³ $\xrightarrow{}$ PdL_n THF, 50 °C R² $\xrightarrow{}$ CHR

Dongxu Chen, Xiaoyi Chen, Taiping Du, Lichun Kong, Renwei Zhen, Shaocheng Zhen, Yihang Wen, Gangguo Zhu*

Tf₂O

MeCN EtaN

A highly diastereoselective palladium-catalyzed synthesis of 1,3-oxazolidines using the readily available 2-butene-1,4-diol derivatives and imines as substrates has been reported.

Organocatalytic asymmetric thio-Michael addition of arylmethyl mercaptans to cyclic enones by a primary amino acid

 $X = OCO_2Et$, OAc

Masanori Yoshida*, Yasunobu Ohno, Shoji Hara



A simple primary amino acid was found to be an efficient catalyst for thio-Michael addition of benzyl mercaptan to cyclic enones.

Synthesis of an 8-pentafluorosulfanyl analog of the antimalarial agent mefloquine Tingting Mo, Xueling Mi, Erin E. Milner, Geoffrey S. Dow, Peter Wipf*



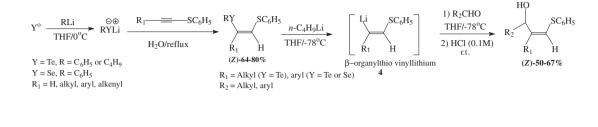
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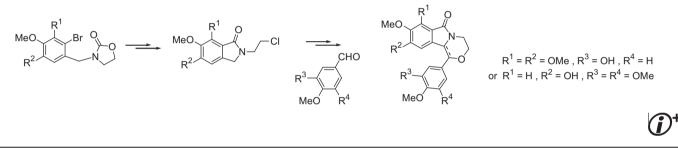
One-pot synthesis of mixed (Z)-1,2-bis(organylchalcogene)-1-alkenes precursors of the novel β -organylthio vinyllithium intermediates

Miguel J. Dabdoub^{*}, Vânia B. Dabdoub, Marco A. Pereira, Adriano C. M. Baroni, Francisco A. Marques, Paulo R. de Oliveira, Palimécio G. Guerrero Jr.^{*}

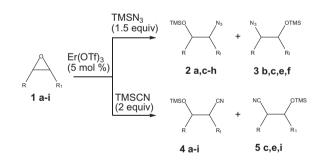


Synthesis and cytotoxic evaluation of *cis*-locked and constrained analogues of combretastatin and combretastatin A4

Magali Lorion, Vangelis Agouridas, Axel Couture*, Eric Deniau, Pierre Grandclaudon

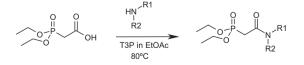


Efficient ring opening of epoxides with trimethylsilyl azide and cyanide catalyzed by erbium(III) triflate Antonio Procopio^{*}, Paola Costanzo, Renato Dalpozzo, Loredana Maiuolo, Monica Nardi, Manuela Oliverio



Efficient method to prepare diethylphosphonacetamides

Federico Scaravelli*, Sergio Bacchi, Luca Massari, Ornella Curcuruto, Pieter Westerduin, William Maton



An efficient and versatile synthetic method is described to synthesize diethylphosphonacetamides in a single step.

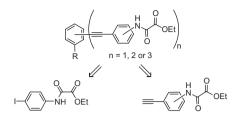
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Synthesis and characterization of new mono-, bis-, and tris-oxamato proligands

Christophe Stroh^{*}, Alexandrina Stuparu



Up to three *N*-phenyl-oxalamic acid ethyl esters are combined via Sonogashira-type cross-coupling reactions. The short synthetic pathways lead easily to valuable molecules with overall interesting yields.

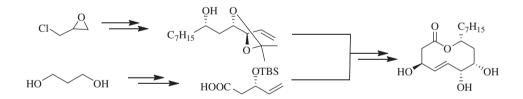
Lewis acid catalyzed rapid synthesis of 5-hydroxy-benzo[g]indole scaffolds by a modified Nenitzescu reaction Moyurima Borthakur, Shyamalee Gogoi, Junali Gogoi, Romesh C. Boruah* pp 5160-5163



A fast solvent-less synthesis of 5-hydroxy-benzo[g]indoles has been accomplished by Lewis acid-catalyzed one-pot reaction of naphthoquinone, ω-morpholinoacetophenone, and urea under microwave irradiation.

First total synthesis of achaetolide

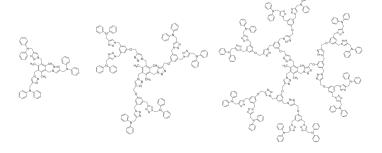
S. Chandrasekhar*, S. V. Balaji, G. Rajesh



Synthesis, optical, electrochemical, and thermal studies on triazole-based dendrimers with diphenylamine as surface group

pp 5167-5172

Perumal Rajakumar*, Chinnadurai Satheeshkumar, Sebastian Raja

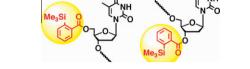


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Synthesis and biochemical properties of oligodeoxynucleotides acylated by the chemically stable 2-(trimethylsilyl)benzoyl (TMSBz) group at the 5' or 3' terminus

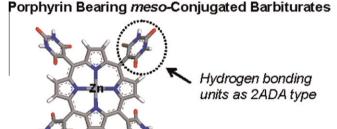
Ken Yamada, Haruhiko Taguchi, Akihiro Ohkubo, Kohji Seio, Mitsuo Sekine*



Oligonucleotides acylated by the chemically stable TMSBz group at their 5' or 3' terminus were synthesized. This modification enhanced not only their resistance to exonucleases but also hybridization affinity for the complementary DNA oligomers.

Synthesis and self-assembling behavior of a porphyrin bearing multiple meso-conjugated barbiturates Satoshi Arai, Toshiya Okamura, Shinji Takeoka*

pp 5177-5180



Enhanced reactivity of silver- and gold-catalysed hydrogenations using silver(I) salts Robert Crook, John Deering, Steven J. Fussell*, Alan M. Happe, Seán Mulvihill

pp 5181-5184

pp 5185-5190

Au or Aa X = F CI Br I Ag(I) salts Ĥ,

A novel application of silver(1) salt promoters in silver- and gold-catalysed hydrogenations was applied to the chemoselective reduction of halonitrobenzenes resulting in excellent conversions and selectivities. This reactivity, coupled with the low cost of silver relative to more expensive precious metal counterparts, demonstrates this catalytic system as an attractive alternative for challenging chemoselective transformations.

A general equation correlating intramolecular rates with 'attack' parameters: distance and angle

Rafik Karaman

rate on geometrical parameters $\Delta \mathbf{H}^{\ddagger} \text{ or } \Delta \mathbf{G}^{\ddagger} = \mathbf{r}_{\mathbf{GM}}^2 \mathbf{x} \sin (180 \text{-} \boldsymbol{\alpha}_{\mathbf{GM}})$ protor transfer

Transition state

Representation of the dependence of intramolecular proton transfer

X is O, N or C; α_{GM} is the hydrogen bonding angle; r_{GM} is the distance between the two reactive centers; ΔG^{\ddagger} and ΔH^{\ddagger} are the free activation and enthalpic activation energies, respectively.

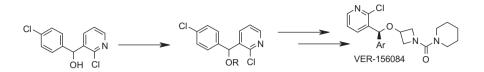
 α_{GM} r_{GM} Reactant pp 5173-5176

5101

Fatty acid amide hydrolase inhibitors. 2. Novel synthesis of sterically hindered azabenzhydryl ethers and an improved synthesis of VER-156084

pp 5191-5194

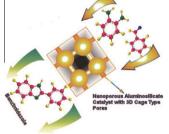
Stephen D. Roughley*, Terance Hart



We report a novel etherification of hindered ethers and its application in an improved synthesis of the FAAH inhibitor VER-156084. We show the conditions reported to be of broad applicability to the synthesis of hindered ethers.

Nanoporous aluminosilicate catalyst with 3D cage-type porous structure as an efficient catalyst for the synthesis of pp 5195–5199 benzimidazole derivatives

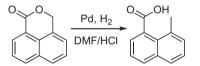
Murugulla A. Chari, D. Shobha, El-Refaie Kenawy, Salem S. Al-Deyab, B. V. Subba Reddy, Ajayan Vinu*



Synthesis of benzimidazoles via the coupling of aldehydes with o-phenylenediamine using the highly acidic AlKIT-5 catalyst is demonstrated.

HCl/DMF for enhanced chemoselectivity in catalytic hydrogenolysis reactions

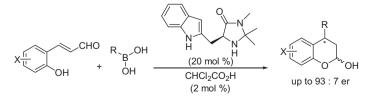
Agata Ochocinska, Anna Siegbahn, Ulf Ellervik*



An improved, chemoselective hydrogenolysis method has been developed to favor debenzylation and simultaneously minimize saturation of aromatic residues as well as acid-mediated bond cleavage.

Asymmetric organocatalytic reactions of *o*-hydroxycinnamaldehydes with organoboronic acids: a facile enantioselective access to chromanes and dihydrobenzopyranes

Kwang-Su Choi, Sung-Gon Kim*





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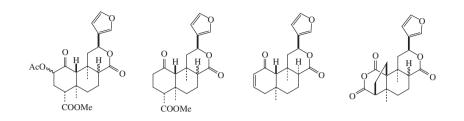
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(i)+

Novel neoclerodane diterpene derivatives from the smoke of salvinorin A

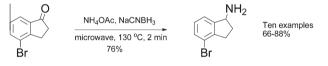
Zhongze Ma, Gang Deng, David Y. W. Lee*

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Microwave-accelerated reductive amination between ketones and ammonium acetate Li Dong^{*}, Saadat Aleem, Cynthia A. Fink

pp 5210-5212



*Corresponding author

(*D*⁺ Supplementary data available via ScienceDirect

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