

Tetrahedron Letters Vol. 51, No. 28, 2010

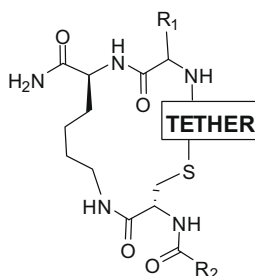
Contents

COMMUNICATIONS

Parallel synthesis of 19-membered ring macro-heterocycles via intramolecular thioether formation

pp 3607–3609

Safa Derbel, Kamel Ghedira, Adel Nefzi*



First total synthesis of 11-tellura steroids

pp 3610–3612

Malika Ibrahim-Ouali*

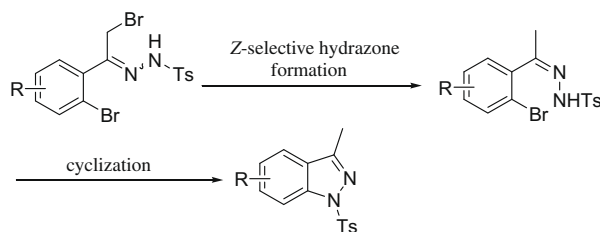


The first total synthesis of 11-tellura steroids is described.

Z-Selective synthesis of *o*-bromoacetophenone *N*-tosylhydrazones and formation of 3-methylindazoles in aqueous ethanol

pp 3613–3615

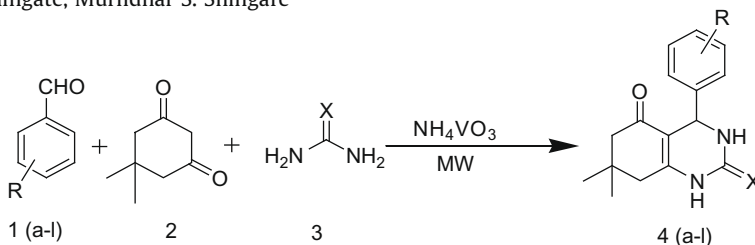
Tuula Kymälä, Sandra Udd, Jan Tois*, Robert Franzén



Microwave-assisted one-pot synthesis of octahydroquinazolinone derivatives using ammonium metavanadate under solvent-free condition

pp 3616–3618

Kirti S. Niralwad, Bapurao B. Shingate, Murlidhar S. Shingare*

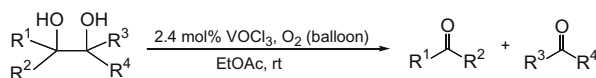


Ammonium metavanadate (NH_4VO_3) has been shown to be an inexpensive, efficient, and mild catalyst for the one-pot synthesis of octahydroquinazolinone derivatives using dimedone, urea/thiourea, and appropriate aromatic aldehydes under microwave-irradiation.

Effective cleavage of ditertiary glycols via vanadium(V)-catalyzed aerobic oxidation

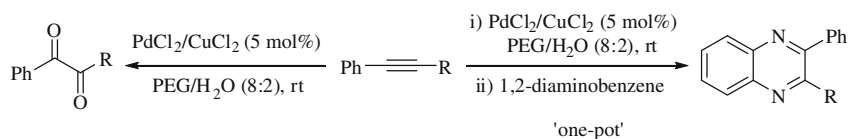
pp 3619–3622

Masayuki Kiriwara*, Katsumi Yoshida, Takuya Noguchi, Sayuri Naito, Nobuchika Matsumoto, Yukinori Ema, Motoya Torii, Yuki Ishizuka, Ikuo Souta


Oxidation of alkynes using $\text{PdCl}_2/\text{CuCl}_2$ in PEG as a recyclable catalytic system: one-pot synthesis of quinoxalines

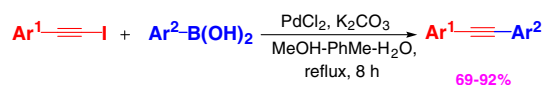
pp 3623–3625

S. Chandrasekhar*, N. Kesava Reddy, V. Praveen Kumar


 PdCl_2 -catalyzed cross-coupling reaction of arylacetylene iodides with arylboronic acids to diarylacetylenes

pp 3626–3628

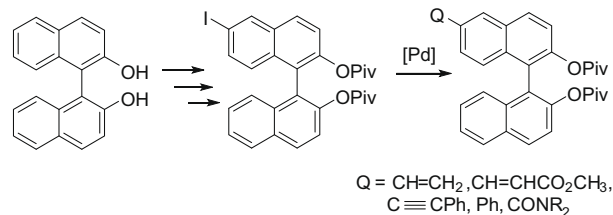
Yu Shi, Xiaoyu Li, Jianhui Liu*, Wenfeng Jiang, Licheng Sun*



Facile synthesis of 6-iodo-2,2'-dipivaloyloxy-1,1'-binaphthyl, a key intermediate of high reactivity for selective palladium-catalyzed monofunctionalization of the 1,1'-binaphthalene core

pp 3629–3632

Csaba Fehér, Béla Urbán, László Ürge, Ferenc Darvas, József Bakos, Rita Skoda-Földes*

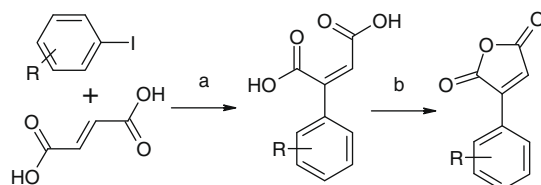


6-Iodo-2,2'-dipivaloyloxy-1,1'-binaphthyl is synthesized in three steps from dihydroxy-1,1'-binaphthyl in 88% overall yield and is shown to be a highly reactive substrate in various Pd-catalyzed coupling reactions.

Arylmaelic anhydrides via Heck arylation of fumaric acid

pp 3633–3635

Alexander I. Roshchin*

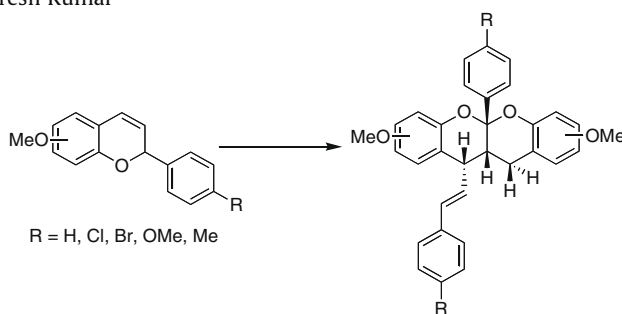


(a) PdCl₂ (0.4 mol%), Ph₃P (1.6 mol%), K₂CO₃, DMF-H₂O 100 °C, 2.5–48 h
(b) 200–300 °C, 0.5–2 Torr or Ac₂O, 100 °C, 0.5 h

An efficient synthesis of novel tetrahydrochromeno[2,3-*b*]chromenes

pp 3636–3638

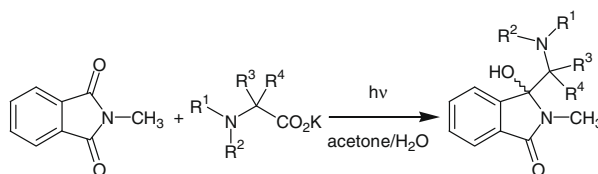
Ruth Devakaram, David StC. Black, Naresh Kumar*



Photodecarboxylative additions of *N*-protected α -amino acids to *N*-methylphthalimide

pp 3639–3641

Sonia Gallagher, Fadi Hatoum, Nicolai Zientek, Michael Oelgemöller*

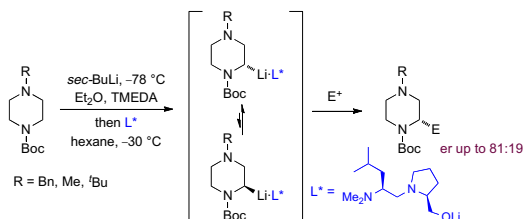


Photoreactions involving *N,N*-dimethylated α -amino acid salts and *N*-methylphthalimide are dominated by photoreduction and acetone trapping. Only *N*-phenyl glycinate underwent photodecarboxylative addition in a moderate yield of 30%. In contrast, *N*-acylated α -amino acid salts readily gave addition products in fair to high yields of 20–95%. Comparison experiments with *N,N*-dimethylacetamide and amino/amido-containing phthalimides revealed the origin of the crucial electron-transfer step and the reactivity order NR₃ » RCO₂⁻ ≥ RCONR₂ was established.

Dynamic thermodynamic resolution of lithiated *N*-Boc-*N'*-alkylpiperazines

pp 3642–3644

Steven P. Robinson, Nadeem S. Sheikh, Carl A. Baxter, Iain Coldham*

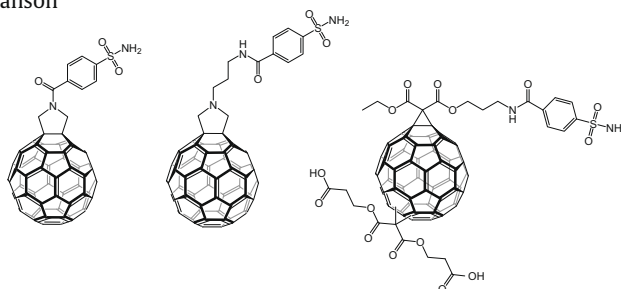


Deprotonation of *N*-Boc-*N'*-alkylpiperazines and dynamic thermodynamic resolution (DTR) with a chiral ligand gave, after electrophilic quench, 2-substituted *N*-Boc-*N'*-alkylpiperazines with moderate yields and enantioselectivities.

Design and synthesis of C₆₀-benzenesulfonamide conjugates

pp 3645–3648

Tatiana Y. Zakharian, David W. Christianson*

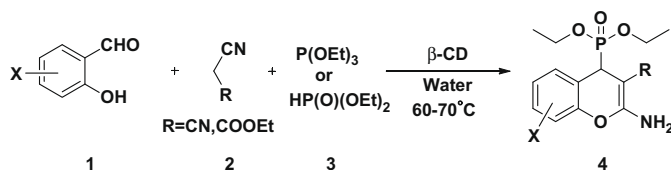


Synthesis of C₆₀-benzenesulfonamide conjugates is reported. The strategies for improving their water solubility, as required for binding to human carbonic anhydrase II, are discussed.

**One-pot synthesis of 2-amino-4*H*-chromen-4-yl phosphonate derivatives using β-cyclodextrin as reusable catalyst in water**

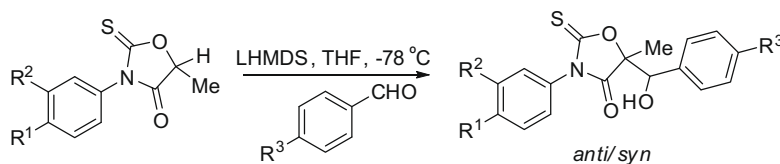
pp 3649–3653

S. Narayana Murthy, B. Madhav, V. Prakash Reddy, Y. V. D. Nageswar*

**Stereochemical studies of 5-methyl-3-(substituted phenyl)-5-[(substituted phenyl) hydroxy methyl]-2-thioxazolidin-4-ones**

pp 3654–3657

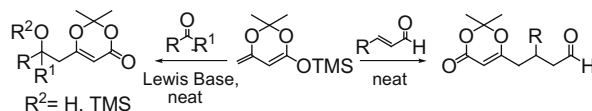
Gopal L. Khatik, Anang Pal, Shaikh M. Mobin, Vipin A. Nair*



Solvent-free Mukaiyama and Mukaiyama–Michael vinylogous reactions of a dioxinone-derived silyl enol ether promoted by Lewis bases

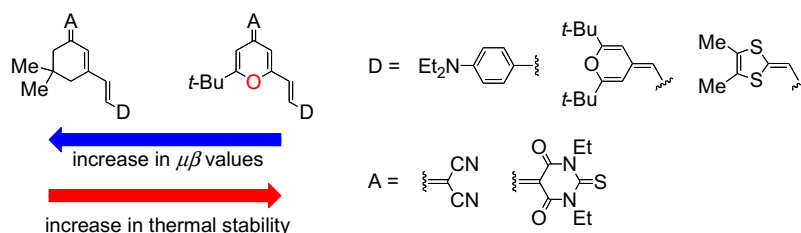
pp 3658–3661

Arrigo Scettri*, Vincenzo De Sio, Rosaria Villano, Patrizia Manzo, Maria Rosaria Acocella*

**Isophorone- and pyran-containing NLO-chromophores: a comparative study**

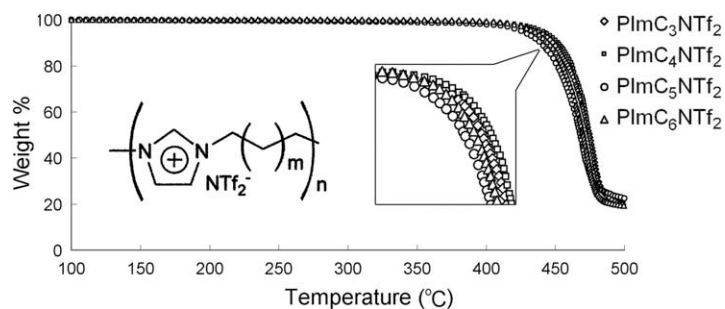
pp 3662–3665

Raquel Andreu, Santiago Franco, Elena Galán, Javier Garín*, Natalia Martínez de Baroja, Cristina Momblona, Jesús Orduna, Raquel Alicante, Belén Villacampa

**Facile synthesis of polymerized ionic liquids with high thermal stability**

pp 3666–3669

Yu-Nung Hsieh, Chun-Hsiung Kuei, Yu-Kai Chou, Chia-Chyuan Liu, Kuen-Lin Leu, Tasi-Hsiu Yang, Mei-Ying Wang, Wen-Yueh Ho*

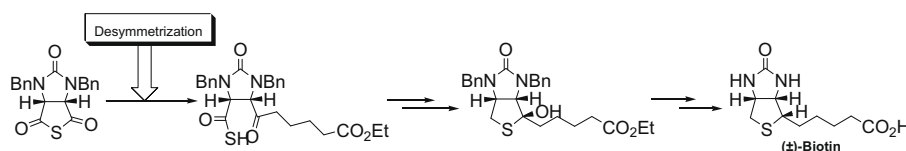


Thermal gravimetric analysis of the proposed polymerized ionic liquids.

A novel synthetic strategy for the stereospecific total synthesis of (±)-biotin

pp 3670–3672

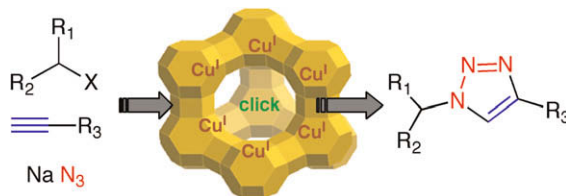
Fei Xiong, Xu-Xiang Chen, Zhi-Qian Liu, Fen-Er Chen*

A concise and efficient TEA-mediated desymmetrization of *meso*-thioanhydride with 5-ethoxy-5-oxopentylzinc bromide has been developed, which affords a convenient strategy for the stereospecific total synthesis of (±)-biotin.

Zeo-click synthesis: Cu^I-zeolite-catalyzed one-pot two-step synthesis of triazoles from halides and related compounds

pp 3673–3677

Valérie Bénêteau, Andrea Olmos, Thirupathi Boningari, Jean Sommer, Patrick Pale*

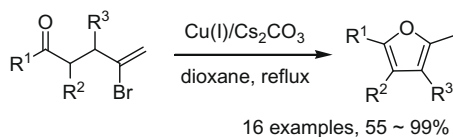


Primary and secondary halides or tosylates react with sodium azide and alkynes in a Cu^I-zeolite-catalyzed cascade reaction in water, directly yielding substituted triazoles in a green way.

Synthesis of multisubstituted furans via copper-catalyzed intramolecular O-vinylation of ketones with vinyl bromides

pp 3678–3681

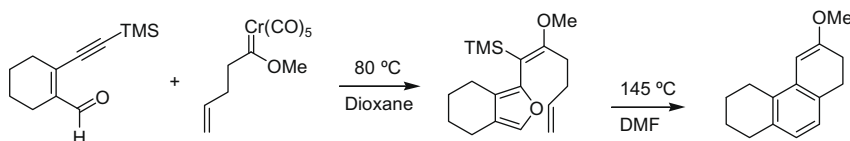
Liqun Chen, Yewen Fang, Qiwu Zhao, Min Shi, Chaozhong Li*



Synthesis of hydronaphthalenes through coupling of enyne-carbonyl compounds that contain pendant alkane groups with Fischer carbene complexes

pp 3682–3684

Rajesh Kumar Patti, Shaofeng Duan, Alejandro Camacho-Davila, Kris Waynant, Kenneth A. Dunn, James W. Herndon*

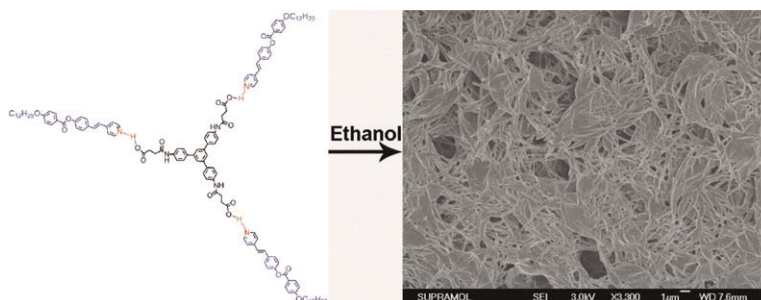


Reaction of simple enyne aldehydes with γ,δ -unsaturated carbene complexes leads to alkene-appended furans, which undergo tandem intramolecular Diels–Alder reactions followed by dehydration in DMF solvent.

A potent triphenylbenzene-based H-bonding donor to assist formation of two-component organogels with stilbazoles

pp 3685–3690

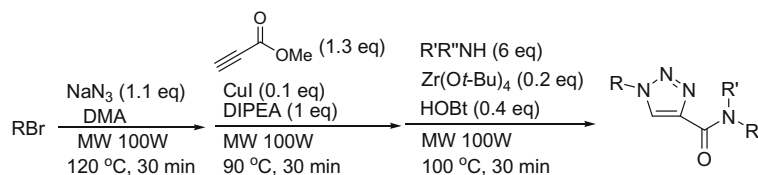
Oudjaniyobi Simalou, Pengchong Xue, Ran Lu*



A convenient and efficient synthesis of C-carbamoyl-1,2,3-triazoles from alkyl bromide by a one-pot sequential addition: conversion of ester to amide using $Zr(Ot-Bu)_4$

pp 3691–3695

Dongsik Yang, Mihyun Kwon, Yujin Jang, Heung Bae Jeon*




A convenient and efficient one-pot sequence has been developed for the synthesis of C-carbamoyl-1,2,3-triazoles from alkyl bromide under microwave irradiation.

OTHER CONTENT

Erratum

p 3696

*Corresponding author

 Supplementary data available via ScienceDirect

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