

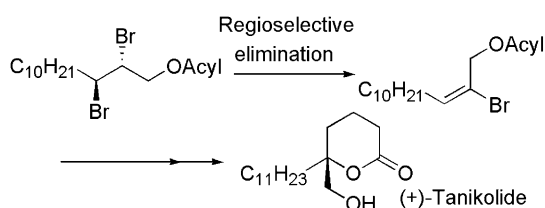
Contents

COMMUNICATIONS

Total synthesis of (+)-tanikolide, a toxic and antifungal δ -lactone, utilizing bromoalkene intermediates conveniently synthesized from vicinal dibromoalkane by regioselective elimination

pp 8273–8275

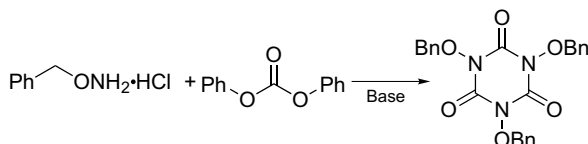
Tadaaki Ohgiya and Shigeru Nishiyama*



Development of an efficient method for preparation of 1,3,5-trihydroxyisocyanuric acid (THICA) and its use as aerobic oxidation catalyst

pp 8277–8280

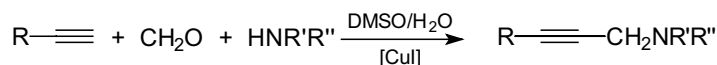
Naruhisa Hirai, Takashi Kagayama, Yoshinobu Tatsukawa, Satoshi Sakaguchi and Yasutaka Ishii*



Mild and efficient synthesis of propargylamines by copper-catalyzed Mannich reaction

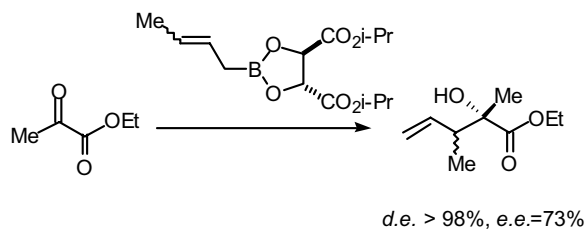
pp 8281–8283

Lothar W. Bieber* and Margarete F. da Silva

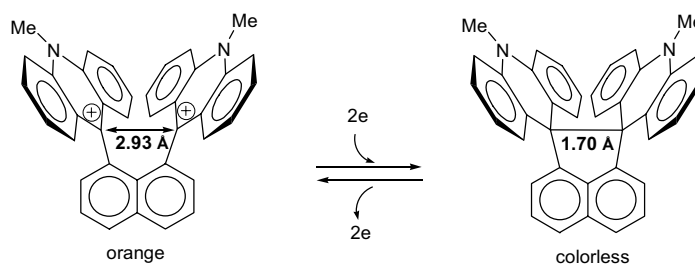


Terminal alkynes can be condensed with aqueous formaldehyde and primary or secondary amines to give secondary and tertiary propargylamines. The reaction is best carried out in DMSO under CuI catalysis.

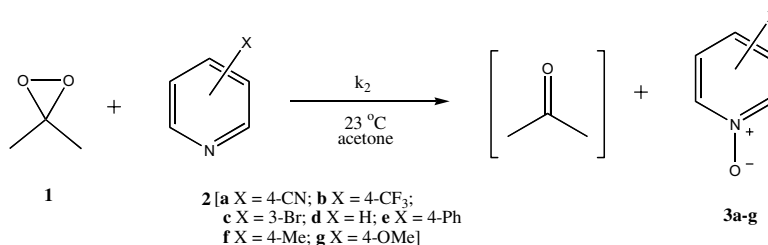
Diastereo- and enantio-selective crotylation of α -ketoesters using crotyl boronic acid ester complexes pp 8285–8288
Yanping Chen, Laxman Eltepu and Paul Wentworth, Jr.*



Short nonbond and long C–C bond in naphthalene-1,8-diylbis(10-methylacridinium) and the corresponding hexaphenylethane derivative: a new electrochromic pair exhibiting dynamic redox properties pp 8289–8293
Hidetoshi Kawai, Takashi Takeda, Kenshu Fujiwara and Takanori Suzuki*

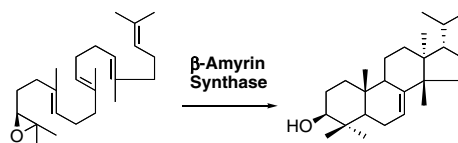


Oxidation of substituted pyridines by dimethyldioxirane: kinetics and solvent effects pp 8295–8297
W. Rucks Winkeljohn, Pedro C. Vasquez, Lucjan Streckowski and Alfons L. Baumstark*



The second order rate constants for the oxidation of substituted pyridines by dimethyldioxirane at 23 °C in dried acetone were found to correlate with sigma values ($\rho = -2.91$). The reaction was shown to be very sensitive to protic, polar solvents.

Enzymatic formation of an unnatural novel tetracyclic sesterterpene by β -amyrin synthase pp 8299–8301
Hisashi Noma, Hideya Tanaka, Hiroshi Noguchi, Masaaki Shibuya, Yutaka Ebizuka and Ikuro Abe*

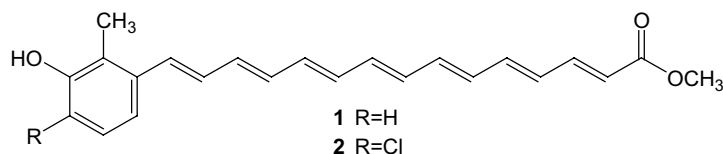


A C₂₅ oxidopolyprene was enzymatically converted to a novel unnatural tetracyclic sesterterpene by recombinant β -amyrin synthase from *Pisum sativum*, while a C₃₅ analogue did not afford any cyclization product.



Two novel yellow pigments natronochrome and chloronatronochrome from the natrono(alkali)philic sulfur-oxidizing bacterium *Thialkalivibrio versutus* strain ALJ 15 pp 8303–8305

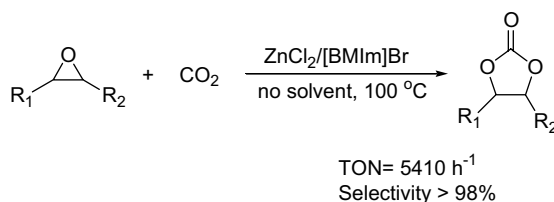
Shinichi Takaichi,* Takashi Maoka, Naoshige Akimoto, Dimitry Yu. Sorokin, Horia Banciu and J. Gijs Kuenen



Two novel membrane-bound yellow pigments natronochrome (1) and chloronatronochrome (2) were isolated from the obligately chemolithoautotrophic sulfur-oxidizing natrono(alkali)philic bacterium *Thialkalivibrio versutus* strain ALJ 15.

Chemical fixation of CO₂ with highly efficient ZnCl₂/[BMIm]Br catalyst system pp 8307–8310

Fuwei Li, Linfei Xiao, Chungu Xia* and Bin Hu

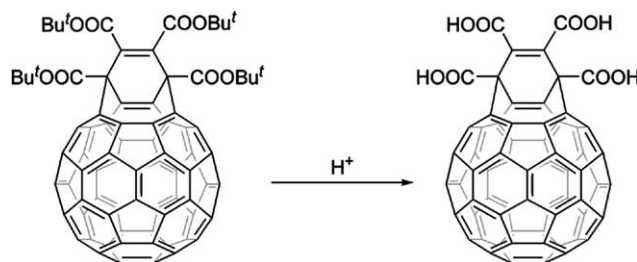


Chemical fixation of CO₂ with epoxides to form cyclic carbonates under the ZnCl₂/[BMIm]Br catalyst system without using additional organic solvents was achieved in excellent selectivity (>98%) and TOF (5410 h⁻¹) and the catalyst could be used six times.



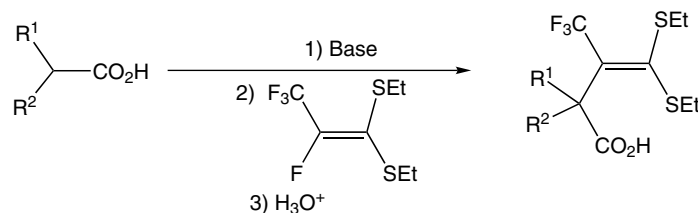
Hydrophilic [60]fullerene carboxylic acid derivatives retaining the original 60π electronic system pp 8311–8313

Vijayalakshmi K. Periya, Inami Koike, Yukihiro Kitamura, Sho-ichi Iwamatsu and Shizuaki Murata*



Reaction of lithium enediolates with perfluoroketene dithioacetals. Synthesis of α-trifluoromethyl γ-dicarboxylic acid derivatives pp 8315–8317

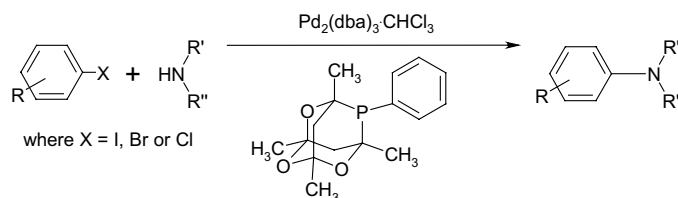
Enrique Sotoca, Jean-Philippe Bouillon, Salvador Gil, Margarita Parra* and Charles Portella*



Phospha-adamantanes as ligands for organopalladium chemistry: aminations of aryl halides

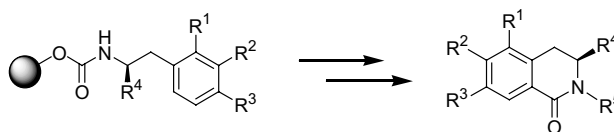
pp 8319–8321

David Gerristma, Timothy Brenstrum, James McNulty and Alfredo Capretta*

**Solid-phase synthesis of isoquinolinones using Bischler–Napieralski cyclization**

pp 8323–8326

Meei-Shiou Chern and Wen-Ren Li*

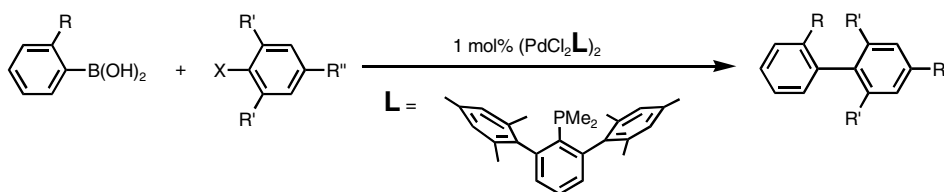


A traceless solid-phase synthetic approach to isoquinolinones is described here. This approach allows introducing both electron-donating as well as electron-withdrawing moieties on the benzene nuclei of isoquinolinones with high yields and purities.

Suzuki reactions catalyzed by palladium complexes bearing the bulky (2,6-dimesitylphenyl)dimethylphosphine

pp 8327–8330

Rhett C. Smith, Robert A. Woloszynek, Weizhong Chen, Tong Ren and John D. Protasiewicz*

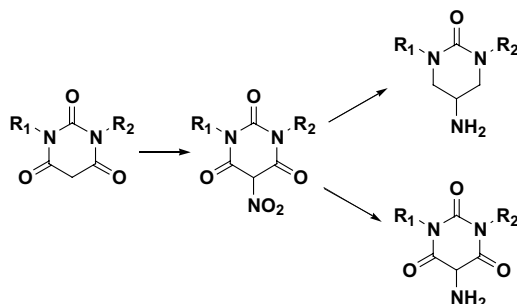


Good yields for coupling of aryl halides with arylboronic acids are achieved utilizing a (*m*-terphenyl)dialkylphosphine palladium complex.

**Facile synthesis of novel 5-amino 1,3-disubstituted tetrahydropyrimidinones**

pp 8331–8334

Guanglin Luo*

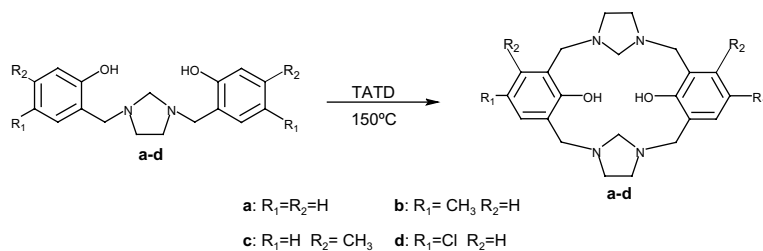


The synthesis of novel, 5-amino 1,3-disubstituted tetrahydropyrimidinones, and 5-aminobarbiturates are presented.

Solvent-free Mannich-type reaction as a strategy for synthesizing novel heterocalixarenes

pp 8335–8338

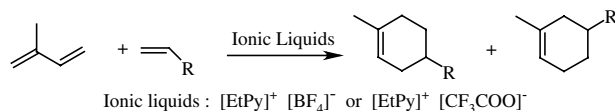
Augusto Rivera* and Rodolfo Quevedo



Diels–Alder reactions in pyridinium based ionic liquids

pp 8339–8342

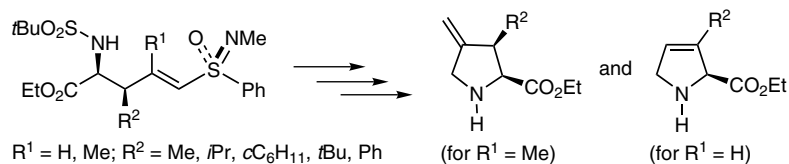
Ying Xiao and Sanjay V. Malhotra*



Asymmetric synthesis of 3-substituted unsaturated prolines from chiral sulfoximine substituted allyl titanium(IV) complexes

pp 8343–8346

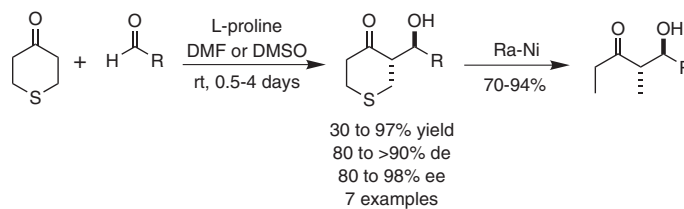
Shashi Kant Tiwari, Andreas Schneider, Stefan Koep and Hans-Joachim Gais*



Proline-catalyzed asymmetric aldol reactions of tetrahydro-4H-thiopyran-4-one with aldehydes

pp 8347–8350

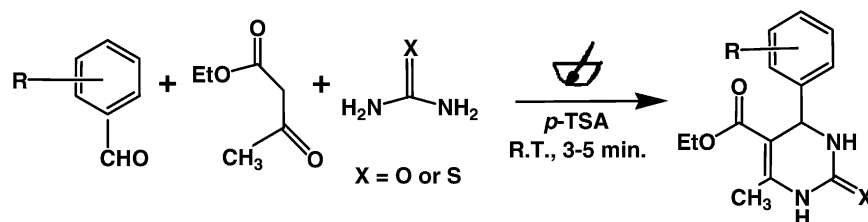
Dale E. Ward* and Vishal Jheengut



A simplified green chemistry approach to the Biginelli reaction using ‘Grindstone Chemistry’

pp 8351–8353

Ajay K. Bose,* Suhas Pednekar, Subhendu N. Ganguly, Goutam Chakraborty and Maghar S. Manhas

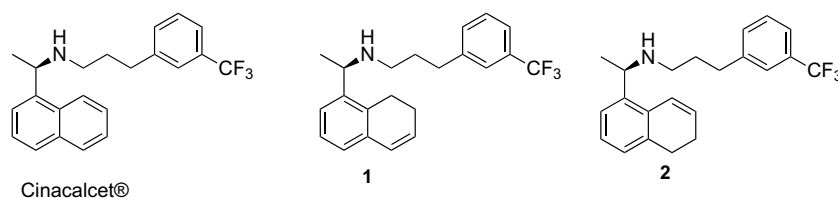


Solvent-free reactions that are complete in a few minutes.

Synthesis of Cinacalcet congeners

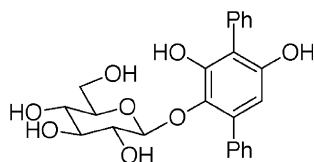
pp 8355–8358

Xin Wang,* Ying Chen, Richard Crockett, Jorge Briones, Tony Yan, Carlos Orihuela, Benxin Zhi and John Ng

Two related substances **1** and **2** of Cinacalcet were prepared.**The isolation, structural determination, and total synthesis of terfestatin A, a novel auxin signaling inhibitor from *Streptomyces* sp.**

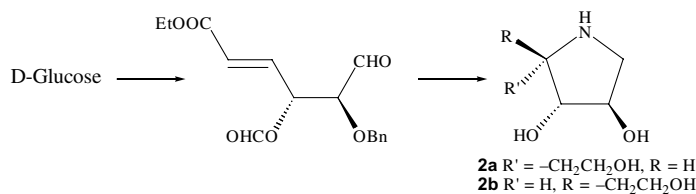
pp 8359–8362

Atsushi Yamazoe, Ken-ichiro Hayashi, Atsuhito Kuboki, Susumu Ohira and Hiroshi Nozaki*

The structure of terfestatin A was determined to be *p*-terphenyl β -glucoside on the basis of spectroscopic analyses, chemical degradation, and total synthesis.**The intramolecular conjugate addition of benzylamine to a D-glucose derived α,β -unsaturated ester: an efficient synthesis of trihydroxylated pyrrolidine alkaloids as potential glycosidase inhibitors**

pp 8363–8366

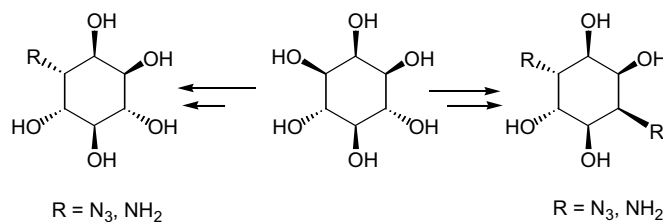
Vinod D. Chaudhari, K. S. Ajish Kumar and Dilip D. Dhavale*



Efficient routes to optically active azido-, amino-, di-azido- and di-amino-cyclitols with *chiro*- and *allo*-configuration from *myo*-inositol

pp 8367–8370

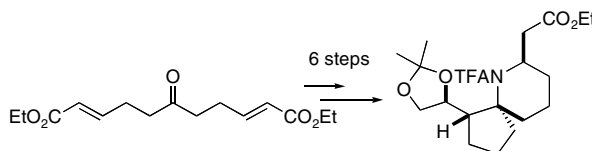
Kana M. Sureshan,* Kyoko Ikeda, Naoki Asano and Yutaka Watanabe*



Combining two-directional synthesis and tandem reactions. Part 4: A concise approach to the spirocyclic core of halichlorine and the pinnaic acids

pp 8371–8374

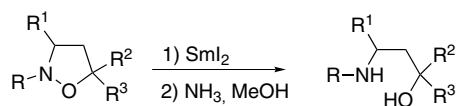
Louise G. Arini, Peter Szeto, David L. Hughes and Robert A. Stockman*



Samarium(II) iodide reduction of isoxazolidines

pp 8375–8377

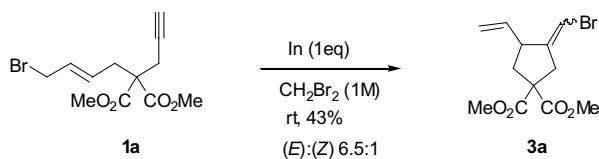
Julia Revuelta, Stefano Cicchi and Alberto Brandi*



A novel atom-transfer cyclisation catalysed by indium metal in halogenated solvents

pp 8379–8382

Nadia H. Bhatti and Matthew M. Salter*

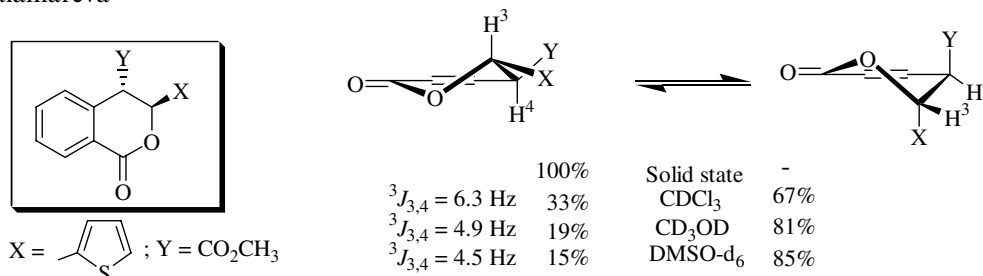


Treatment of tethered alkyne–allyl halides **1** with sub-stoichiometric quantities of indium metal in halogenated solvents affords carbocyclic vinyl halides **3** via a novel atom-transfer reaction. Use of a halogenated solvent containing a different halide than that in the substrate leads to formation of products arising from exchange and retention of halide.

Configuration and conformational equilibrium of (\pm)-*trans*-1-oxo-3-thiophen-2-yl-isochroman-4-carboxylic acid methyl ester

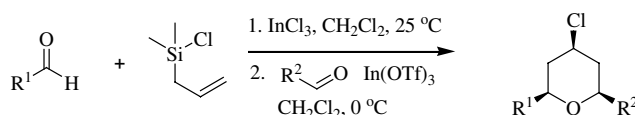
pp 8383–8386

Milen G. Bogdanov, Iliya S. Todorov, Pavlina G. Manolova, Diana V. Cheshmedzhieva and Mariana D. Palamareva*

**Lewis acid-catalyzed one-pot crossed Prins cyclizations using allylchlorosilane as allylating agent**

pp 8387–8390

Kok-Ping Chan and Teck-Peng Loh*

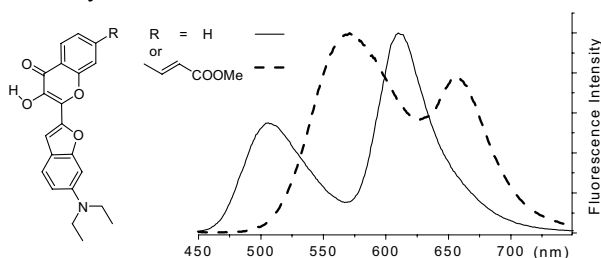


A one-pot multi-component Lewis acid-catalyzed Prins cyclization was developed with high yield and selectivity. The crossed 2,4,6-trisubstituted tetrahydropyran products were formed with high stereoselectivity. This catalytic method could also be used with α,β -unsaturated aldehydes affording moderate yields of products.

7-(2-Methoxycarbonylvinyl)-3-hydroxychromones: new dyes with red shifted dual emission

pp 8391–8394

Andrey S. Klymchenko* and Yves Mély

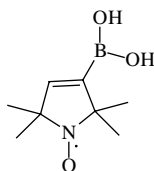


The titled compounds, synthesized by Heck coupling reaction, demonstrate strongly red shifted absorption and dual emission as well as enhanced solvatochromism.

Synthesis of a paramagnetic boronic acid as a useful synthetic building block and carbohydrate affinity spin probe

pp 8395–8398

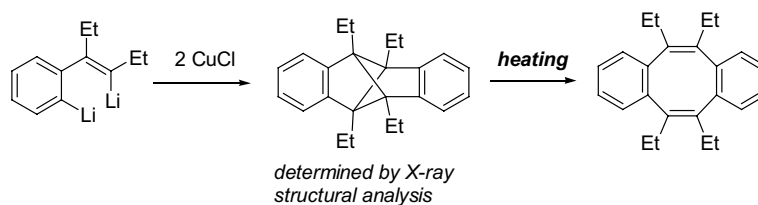
Tamás Kálai, József Jekő and Kálmán Hideg*



Synthesis, structural characterization, and skeletal rearrangement of dibenzo tricyclo[3.3.0.0^{2,6}]-1,2,5,6-tetrasubstituted octanes

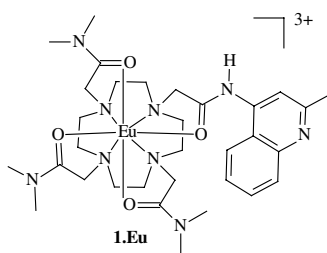
pp 8399–8402

Guotao Li, Hongyun Fang, Shiwei Zhang and Zhenfeng Xi*


Towards the development of Eu(III) luminescent switching/sensing in water-permeable hydrogels

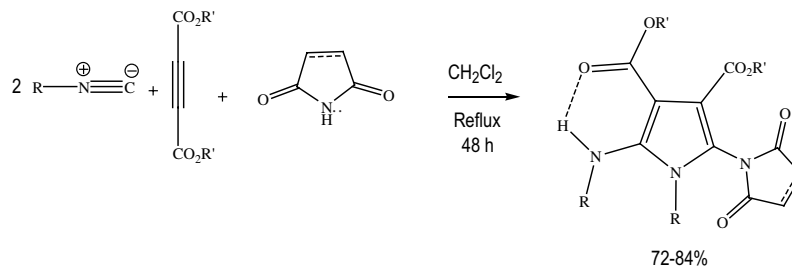
pp 8403–8407

Thorfinnur Gunnlaugsson,* Colin P. McCoy* and Floriana Stomeo


A novel pseudo four-component reaction: unexpected formation of densely functionalized pyrroles

pp 8409–8413

Ahmad Shaabani,* Mohammad Bagher Teimouri and Sakineh Arab-Ameri

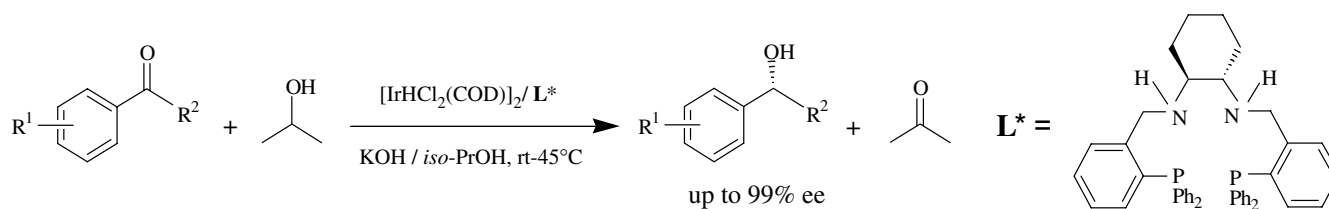


A novel pseudo four-component reaction of isocyanides and dialkyl acetylenedicarboxylates in the presence of acidic N-H compounds is described. Unexpectedly, during the course of this reaction densely functionalized pyrroles are formed.

Asymmetric transfer hydrogenation of aromatic ketones catalyzed by the iridium hydride complex under ambient conditions

pp 8415–8418

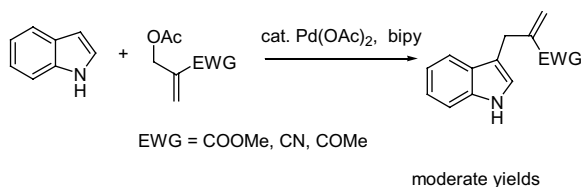
Jian-shan Chen, Yan-yun Li, Zhen-rong Dong, Bao-zhu Li and Jing-xing Gao*



Palladium-catalyzed functionalization of indoles with 2-acetoxymethyl substituted electron-deficient alkenes

pp 8419–8422

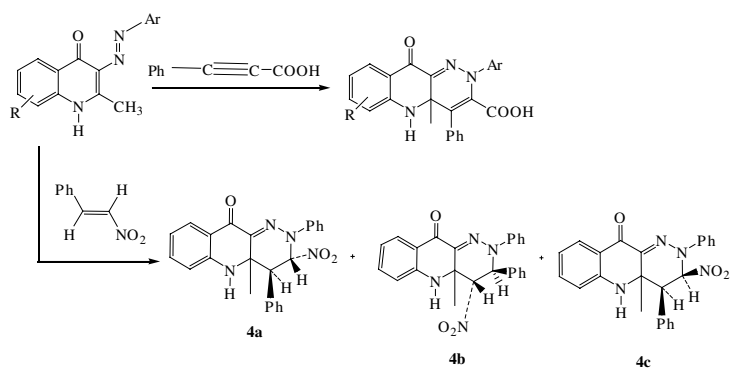
Shengming Ma* and Shichao Yu



The Pd-catalyzed cross coupling of indole with 2-acetoxymethyl-substituted electron-deficient alkenes under mild conditions was reported.

Cycloaddition of a 1,2-diaza-1,3-butadiene to phenylpropionic acid: an efficient route to pyridazinoquinolone derivatives

pp 8423–8425

Arun Kumar Padhy,* Pratigyan Purohit,
Mousumi Bardhan, C. S. Panda* and M. P. S. Ishar

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*Corresponding author

ⓓ⁺ Supplementary data available via ScienceDirect

COVER

Despite the manageable nature of acetone cyanohydrin, Meerwein–Ponndorf–Verley (MPV) cyanation, especially the asymmetric version, with it as the cyanide source, remains unexplored except for the study by Maruoka et al. This figure explains the features of catalytic enantioselective MPV cyanation using oxovanadium(V) (salen) complex as catalyst, as reported in *Tetrahedron Letters* **2004**, *45*, 6229–6233.

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