

Tetrahedron Letters Vol. 51, No. 20, 2010

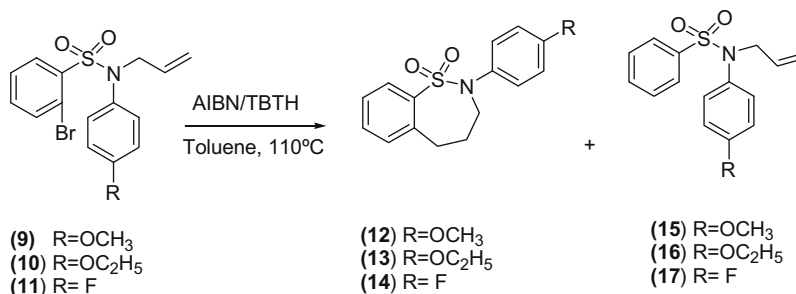
Contents

COMMUNICATIONS

Synthesis of conformationally restricted sulfonamides via radical cyclisation

pp 2681–2684

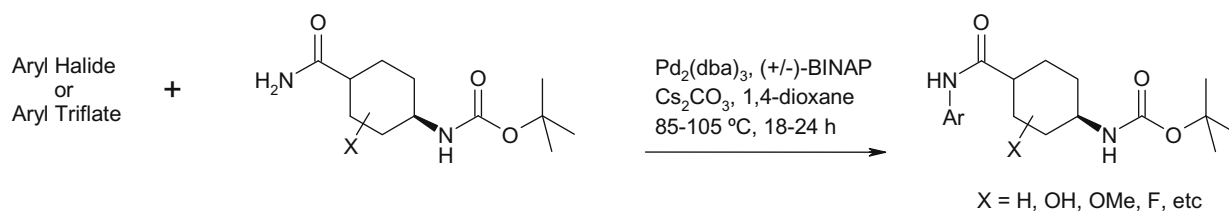
D. Biswas, L. Samp, A. K. Ganguly*



Flexible palladium-catalysed amidation reactions for the synthesis of complex aryl amides

pp 2685–2689

Christopher Barfoot, Gerald Brooks, Pamela Brown, Steven Dabbs, David T. Davies, Ilaria Giordano, Alan Hennessy*, Graham Jones, Roger Markwell, Timothy Miles, Neil Pearson, Christian A. Smethurst

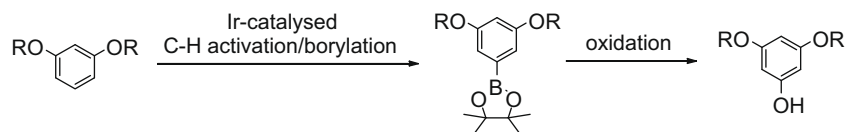


This Letter describes the synthesis of complex aryl amides using palladium-catalysed amidation reactions. Use of these conditions allowed for the coupling of a variety of aryl halides and triflates with a host of primary amides in high yields.

Iridium-catalyzed C–H activation/borylation/oxidation for the preparation of bis-protected phloroglucinol derivatives

pp 2690–2692

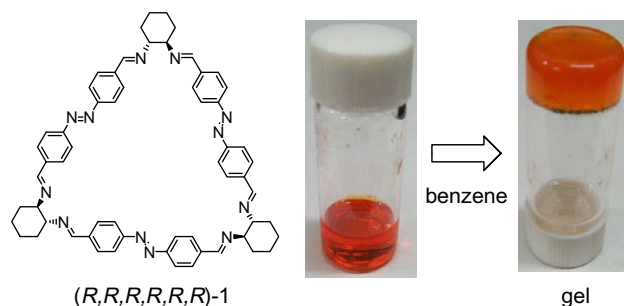
Laura J. Marshall, Karl M. Cable, Nigel P. Botting*



Novel chiral Schiff base macrocycles containing azobenzene chromophore: gelation and guest inclusion

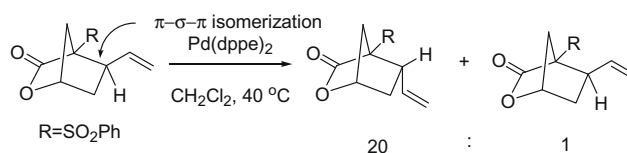
pp 2693–2696

Koichi Tanaka*, Shingo Fukuoka, Hiroki Miyamishi, Hiroki Takahashi

**Thermodynamic equilibration in Pd(0)-catalyzed interconversion of highly constrained [2.1.2] bicyclic lactones: its mechanistic investigation**

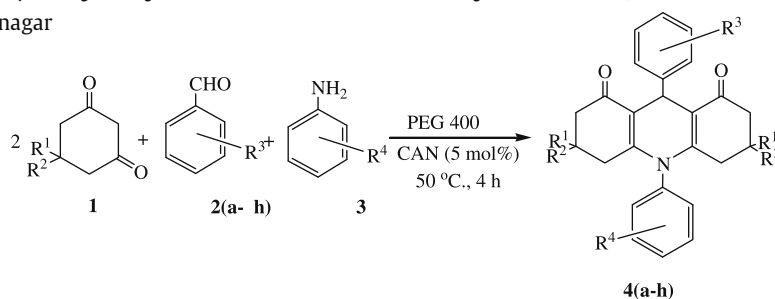
pp 2697–2699

Young Taek Han, Seung-Mann Paek, Sujin Lee, Jong-Wha Jung, Jae-Kyung Jung, Seung-Yong Seo, Jeeyeon Lee, Young-Ger Suh*

**Ceric ammonium nitrate (CAN) catalyzed synthesis of N-substituted decahydroacridine-1,8-diones in PEG**

pp 2700–2703

Mazaahir Kidwai*, Divya Bhatnagar

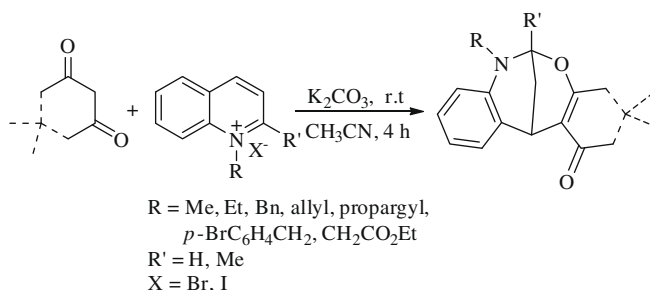


Polyethylene glycol (PEG) was found to be an inexpensive non-toxic and effective medium for the one-pot synthesis of N-substituted decahydroacridine-1,8-diones in the presence of ceric ammonium nitrate (CAN) as the catalyst in high yields. Also, the solvent system can be recovered and reused; making this protocol economically and potentially viable.

A new and convenient approach to heterotetracyclic benzoxazocines through addition of 1,3-dicarbonyl compounds to quinolinium salts

pp 2704–2707

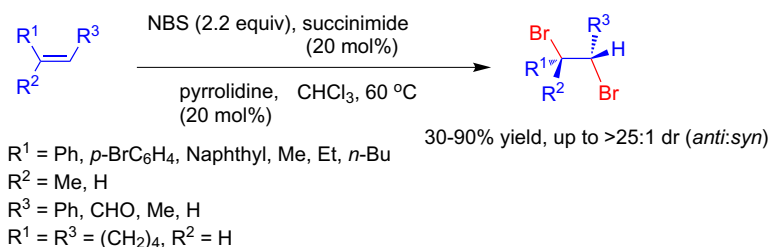
Firouz Matloubi Moghaddam*, Zohreh Mirjafary, Hamdollah Saedian, Salman Taheri, Mohammad Reza Khodabakhshi



Organocatalytic diastereoselective dibromination of alkenes

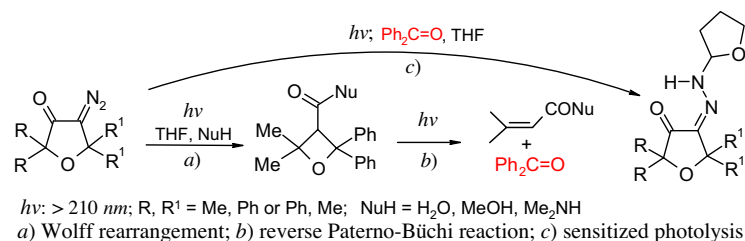
pp 2708–2712

Mingzhao Zhu, Shuangzheng Lin, Gui-Ling Zhao*, Junliang Sun, Armando Córdoba*

**Surprising secondary photochemical reactions observed on conventional photolysis of diazotetrahydrofuranones**

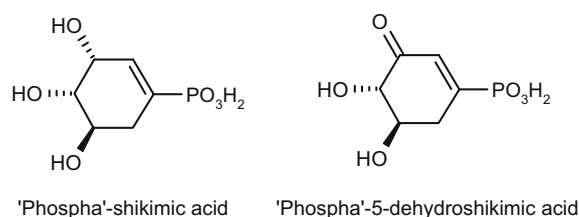
pp 2713–2716

Valerij A. Nikolaev*, Olesja S. Galkina, Jochim Sieler, Ludmila L. Rodina

**New aspects of the Hunsdiecker–Barton halodecarboxylation—syntheses of phospho-shikimic acid and derivatives**

pp 2717–2719

Benoît Carbain, Peter B. Hitchcock, Hansjörg Streicher*

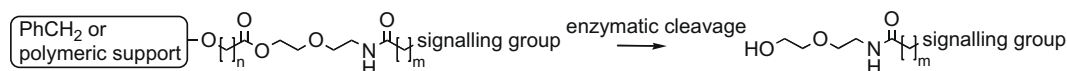


We report an efficient synthetic approach to phospho-isosteres of important intermediates of the shikimic acid pathway by the application of the Hunsdiecker–Barton halodecarboxylation to cyclohexenylcarboxylic acids. As examples, phospho-shikimic acid, its 3-dehydro derivative and the respective monomethyl esters were synthesized.

**Screening of polymeric supports and enzymes for the development of an *endo* enzyme cleavable linker**

pp 2720–2723

Ana Chiva, David E. Williams, Alethea B. Tabor, Helen C. Hailes*



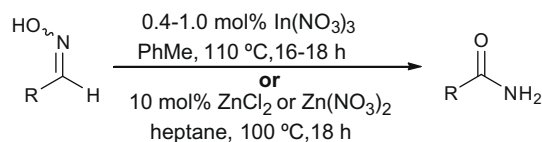
A range of polymeric supports was prepared and investigated for applications in an enzyme cleavable assay.



Cost efficient synthesis of amides from oximes with indium or zinc catalysts

pp 2724–2726

C. Liana Allen, Céline Burel, Jonathan M. J. Williams*

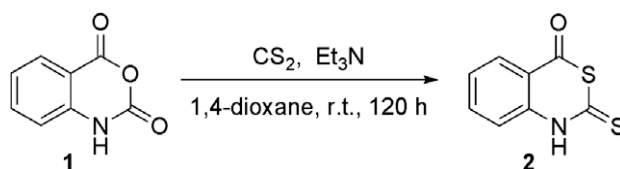


Simple indium and zinc salts are shown to be effective alternatives to precious metals for the rearrangement of oximes into amides.

**1,2-Dihydro-2-thioxo-4H-3,1-benzothiazin-4-one: formation from carbon disulfide and isatoic anhydride**

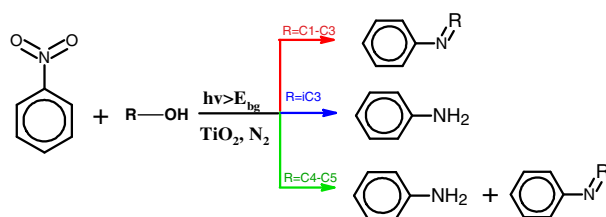
pp 2727–2729

Philipp A. Ottersbach, Hans-Georg Häcker, Paul W. Elsinghorst, Gregor Schnakenburg, Michael Gütschow*

**Synthesis of imines from nitrobenzene and TiO₂ particles suspended in alcohols via semiconductor photocatalysis type B**

pp 2730–2733

Omar Rios-Berný, Sergio O. Flores, Iván Córdova, Miguel A. Valenzuela*

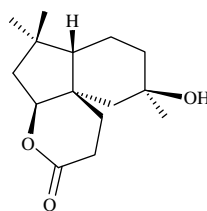


Different imines have been prepared through a semiconductor photocatalysis type B in which the reduction product coming from nitrobenzene and the oxidation product of an alcohol are linked.

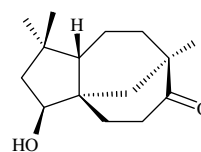
**Rumphellclovane A, a novel clovane-related sesquiterpenoid from the gorgonian coral *Rumphella antipathies***

pp 2734–2736

Hsu-Ming Chung, Yung-Husan Chen, Tsong-Long Hwang, Li-Fan Chuang, Wei-Hsien Wang*, Ping-Jyun Sung*

*Rumphella antipathies*

Rumphellclovane A (1)

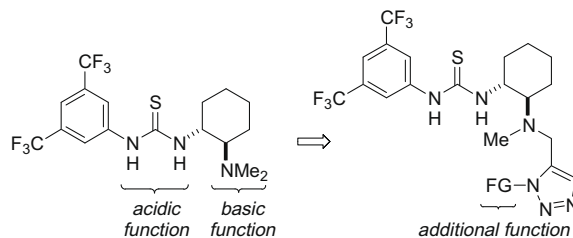


2β-Hydroxyclovane-9-one (2)

Synthesis of trifunctional thioureas bearing 1,5-disubstituted triazole tether by Ru-catalyzed Huisgen cycloaddition

pp 2737–2740

Kiyosei Takasu*, Takumi Azuma, Yoshiji Takemoto*

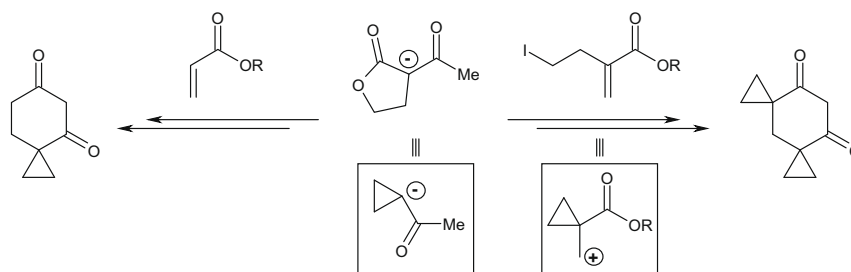


Synthesis of trifunctional thiourea catalysts tethered with a variety of functional group is described. 1,5-Triazole tether in the catalysts was constructed by ruthenium-catalyzed Huisgen cycloaddition. We demonstrate the utility of the synthetic thioureas as an asymmetric catalyst for Michal addition of nitrostyrene with cyclohexanone.

Design and synthesis of novel spirocyclopropyl cyclohexane-1,3-diones and -1,3,5-triones for their incorporation into potent HPPD inhibitors

pp 2741–2744

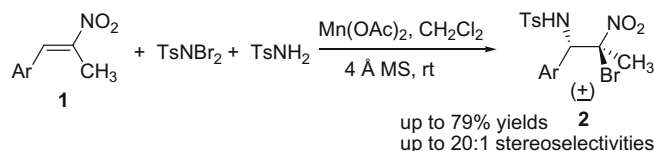
Renaud Beaudegnies*, Alain De Mesmaeker, Aurélie Mallinger, Myriam Baalouch, André Goetz



The combination of TsNBr₂/TsNH₂ as the nitrogen/halo source for the aminobromination of β-methyl-β-nitrostyrenes catalyzed by Mn(OAc)₂

pp 2745–2747

Sanjun Zhi, Guanghui An, Hao Sun, Jianlin Han*, Guigen Li*, Yi Pan*

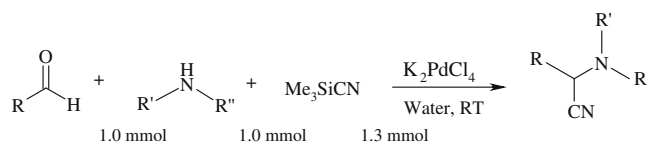


The combination of TsNBr₂/TsNH₂ was found to be an efficient nitrogen/halo source for the aminohalogenation of β-methyl-β-nitrostyrenes resulting in vicinal bromoamino nitroalkanes.

K₂PdCl₄ catalyzed efficient multicomponent synthesis of α-aminonitriles in aqueous media

pp 2748–2750

Bikash Karmakar, Julie Banerji*

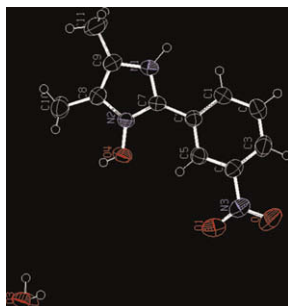


A green method has been adopted for the Strecker reaction to synthesize α-aminonitriles in the presence of K₂PdCl₄ in water with excellent yield.

Imidazole derivatives as the organic precursor of ZnO nano particle

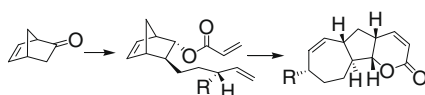
pp 2751–2753

Arun Kumar Padhy*, Bolin Chetia, Sasmita Mishra, Anita Pati, Parameswar Krishnan Iyer

**Expedient route to CDE ring system of schintrialctones through tandem ROM–RCM of a norbornene derivative**

pp 2754–2757

Kiran Matcha, Soumitra Maity, Chanchal K. Malik, Subrata Ghosh*

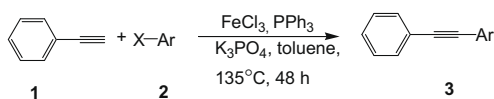


A concise synthesis of a highly functionalized tricyclic ring system representing the CDE core of nortriterpenoid schintrialctones A and B is described using a tandem ROM–RCM of a norbornene derivative.

**FeCl₃/PPh₃-catalyzed Sonogashira coupling reaction of aryl iodides with terminal alkynes**

pp 2758–2761

Dinesh N. Sawant, Pawan J. Tambade, Yogesh S. Wagh, Bhalchandra M. Bhanage*

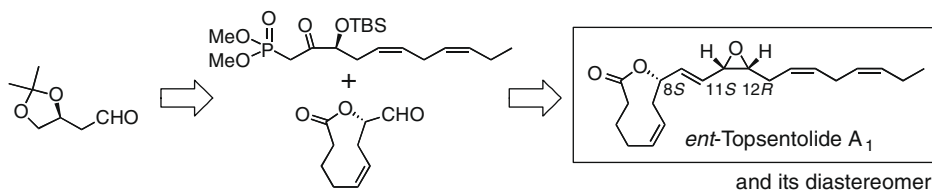


Conditions for a FeCl₃/PPh₃-catalyzed and palladium-, copper-, amine free-Sonogashira coupling reaction of aryl halides with terminal alkynes are reported.

**Determination of the absolute configuration of marine oxylipin topsentolide A₁ by the synthesis of the enantiomer of the natural product**

pp 2762–2764

Munetaka Kobayashi, Ken Ishigami, Hidenori Watanabe*



Determination of the absolute configuration of nodulisporacid A by the concise synthesis of four stereoisomers via three-component reaction and one-pot construction of the framework

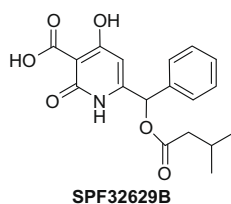
pp 2765–2767

Tatsunobu Sumiya, Ken Ishigami, Hidenori Watanabe*

**The first total synthesis of potent human chymase inhibitor SPF32629B via regioselective bromination and O-acylation strategy**

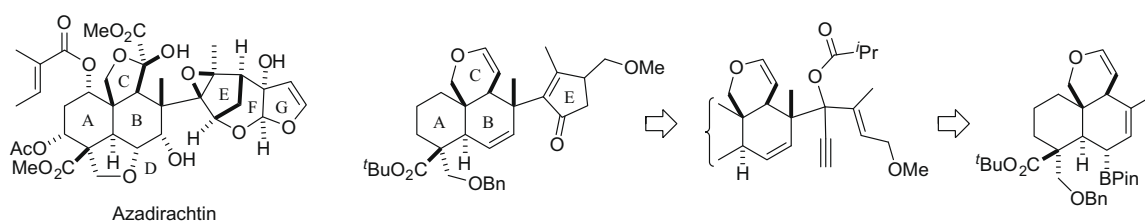
pp 2768–2770

Srinivasa Rao Vegi, Shanthaveerappa K. Boovanahalli*, Balaram Patro*, K. Mukkanti

**Synthetic studies on azadirachtin: stereoselective construction of the ABCE ring system**

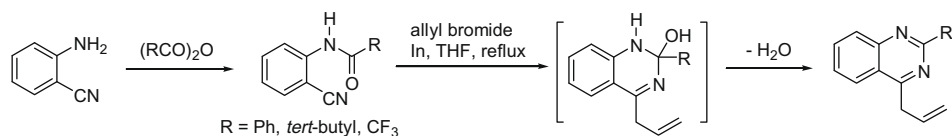
pp 2771–2773

Daisuke Nakagawa, Masaaki Miyashita, Keiji Tanino*

**Synthesis of 4-allylquinazolines from *N*-(2-cyanoaryl)amides via the In-mediated allylation of nitrile and dehydrative cyclization cascade**


pp 2774–2777

Sung Hwan Kim, Se Hee Kim, Taek Hyeon Kim, Jae Nyoun Kim*



OTHER CONTENT**Announcement****p 2778**

*Corresponding author

 Supplementary data available via ScienceDirect**COVER**

A novel chiral Schiff base macrocycle having an azobenzene chromophore and its reduced form have been synthesized. The former formed photo-responsive benzene gel, while the latter included several aromatic guest molecules inside the host cavity.

Tetrahedron Letters **2010**, 51, 2693–2696.

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