



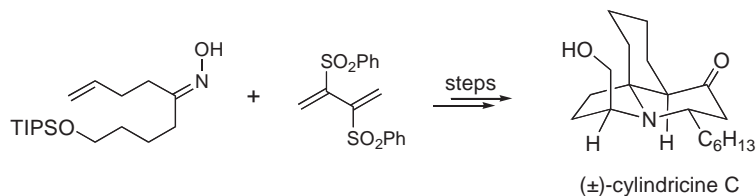
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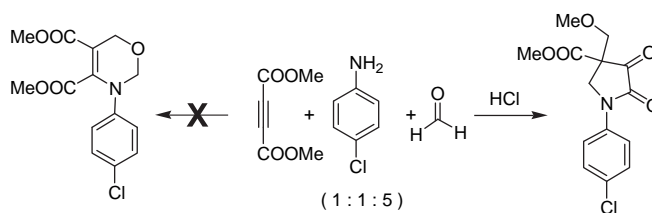
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 Andrew C. Flick, Maria José Arevalo Caballero, Albert Padwa*

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 A. Srikrishna*, M. Sridharan, K.R. Prasad

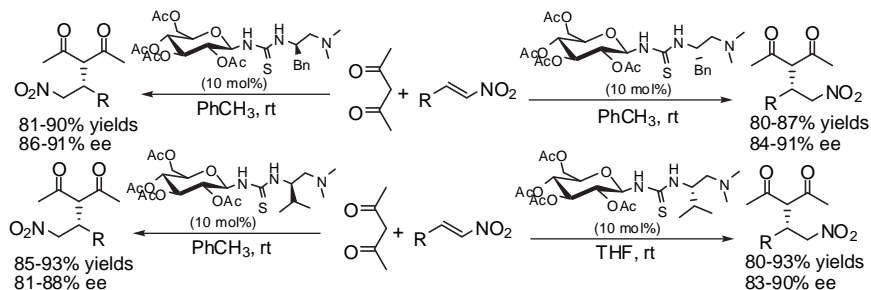
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Doubly stereocontrolled asymmetric conjugate addition of acetylacetone to nitroolefins catalyzed by bifunctional tertiary amine–thiourea catalysts derived from both acyclic α -amino acids and carbohydrates

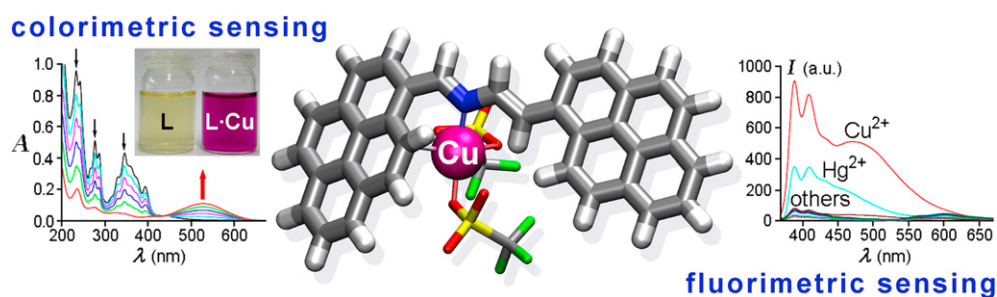
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Xue-Wei Pu, Fang-Zhi Peng, Hong-Bin Zhang, Zhi-Hui Shao*


A new bis(pyrenyl)azadiene-based probe for the colorimetric and fluorescent sensing of Cu(II) and Hg(II)

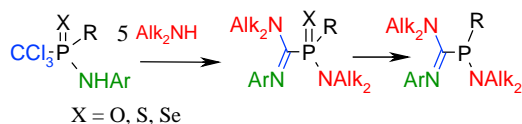
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Rosario Martínez, Arturo Espinosa, Alberto Tárraga*, Pedro Molina*


Convenient method for the synthesis of C-phosphorylated N-arylformamidines

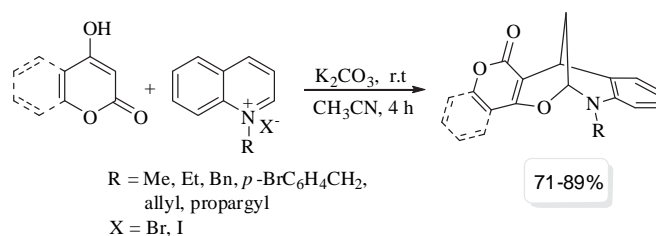
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Anatoliy Marchenko, Georgyi Koidan, Anastasiya Hurieva, Anatoliy Merkulov, Aleksandr Pinchuk, Aleksandr Yurchenko, Aleksandr Kostyuk*


Synthesis of eight-membered hydroquinolines related to alkaloid skeletons via addition of 4-hydroxycoumarin or 4-hydroxypyran-2-one to quinolinium salts

pp 3678–3681

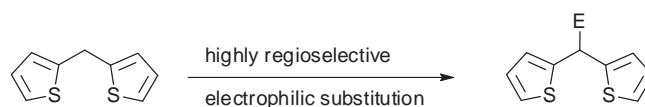
Firouz Matloubi Moghaddam*, Zohreh Mirjafary, Hamdollah Saeidian, Salman Taheri, Bardia Soltanzadeh



Highly regioselective lithiation of inter-ring carbon of bis(thien-2-yl)methane: a general *meso*-elaboration protocol

pp 3682–3686

Kamaljit Singh*, Amit Sharma

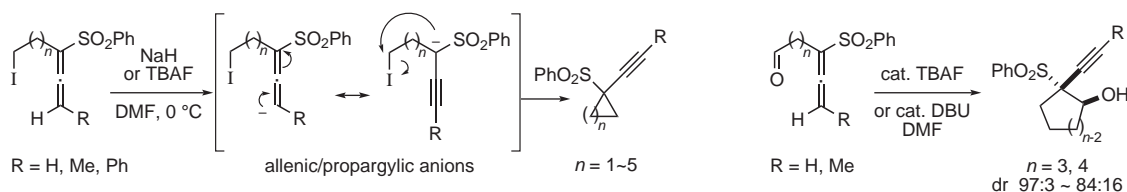


Bis(thien-2-yl)methane is regioselectively lithiated at the inter-ring methylene carbon using dimsyl anion in THF at 0 °C; quenching with appropriate electrophiles furnishes *meso*-elaborated derivatives exclusively with synthetic advantage.

Chemistry of allenic/propargylic anions generated by base treatment of sulfonyllallenes: synthesis of 1-alkynyl-1-sulfonylcycloalkanes and cycloalkanols

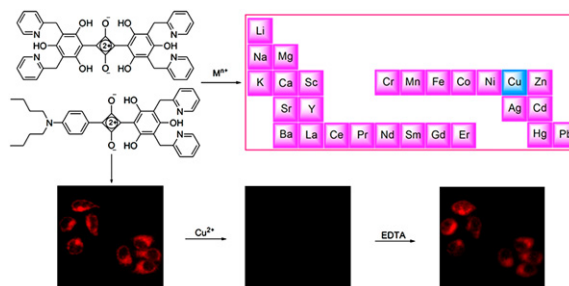
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Shinji Kitagaki, Satoshi Teramoto, Yuu Ohta, Harumi Kobayashi, Mika Takabe, Chisato Mukai*

**Squaraine-based colorimetric and fluorescent sensors for Cu^{2+} -specific detection and fluorescence imaging in living cells**

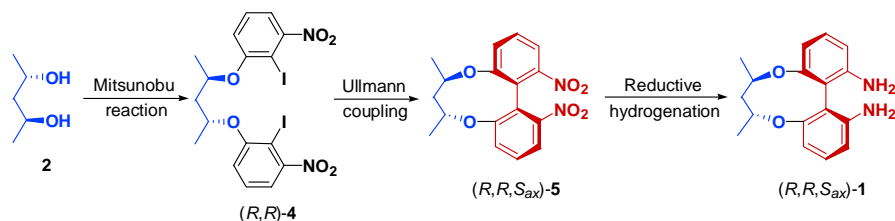
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Weida Wang, Afu Fu, Jingsong You, Ge Gao, Jingbo Lan*, Lijuan Chen*

**Axial [6,6'-(2,4-pentadioxy)]-1,1'-biphenyl-2,2'-diamine (PD-BIPHAM): practical synthesis and applications in asymmetric hydrogenation**

pp 3702–3706

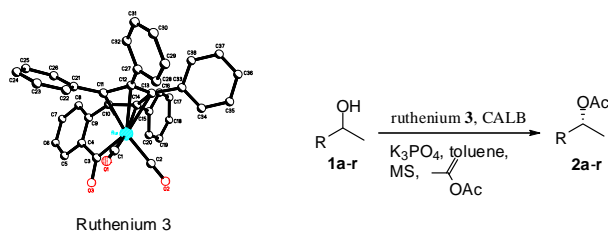
Chun-Jiang Wang*, Zhong-Ping Xu, Xiang Wang, Huai-Long Teng



Synthesis of a novel ruthenium(II) complex and its unique behaviors in enzymatic dynamic kinetic resolution of secondary alcohols

pp 3707–3716

Qihui Chen, Chengye Yuan*

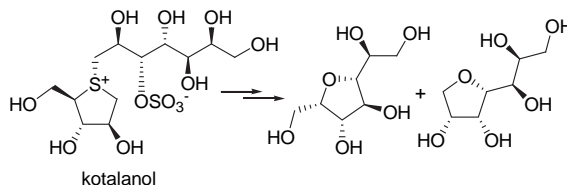


A detailed mechanism involving the C–H bond activation was presented for the synthesis of complex **3** by capturing the crucial intermediate in this pathway. Related mechanistic studies were also carried out to illustrate this type of dynamic kinetic resolution (DKR) catalyst in racemizing secondary alcohols. More substrates also have been tested in this DKR system.

Characteristic alkaline catalyzed degradation of kotalanol, a potent α -glucosidase inhibitor isolated from Ayurvedic traditional medicine *Salacia reticulata*, leading to anhydroheptitols: another structural proof

pp 3717–3722

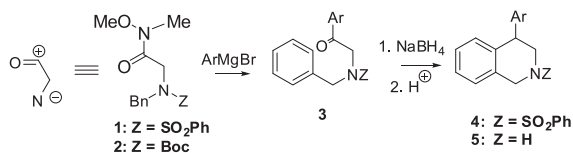
Osamu Muraoka*, Weijia Xie, Satomi Osaki, Ayumi Kagawa, Genzoh Tanabe, Mumen F.A. Amer, Toshie Minematsu, Toshio Morikawa, Masayuki Yoshikawa



Weinreb amide based synthetic equivalents for convenient access to 4-aryl-1,2,3,4-tetrahydroisoquinolines

pp 3723–3729

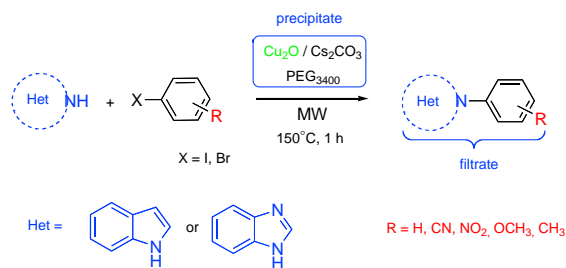
Harikrishna Kommidi, Sivaraman Balasubramaniam, Indrapal Singh Aidhen*



PEG₃₄₀₀-Cu₂O-Cs₂CO₃: an efficient and recyclable microwave-enhanced catalytic system for ligand-free Ullmann arylation of indole and benzimidazole

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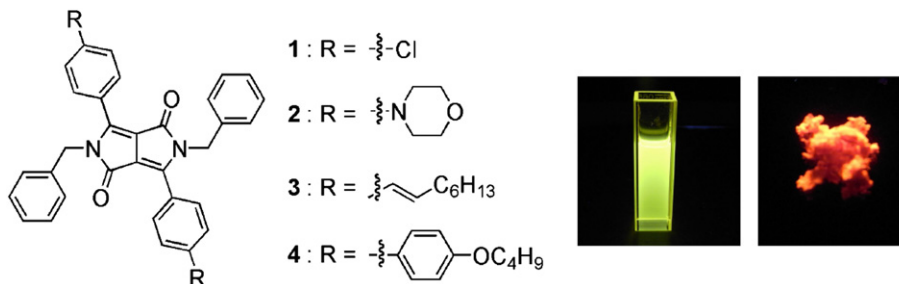
Evelina Colacino, Laurent Villebrun, Jean Martinez, Frédéric Lamaty*



Solid-state structure and optical properties of highly fluorescent diketopyrrolopyrrole derivatives synthesized by cross-coupling reaction

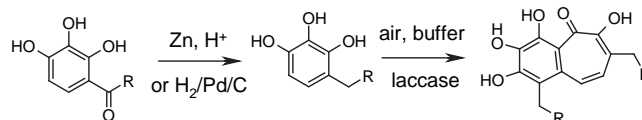
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Junpei Kuwabara, Takuya Yamagata, Takaki Kanbara*

**An efficient chemo-enzymatic approach towards variably functionalized benzotropolones**

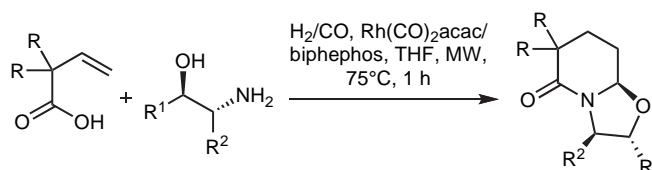
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Gabi Baisch, Barbara Wagner, Reinhold Öhrlein*

**Rhodium-catalyzed multicomponent synthesis of chiral oxazolopiperidines**

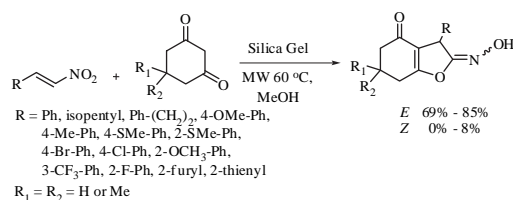
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Jessica Salvadori, Etienne Airiau, Nicolas Girard, André Mann, Maurizio Taddei*

**A mild and convenient one-pot two-step synthesis of hydroxy iminodihydrobenzofurans mediated by silica gel under microwave activation conditions**

pp 3754–3760

Deepak Kumar Barange, B. Rama Raju, Veerababurao Kavala, Chun-Wei Kuo, Yu-Chen Tu, Ching-Fa Yao*

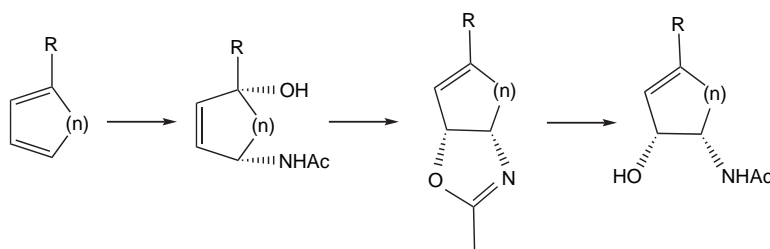


A convenient one-pot two-step procedure for the synthesis of hydroxyiminodihydrobenzofurans assisted by microwave irradiation in presence of silica gel is described herein. Cyclic 1,3-dicarbonyl compounds reacted smoothly with various nitroolefins to furnish hydroxyiminodihydrobenzofuran derivatives as the mixture of *E* and *Z* isomers. Clean reaction conditions, no work-up procedure, easy isolation and good yields of the products are the salient features of the methodology.

Synthesis of 1,2- and 1,4-amino alcohols from 1,3-dienes via oxazines. Rearrangements of 1,4-amino alcohol derivatives to oxazines

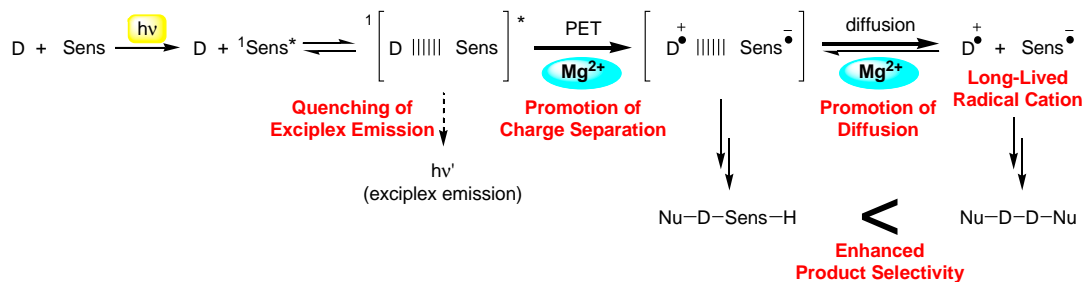
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Lukas Werner, Jason Reed Hudlicky, Martina Wernerova, Tomas Hudlicky*


Effects of magnesium salts on photoinduced electron transfer reaction between ammonia, 2,5-dimethylhexa-2,4-diene, and 9-cyanophenanthrene

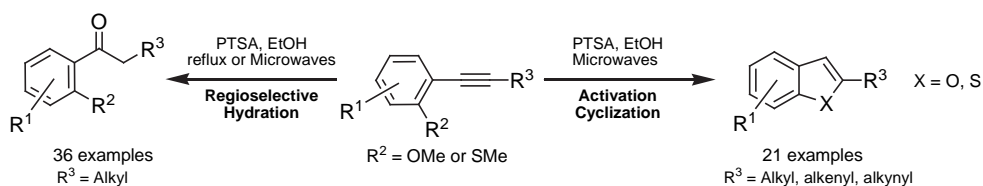
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Maki Ohashi, Yusuke Kano, Hiroshi Ikeda, Kazuhiko Mizuno*


***p*-Toluenesulfonic acid-promoted selective functionalization of unsymmetrical arylalkynes: a regioselective access to various arylketones and heterocycles**

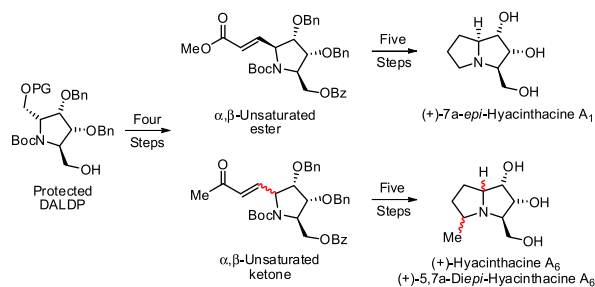
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Maud Jacobert, Olivier Provot*, Jean-François Peyrat, Abdallah Hamze, Jean-Daniel Brion, Mouâd Alami*

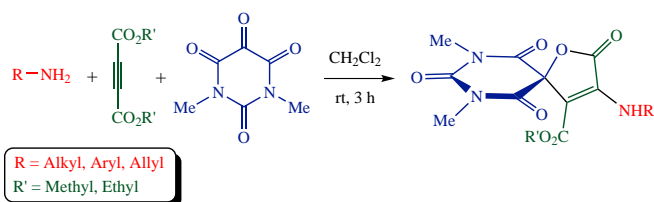

Total synthesis of natural (+)-hyacinthacine A₆ and non-natural (+)-7*a*-*epi*-hyacinthacine A₁ and (+)-5,7*a*-*diepi*-hyacinthacine A₆

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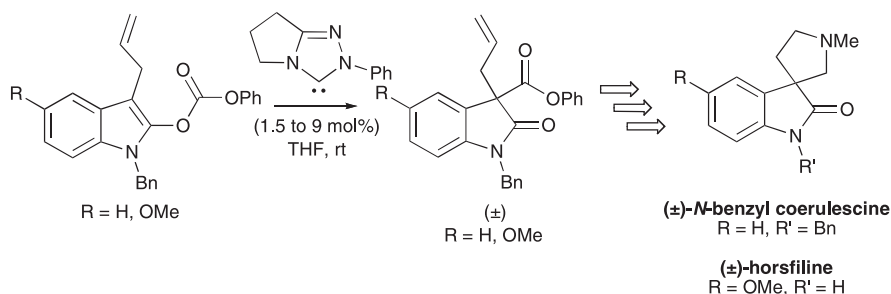
Isidoro Izquierdo*, María T. Plaza, Juan A. Tamayo*, Francisco Franco, Fernando Sánchez-Cantalejo



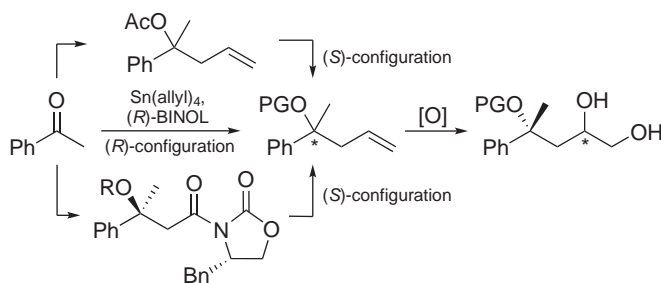
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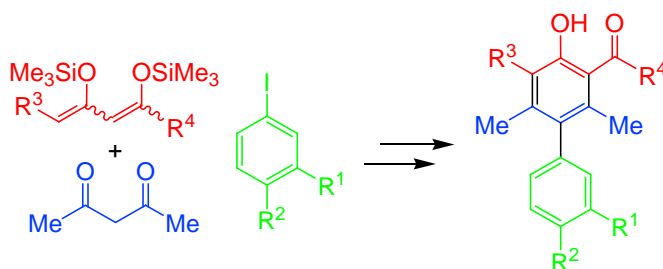
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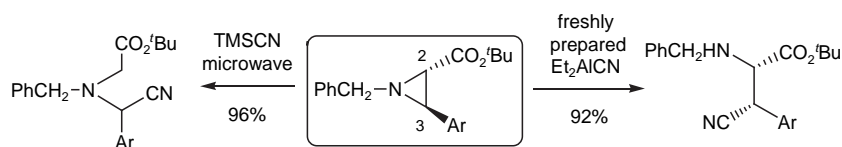
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Ring-opening reaction of unactivated 3-arylaziridine-2-carboxylates with nitrile reagents

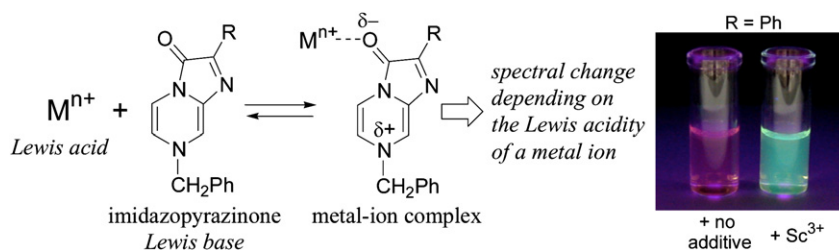
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Yukiko Hayashi, Takuya Kumamoto, Masatoshi Kawahata, Kentaro Yamaguchi, Tsutomu Ishikawa*

**Colorimetric and fluorometric sensing of the Lewis acidity of a metal ion by metal-ion complexation of imidazo[1,2-a]pyrazin-3(7H)-ones**

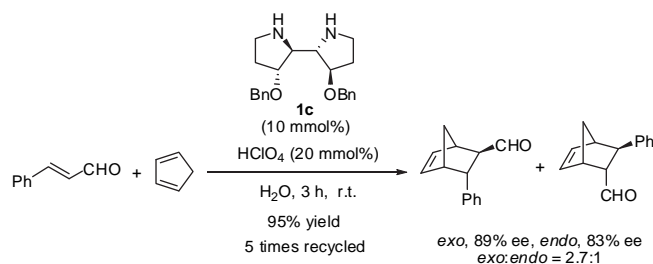
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Takashi Hirano*, Takashi Sekiguchi, Daisuke Hashizume, Hiroshi Ikeda, Shojiro Maki, Haruki Niwa

**Highly active asymmetric Diels–Alder reactions catalyzed by C_2 -symmetric bipyrrrolidines: catalyst recycling in water medium and insight into the catalytic mode**

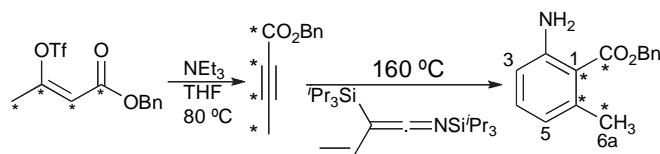
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Yuanhui Ma, Shangbin Jin, Yuhe Kan, Yong Jian Zhang*, Wanbin Zhang*

**Mechanistic elucidation of ketenimine–butynoate cycloaddition reaction: role of biradical intermediates in isotopomeric purity of benzyl (1,1a,6,6a- $^{13}\text{C}_4$)-6-methyl anthranilic ester**

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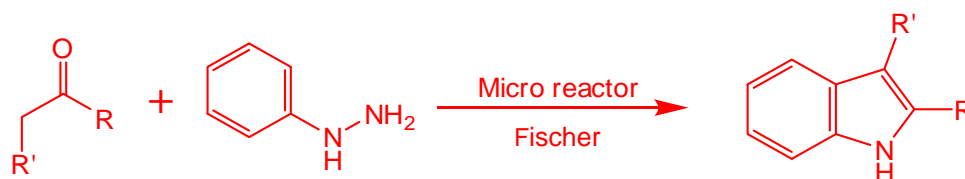
Armando Navarro-Vázquez*, José-Lorenzo Alonso-Gómez, Johan Lugtenburg, María-Magdalena Cid*



Synthesis of substituted indoles using continuous flow micro reactors

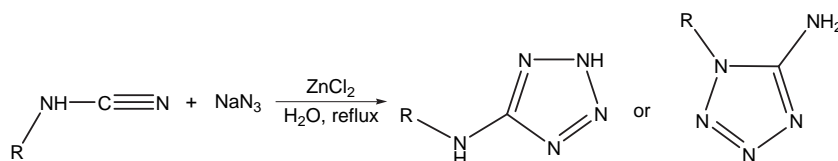
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Ben Wahab, George Ellames, Stephen Passey, Paul Watts*

**Efficient synthesis of arylaminotetrazoles in water**

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Davood Habibi, Mahmoud Nasrollahzadeh*, Ali Reza Faraji, Yadollah Bayat



*Corresponding author

Supplementary data available via ScienceDirect

COVER

N-heterocyclic carbene-promoted *O*- to *C*-carboxyl transfer is used to prepare a 3-allyl-3-phenoxy-carbonyl-oxindole in excellent yield and with good catalytic efficiency, which is readily converted in seven steps to (+)-horsfiline.

Details can be found in Tetrahedron, **2010**, 66, 3801–3813.

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