



## Tetrahedron Vol. 66, Issue 7, 2010

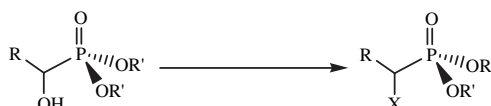
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## REPORT

Synthesis of  $\alpha$ -functionalized phosphonates from  $\alpha$ -hydroxyphosphonates

Sara Sobhani\*, Zahra Tashrif

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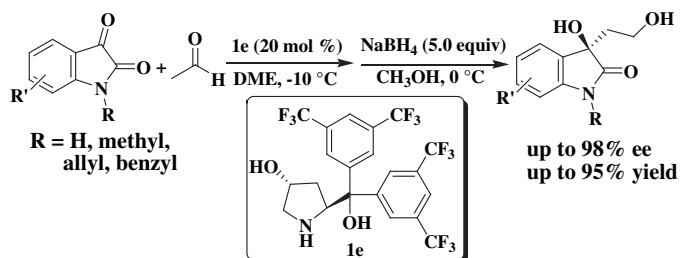


## ARTICLES

Highly enantioselective aldol reaction of acetaldehyde and isatins only with 4-hydroxydiarylprolinol as catalyst: concise stereoselective synthesis of (*R*)-convolutamydines B and E, (–)-donaxaridine and (*R*)-chimonamide

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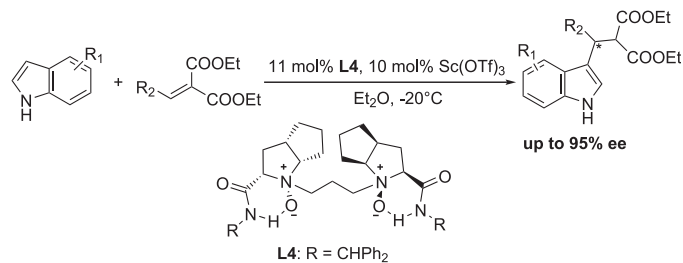
Wen-Bing Chen, Xi-Lin Du, Lin-Feng Cun, Xiao-Mei Zhang, Wei-Cheng Yuan\*



***N,N'*-Dioxide-scandium(III) complex catalyzed highly enantioselective Friedel–Crafts alkylation of indole to alkylidene malonates**

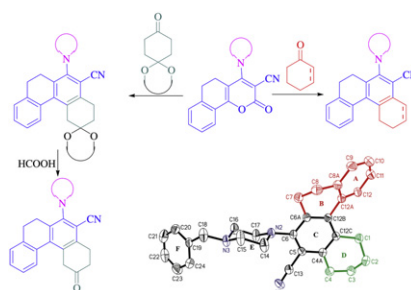
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Yanling Liu, Xin Zhou, Deju Shang, Xiaohua Liu, Xiaoming Feng\*

**A convenient synthesis of partially reduced benzo[*c*]phenanthrenes, its ketals and ketones**

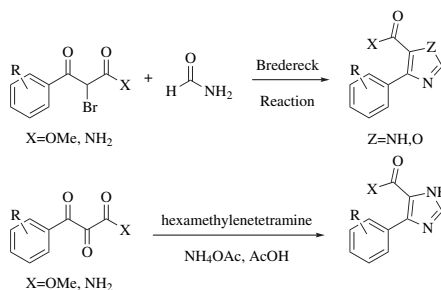
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Ramendra Pratap\*, Resmi Raghunandan, Abhishek Kumar Mishra, P.R. Maulik, V.P. Gupta, Vishnu Ji Ram\*

**Facile structural elucidation of imidazoles and oxazoles based on NMR spectroscopy and quantum mechanical calculations**

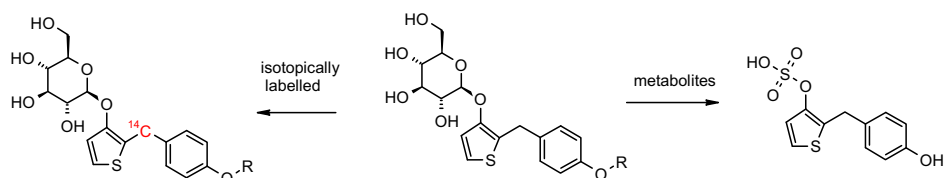
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Michal Weitman, Lena Lerman, Shmuel Cohen, Abraham Nudelman\*, Dan T. Major\*, Hugo E. Gottlieb\*

**Synthesis of isotopically labelled SGLT inhibitors and their metabolites**

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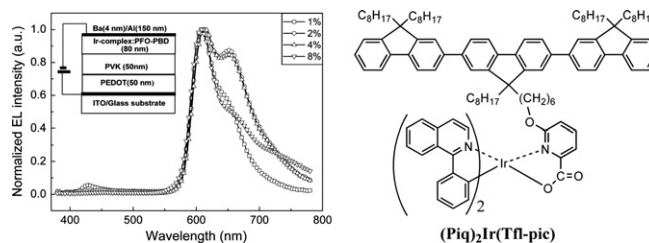
Volker Derdau\*, Thorsten Fey, Jens Atzrodt



### Synthesis, opto-physics, and electroluminescence of cyclometalated iridium (III) complex with alkyltrifluorene picolinic acid

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Yafei Wang, Hua Tan, Yu Liu, Chenxian Jiang, Zhengyong Hu, Meixiang Zhu, Lei Wang, Weiguo Zhu\*, Yong Cao



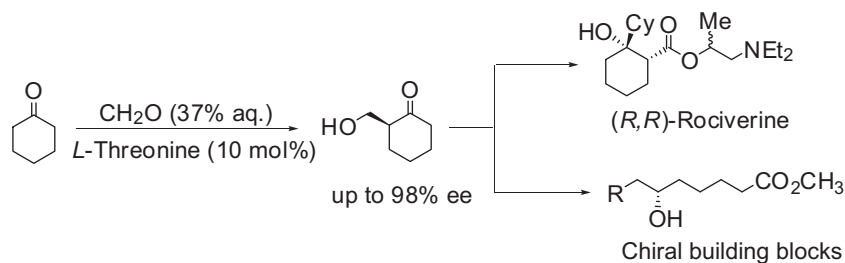
A red-emitting Ir (III) complex displayed a maximum current efficiency of 6.28  $\text{cdA}^{-1}$  in the PFO-PBD hosted devices.



### L-Threonine-catalysed asymmetric $\alpha$ -hydroxymethylation of cyclohexanone: application to the synthesis of pharmaceutical compounds and natural products

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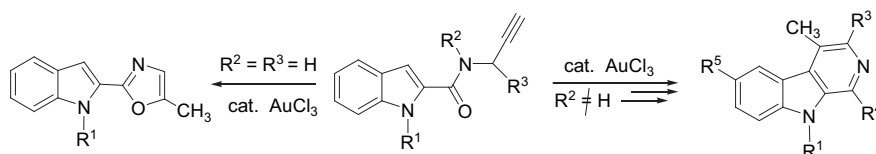
Anqi Chen\*, Jin Xu, Winnie Chiang, Christina L.L. Chai\*



### Synthesis of substituted $\beta$ -carboline via gold(III)-catalyzed cycloisomerization of *N*-propargylamides


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Guido Verniest, Dylan England, Norbert De Kimpe, Albert Padwa\*



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\*Corresponding author

 Supplementary data available via ScienceDirect**COVER**

The Au(III)Cl<sub>3</sub>-catalyzed cycloisomerization of indolyl tethered *N*-propargylamides towards the synthesis of new oxazoles and  $\beta$ -carbolinones is described. The resulting  $\beta$ -carbolinones were further transformed into substituted  $\beta$ -carbolines, which are core structures found in many natural products, such as harmine, ervolanine and lavendamycine alkaloids. Detailed can be found in Tetrahedron, **2010**, 66, 1496–1502.

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