

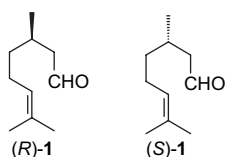
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REPORT

Citronellal as key compound in organic synthesis

pp 6671–6712

Eder J. Lenardão,\* Giancarlo V. Botteselle, Francisco de Azambuja, Gelson Perin and Raquel G. Jacob\*

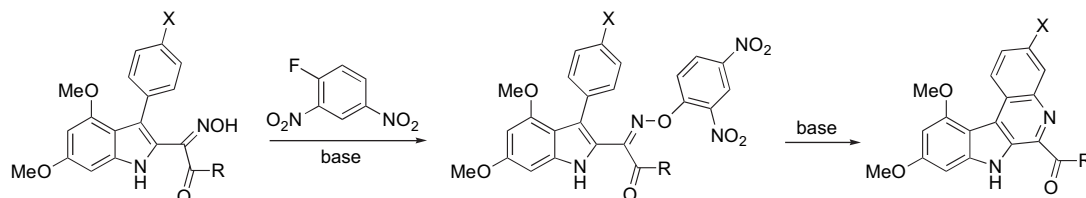


ARTICLES

Synthesis of indolo[2,3-c]quinolines from 3-arylindole-2-ketoximes

pp 6713–6719

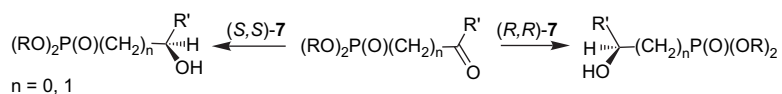
Tutik Dwi Wahyuningsih, Naresh Kumar and David StC Black\*



Efficient method for the asymmetric reduction of  $\alpha$ - and  $\beta$ -ketophosphonates

pp 6720–6731

V. V. Nesterov and O. I. Kolodiazhnyi\*



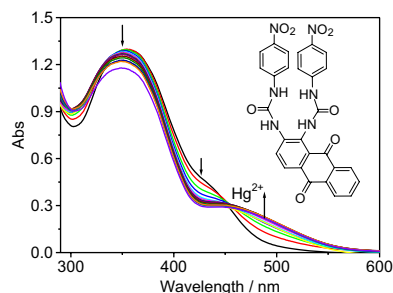
An efficient and versatile method for the asymmetric reduction of  $\alpha$ - and  $\beta$ -ketophosphonates using chiral reactant **7** derived from sodium borohydride and D-(–)- or L-(+)-tartaric acid is developed. The methodology was applied for the preparation of bioactive products: 2,3-epoxyphosphonates, 2,3-aziridinophosphonates, phospho-GABOB, phospho-carnitine, etc.

### A highly selective ratiometric chemosensor for Hg<sup>2+</sup> based on the anthraquinone derivative with urea groups

pp 6732–6736

Hong Yang, Zhi-Guo Zhou, Jia Xu, Fu-You Li,\* Tao Yi and Chun-Hui Huang\*

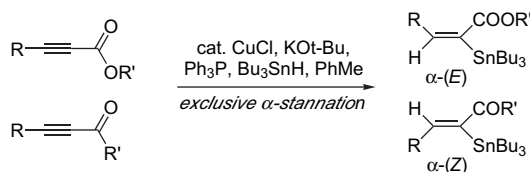
The anthraquinone derivative with electron-withdrawing group (–NO<sub>2</sub>) showed a high selectivity for Hg<sup>2+</sup>.



### Regioselective hydrostannylation of activated alkynes catalyzed by in situ generated copper hydride

pp 6737–6740

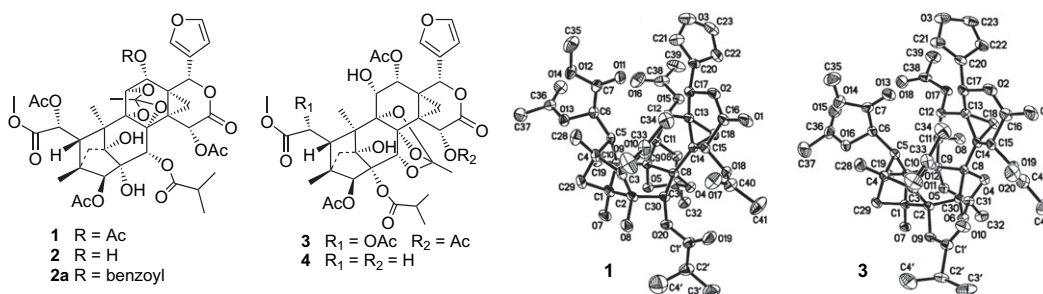
Ru Miao, Shuoliang Li and Pauline Chiu\*



### Tabularisins A–D, phragmalin *ortho* esters with new skeleton isolated from the seeds of *Chukrasia tabularis*

pp 6741–6747

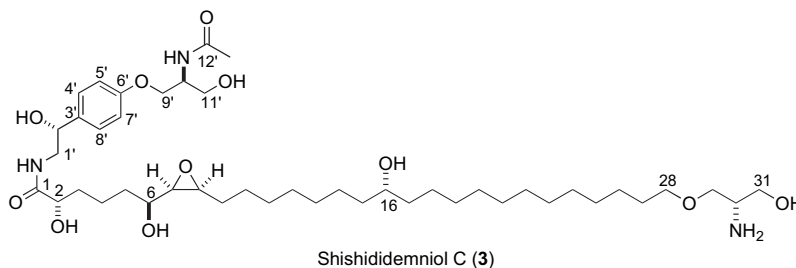
Cheng-Qi Fan, Xiao-Ning Wang, Sheng Yin, Chuan-Rui Zhang, Fang-Dao Wang and Jian-Min Yue\*



### The structures of three new shishididemniols from a tunicate of the family Didemnidae

pp 6748–6754

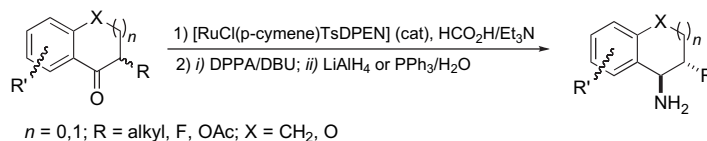
Hirotugu Kobayashi, Yoshinari Miyata, Kohtaro Okada, Tsuyoshi Fujita, Takashi Iwashita, Yoichi Nakao, Nobuhiro Fusetani and Shigeki Matsunaga\*



**Enantioselective synthesis of *cis*- $\alpha$ -substituted cycloalkanols and *trans*-cycloalkyl amines thereof**

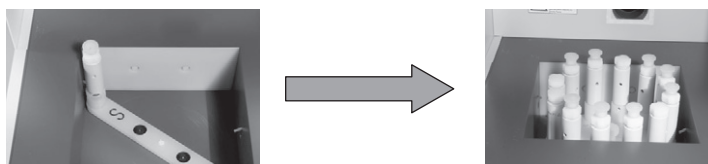
pp 6755–6763

Rosario Fernández,\* Abel Ros, Antonio Magriz, Hansjörg Dietrich and José M. Lassaletta\*

**Use of a scientific microwave apparatus for rapid optimization of reaction conditions in a monomode function and then substrate screening in a multimode function**

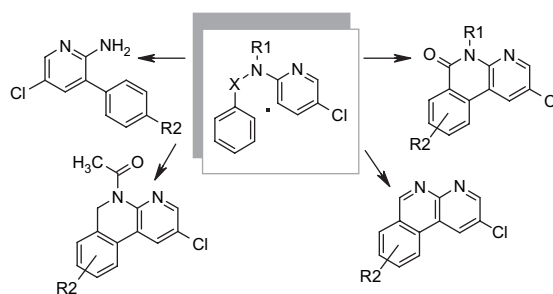
pp 6764–6773

Nicholas E. Leadbeater\* and Jason R. Schmink

**Pyridinium *N*-2'-pyridylaminide: radical cyclization for the synthesis of benzonaphthyridine derivatives**

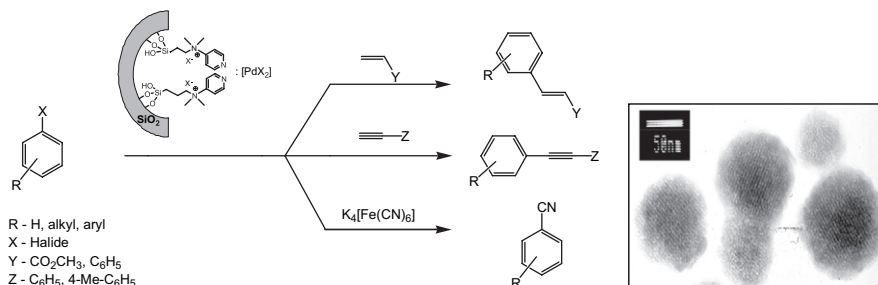
pp 6774–6783

Araceli Núñez, Aránzazu Sánchez, Carolina Burgos\* and Julio Alvarez-Builla\*

**Palladium containing nanostructured silica functionalized with pyridine sites: a versatile heterogeneous catalyst for Heck, Sonogashira, and cyanation reactions**

pp 6784–6790

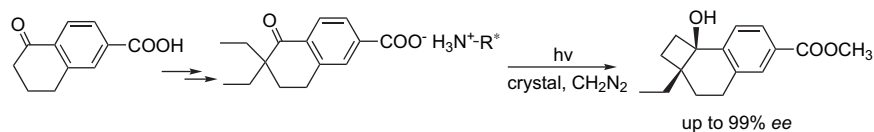
Vivek Polshettiwar, Peter Hesemann\* and Joël J. E. Moreau\*



## Asymmetric synthesis of tricyclic tetralin derivatives via an intramolecular photoreaction

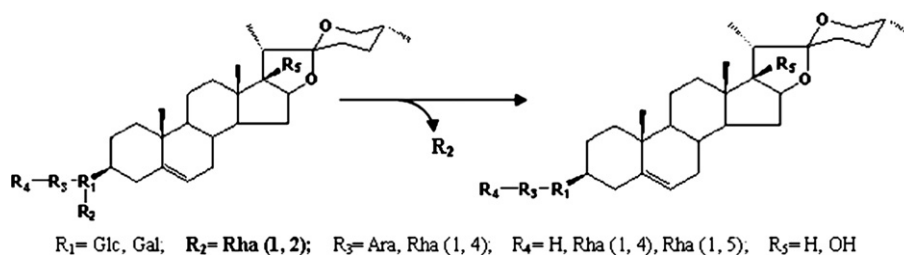
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Chao Yang, Wu Jiong Xia\* and John R. Scheffer\*

The substrate specificity of a glucoamylase with steroidal saponin-rhamnosidase activity from *Curvularia lunata*

pp 6796–6812

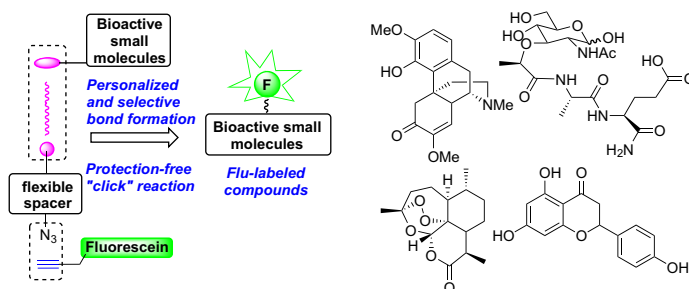
Bing Feng, Li-ping Kang, Bai-ping Ma,\* Bo Quan, Wen-bin Zhou, Yong-ze Wang, Yu Zhao, Yi-xun Liu and Sheng-qi Wang\*



## An inexpensive fluorescent labeling protocol for bioactive natural products utilizing Cu(I)-catalyzed Huisgen reaction

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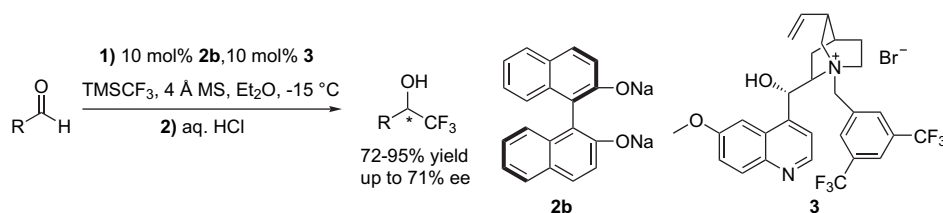
Yan-Hong Zhang, Zheng-Xi Gao, Chun-Long Zhong, Hai-Bin Zhou, Lei Chen, Wen-Min Wu, Xin-Jun Peng and Zhu-Jun Yao\*



## Enantioselective trifluoromethylation of aromatic aldehydes catalyzed by combinatorial catalysts

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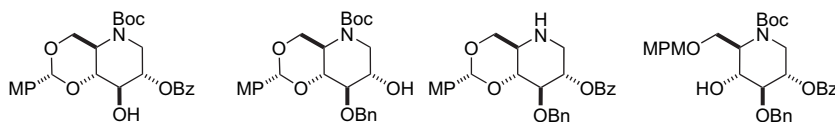
Haitao Zhao, Bo Qin, Xiaohua Liu and Xiaoming Feng\*



**Selective protecting group manipulations on the 1-deoxynojirimycin scaffold**

pp 6827–6834

Elisa Danieli, Jérôme Lalot and Paul V. Murphy\*

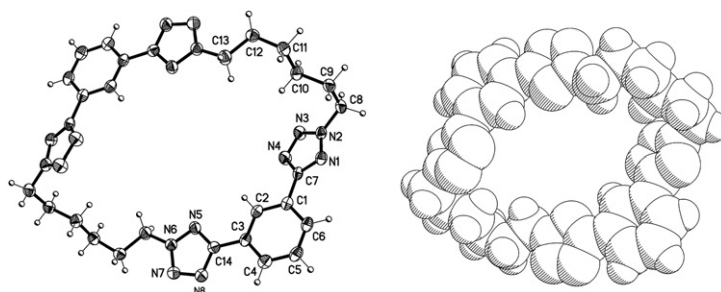


The synthesis of intermediates with the potential for preparation of bioactive compounds based on 1-deoxynojirimycin is described. MP=4-methoxyphenyl; MPM=methoxyphenylmethyl.

**Synthesis and characterisation of tetra-tetrazole macrocycles**

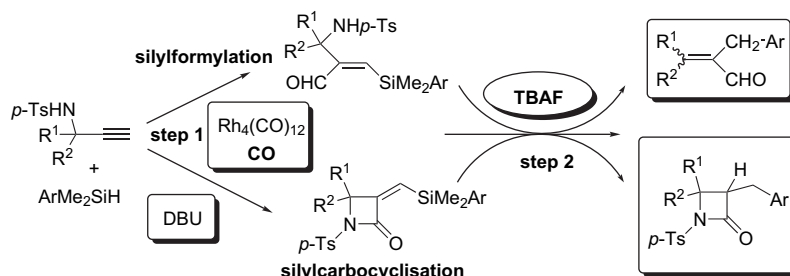
pp 6835–6842

Andrew D. Bond, Adrienne Fleming, Fintan Kelleher, John McGinley,\* Vipa Prajapati and Signe Skovsgaard

**Silylation–desilylation of propargyl amides: rapid synthesis of functionalised aldehydes and  $\beta$ -lactams**

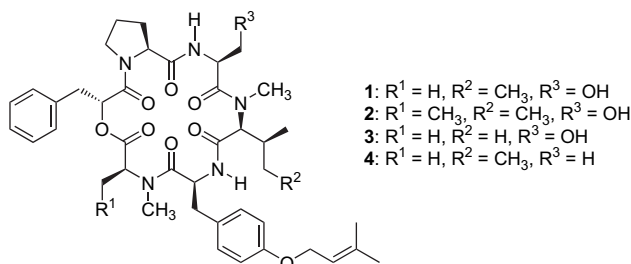
pp 6843–6854

Laura Antonella Aronica, Giulia Valentini, Anna Maria Caporusso and Piero Salvadori\*

**Antiplasmodial and antiviral cyclohexadepsipeptides from the endophytic fungus *Pullularia* sp. BCC 8613**

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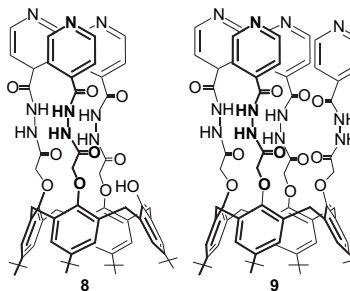
Masahiko Isaka,\* Pitchapa Berkaew, Kamolphan Intereya, Somjit Komwijit and Thiptiwa Sathitkunanon



### Synthesis and extraction properties of new ‘proton-switchable’ tri- and tetra-substituted calix[4]arene derivatives bearing pyridinium units pp 6861–6865

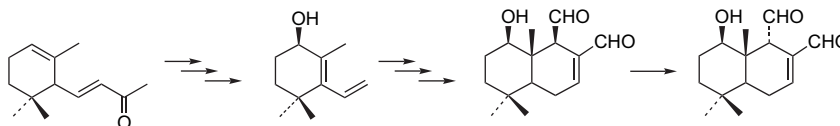
Mustafa Tabakci,\* Shahabuddin Memon and Mustafa Yilmaz

The article describes the synthesis and evaluation of alkali/transition metal cations and dichromate anion extraction abilities of new ‘proton-switchable’ tri- and tetra-substituted *p*-*tert*-butyl-calix[4]arene amides (**8** and **9**) bearing pyridinium moieties.



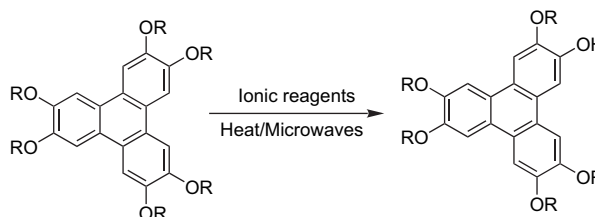
### Enantioselective synthesis of 1-(*R*)-hydroxypolygodial and its 9 $\alpha$ epimer, 1-(*R*)-hydroxyisotadeonal pp 6866–6873

Carmela Della Monica, Giorgio Della Sala, Irene Izzo, Luciano De Petrocellis, Vincenzo di Marzo and Aldo Spinella\*



### Synthesis of monohydroxy-functionalized triphenylene discotics: green chemistry approach pp 6874–6878

Santanu Kumar Pal, Hari Krishna Bisoyi and Sandeep Kumar\*

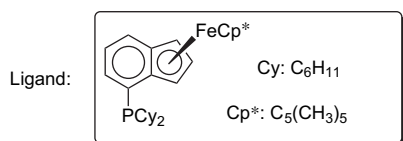
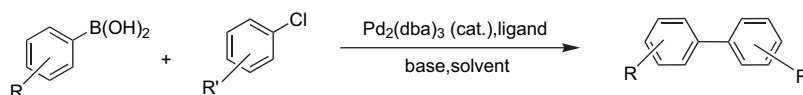


Ionic reagents are used to prepare monohydroxypentaalkoxytriphenylenes, valuable precursors for the synthesis of a variety of discotic liquid crystals, using thermal as well as microwave heating in good yield.



### Efficient palladium-catalyzed Suzuki–Miyaura coupling of aryl chlorides with arylboronic acids using benzoferrocenyl phosphines as supporting ligands pp 6879–6886

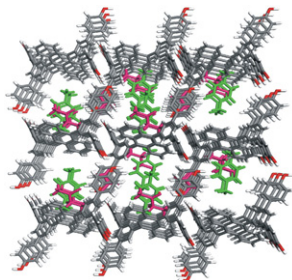
Muralidhara Thimmaiah and Shiyue Fang\*



High yield and short reaction time for electron-rich and -poor aryl chlorides and chloropyridines

**Ladder type supramolecular assembly and gas adsorption profile under reduced pressure based on hydrogen bonded *m*-tetraphenyl derivative of anthracene** pp 6887–6894

Kazuhiko Akimoto, Hideo Suzuki, Yoshihiko Kondo, Ken Endo, Uichi Akiba, Yasuhiro Aoyama and Fumio Hamada\*



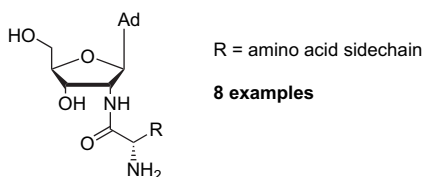
**Dimethyl carbonate: an environmentally friendly solvent for hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)/methyltrioxorhenium (CH<sub>3</sub>ReO<sub>3</sub>, MTO) catalytic oxidations** pp 6895–6900

Roberta Bernini,\* Enrico Mincione, Maurizio Barontini, Fernanda Crisante, Giancarlo Fabrizi and Augusto Gambacorta

Some oxidations of organic compounds with the hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>)/methyltrioxorhenium (CH<sub>3</sub>ReO<sub>3</sub>, MTO) catalytic system have been performed in dimethyl carbonate, an environmentally friendly solvent. Reactions proceeded in good conversions and yields.

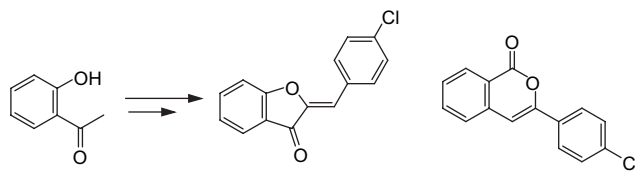
**A practical synthesis of 2'-aminoacylamino-2'-deoxyadenosines** pp 6901–6908

Gavin O'Mahony, Andreas Sundgren, Sara Svensson and Morten Grøtli\*



**Synthesis, structural revision, and biological activities of 4'-chloroaurone, a metabolite of marine brown alga *Spatoglossum variabile*** pp 6909–6914

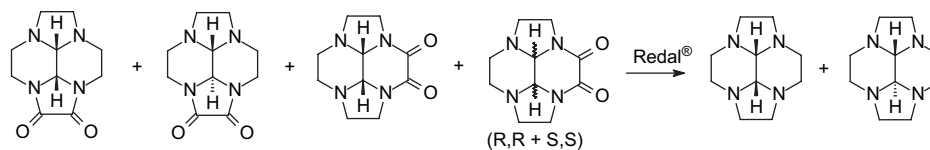
Somepalli Venkateswarlu, Gopala K. Panchagnula, Aditya L. Gottumukkala and Gottumukkala V. Subbaraju\*



**Synthesis and NMR characterization of *cis* and *trans* decahydro-2a,4a,6a,8a-tetraazacyclopent[*fg*]acenaphthylene. Solid state structure of the *trans* stereoisomer. Modelling studies**

pp 6915–6923

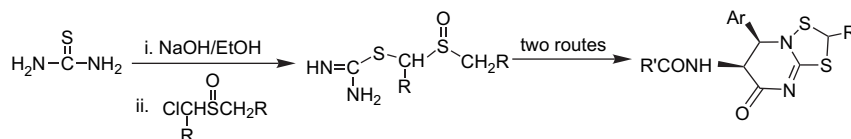
Maria Argese,\* Marino Brocchetta, Mario De Miranda, Andrea Ferraris, Paolo Dapporto, Paola Paoli and Patrizia Rossi



**Thiourea to bicyclic scaffolds: highly regio- and stereoselective routes to dithiazolopyrimidines**

pp 6924–6931

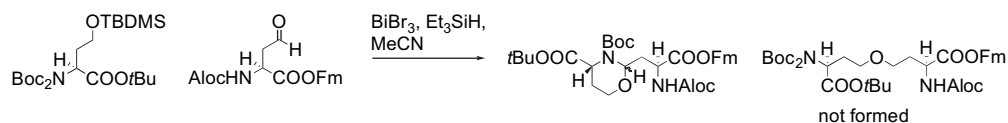
Lal Dhar S. Yadav\* and Vijai K. Rai



**An unexpected product from attempted reductive etherification of a silyl alcohol with an aldehyde**

pp 6932–6937


Christopher G. H. White and Alethea B. Tabor\*





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\*Corresponding author

 Supplementary data available via ScienceDirect**COVER**

Palladium containing nanostructured hybrid silica bearing pyridine binding sites appeared as a versatile heterogeneous catalyst for Heck, Sonogashira and cyanation reactions. In Heck and Sonogashira cross-coupling reactions, unchanged catalytic activity was observed in at least five reaction cycles. *Tetrahedron* **2007**, *63*, 6784–6790.

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