

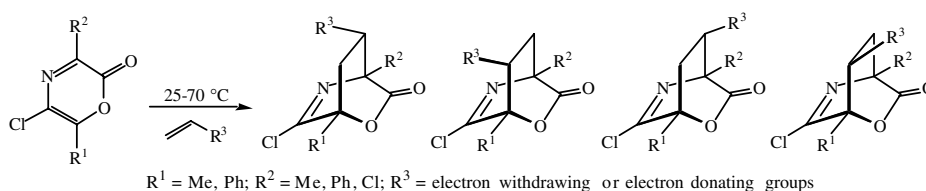
Contents

COMMUNICATIONS

**2(*H*)-1,4-Oxazin-2-ones as ambident azadienes**

pp 3995–3998

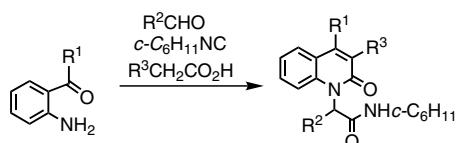
Kamyar Afarinkia,\* Akmal Bahar, Judi Neuss and Andrea Ruggiero



**One-pot synthesis of quinolin-2-(1*H*)-ones via tandem Ugi–Knoevenagel condensations**

pp 3999–4001

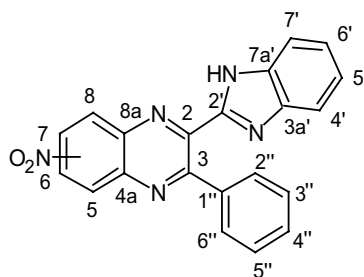
Stefano Marcaccini, Roberto Pepino, M. Cruz Pozo, Sara Basurto, María García-Valverde and Tomás Torroba\*



**Application of quantum chemical calculations of <sup>13</sup>C NMR chemical shifts to quinoxaline structure determination**

pp 4003–4007

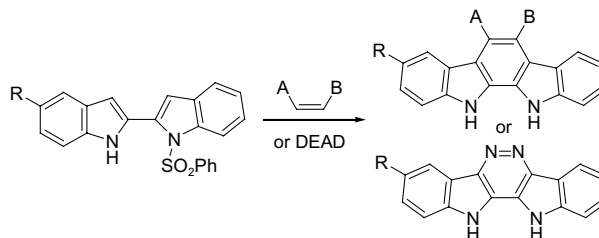
Alsu Balandina, Vakhid Mamedov, Xavier Franck, Bruno Figadère and Shamil Latypov\*



**Formal [4+2] cycloaddition reactions of *N*-sulfonyl-2,2'-biindoles: synthesis of indolo[2,3-*a*]carbazoles and indigo azines**

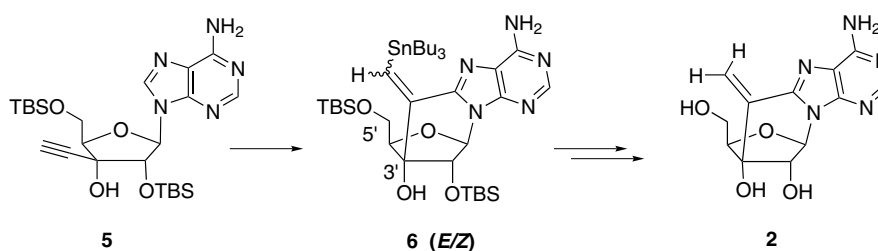
pp 4009–4012

Jeffrey T. Kuethe\* and Ian W. Davies


**Radical cyclisation mediates the synthesis of a new base-ribose carbon bridged adenosine**

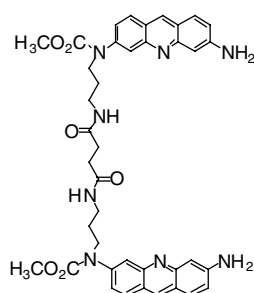
pp 4013–4015

Pascal Lang, Alain Mayer, Pierre Jung, Denis Tritsch, Jean-François Biellmann and Alain Burger\*


**Synthesis, DNA intercalation and europium(III)-triggered DNA photocleavage by a bis-proflavine succinamide conjugate**

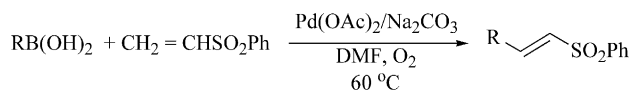
pp 4017–4020

Juan-Félix Espinosa, María-José Fernández, Kathryn B. Grant,\* Lourdes Gude, María-Melia Rodrigo and Antonio Lorente\*


**Convenient synthesis of  $\alpha,\beta$ -unsaturated sulfones via a Mizoroki–Heck reaction of arylboronic acids with phenyl vinyl sulfones**

pp 4021–4022

George W. Kabalka\* and Sankar K. Guchhait

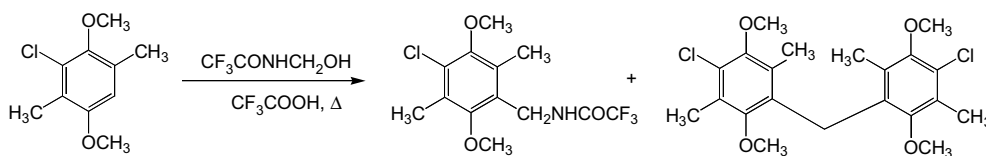


Palladium acetate catalyzed Mizoroki–Heck reactions of arylboronic acids with phenyl vinyl sulfones afford  $\alpha,\beta$ -unsaturated sulfones in good yields.

**Unexpected dimeric products from the amidomethylation of pentasubstituted benzenes**

pp 4023–4026

David Wiedenfeld,\* Mark A. Minton, Vladimir N. Nesterov, David R. Glass and Crystal L. Montoya

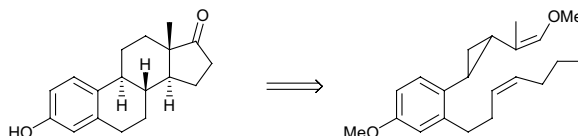


An isomeric series of unexpected diarylmethane products with flexible substituents, isolated from amidomethylation reactions of *p*-dimethoxybenzene derivatives, was analyzed by X-ray crystallography to reveal novel solid-state structures, two of which have identical elemental cell parameters.

**A new total synthesis of (±)-oestrone**

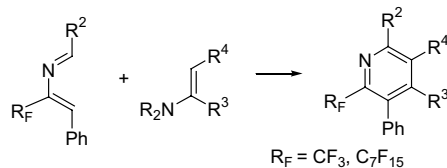
pp 4027–4030

Gerald Pattenden,\* L. Krishnakanth Reddy and Affo Walter

**Regioselective synthesis of fluoroalkyl pyridine derivatives from 3-fluoroalkyl substituted 2-aza-1,3-butadienes**

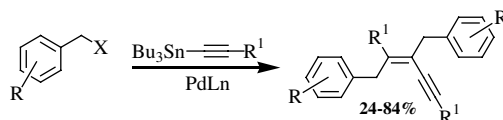
pp 4031–4034

Francisco Palacios,\* Concepción Alonso, Gloria Rubiales and Maite Villegas

**Highly substituted enynes via a palladium-catalyzed tandem three carbon–carbon bonds forming reaction procedure from benzyl halides and alkynyl tributyltin reagents**

pp 4035–4038

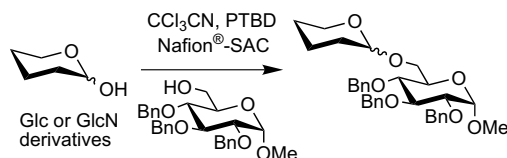
Laurent Romain Pottier, Jean-François Peyrat, Mouâd Alami\* and Jean-Daniel Brion



**One-pot preparation and activation of glycosyl trichloroacetimidates: operationally simple glycosylation induced by combined use of solid-supported, reactivity-opposing reagents**

pp 4039–4042

Masato Oikawa,\* Tatsushi Tanaka, Naohiro Fukuda and Shoichi Kusumoto

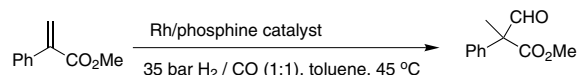


By combined use of solid-supported reactivity-opposing reagents, glycosyl trichloroacetimidate formation and glycosylation can be effected in one pot.

**Rhodium catalysed hydroformylation of unsaturated esters**

pp 4043–4045

Matthew L. Clarke

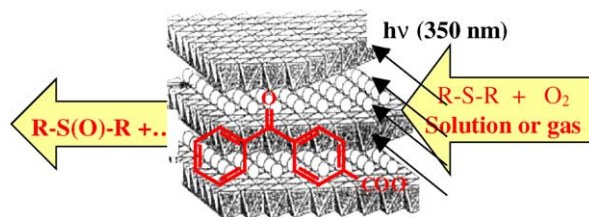


A quaternary selective rhodium catalysed hydroformylation of methyl acrylate to give 1,3-aldehydic esters has been developed.


**4-Benzoylbenzoate intercalated in layered double hydroxides: a new catalyst for photo-oxidation of sulfides in solution and in the gas phase**

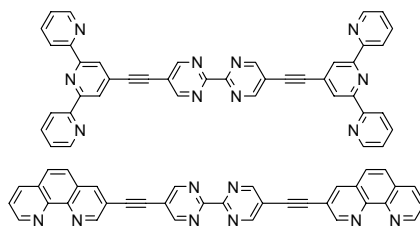
pp 4047–4050

Thierry Pigot, Thomas Arbitre, Hervé Martinez and Sylvie Lacombe\*


**Segmented multitopic ligands constructed from bipyrimidine, phenanthroline, and terpyridine modules**

pp 4051–4055

Raymond Ziessel\* and Christophe Stroh

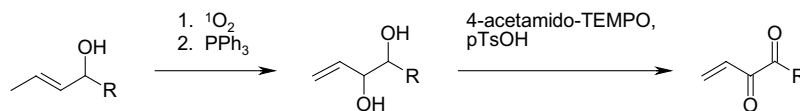


New ligands carrying various chelating platforms have been stepwise prepared using palladium cross-coupling reactions; in some cases a metallo-synthon is used to produce the final molecules.

**Synthesis of vinyl 1,2-diketones**

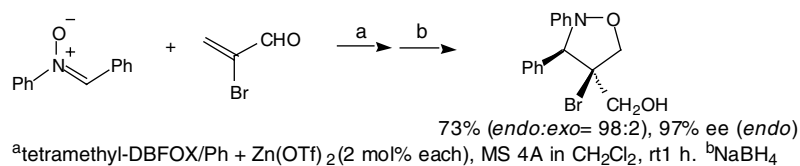
pp 4057–4059

Lothar W. Habel, Sigrid De Keersmaecker, Joos Wahlen, Pierre A. Jacobs and Dirk E. De Vos\*

**Improved catalysis of nitrene 1,3-dipolar cycloadditions by solving the aggregation issue of the DBFOX/Ph-transition metal complexes**

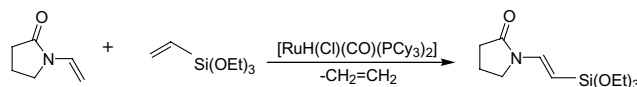
pp 4061–4063

Moto Shirahase, Shuji Kanemasa\* and Masayuki Hasegawa

**Stereoselective synthesis of amides possessing a vinylsilicon functionality via a ruthenium catalyzed silylative coupling reaction**

pp 4065–4068

Bogdan Marciniec,\* Dariusz Chadyniak and Stanisław Krompiec

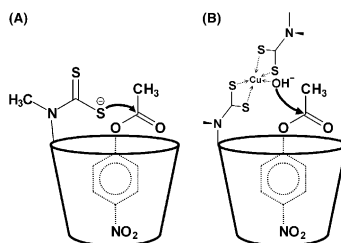


Stereoselective syntheses of *E-N*-2-(silyl)vinylamides via silylative coupling of vinylamides with vinyltrisubstituted silanes catalyzed by the Ru(complex) [RuH(Cl)(CO)(PCy<sub>3</sub>)<sub>2</sub>] are described.

**Esterase activity of cyclodextrin dithiocarbamates**

pp 4069–4071

Alex Fragoso,\* Roberto Cao and Maysa Baños

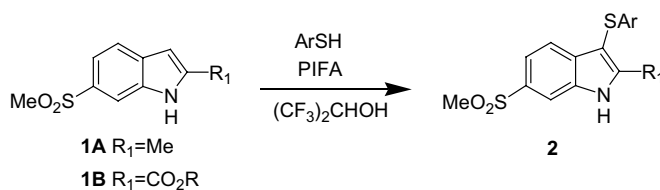


Dithiocarbamates attached to cyclodextrins and their Cu(II) complexes possess hydrolase activity towards activated esters.

## A new synthesis of 3-arylthioindoles as selective COX-2 inhibitors using PIFA

pp 4073–4075

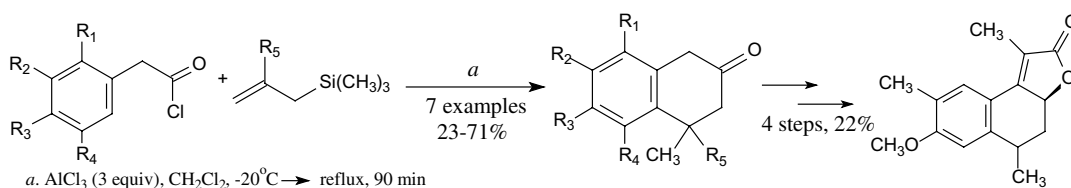
Jeffrey A. Campbell,\* Chris A. Broka, Leyi Gong, Keith A. M. Walker and Jin-Hai Wang



## A new approach to (±)-heritonin. The preparation of β-tetralones from allylsilanes and acid chlorides

pp 4077–4080

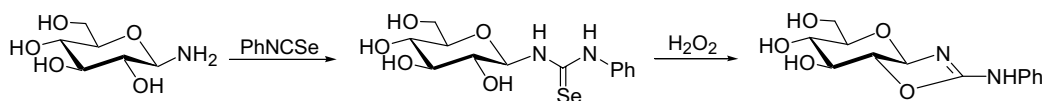
Claudio C. Silveira,\* Alessandra Machado, Antonio L. Braga and Eder João Lenardão



## Synthesis of O-protected glycosyl selenoureas. A new access to bicyclic sugar isoureas

pp 4081–4084

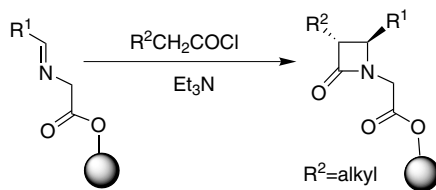
José G. Fernández-Bolaños,\* Óscar López, Víctor Ulgar, Inés Maya and José Fuentes



## Efficient and selective solid-phase synthesis of trans 3-alkyl β-lactams from nonactivated acid chlorides

pp 4085–4088

Carina M. L. Delpiccolo and Ernesto G. Mata\*

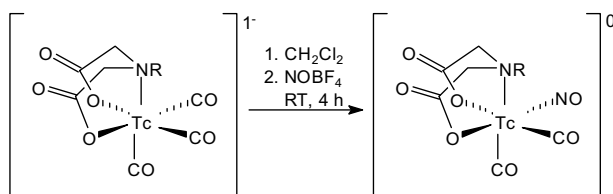


A procedure for a rapid access to diverse 3-alkyl β-lactams by solid-phase methodology is described.

**[M(CO)<sub>2</sub>(NO)]<sup>2+</sup>, a new core in bioorganometallic chemistry: model complexes of [Re(CO)<sub>2</sub>(NO)]<sup>2+</sup> and [<sup>99m</sup>Tc(CO)<sub>2</sub>(NO)]<sup>2+</sup>**

pp 4089–4092

D. Rattat,\* A. Verbruggen, H. Schmalle, H. Berke and R. Alberto



**Boron tribromide mediated debenylation of benzylamino and benzyloxy groups**

pp 4093–4095

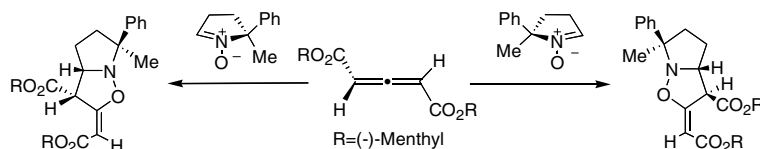
Ekaterina Paliakov and Lucjan Strekowski\*



**1,3-Dipolar addition of nitrones to symmetrically substituted allenes: for the determination of absolute configuration of chiral allenes by NMR spectroscopy**

pp 4097–4099

Takahiro Kawai, Ko-hei Kodama, Takashi Ooi and Takenori Kusumi\*

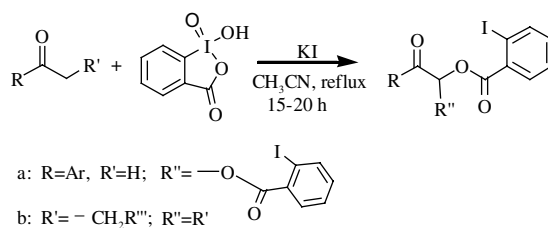


5-Methyl-5-phenylpyrroline *N*-oxide was proved to be a useful 1,3-dipole for determining the absolute configuration of chiral allenes by means of NMR spectroscopy.

**A new useful entry of IBX: the synthesis and structure of  $\alpha$ -(2-iodobenzoyloxy)ketones**

pp 4101–4104

Zhen-liang Pan, Xue-yuan Liu and Yong-min Liang\*



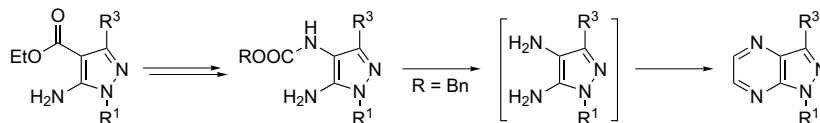
Bi- or mono-substituted  $\alpha$ -(2-iodobenzoyloxy)ketones can be conveniently prepared from the reaction of ketones with IBX, which is the first  $\alpha$ -oxygenation of ketones by IBX.



### Facile synthesis of 1-substituted 4,5-diaminopyrazoles and its application toward the synthesis of pyrazolo[3,4-*b*]pyrazines

pp 4105–4108

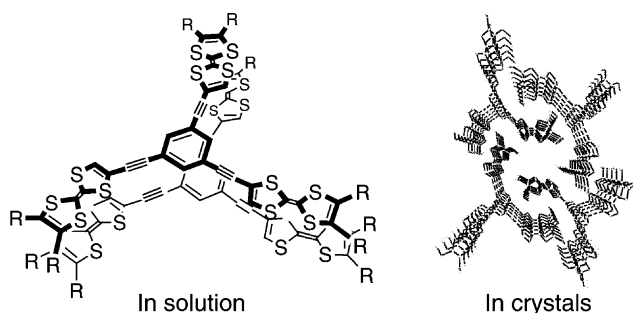
Tun-Cheng Chien, Ronald A. Smaldone and Leroy B. Townsend\*



### Aggregation of star-shaped tris(tetrathiafulvalenylethynyl) benzene in solution and in the solid state

pp 4109–4112

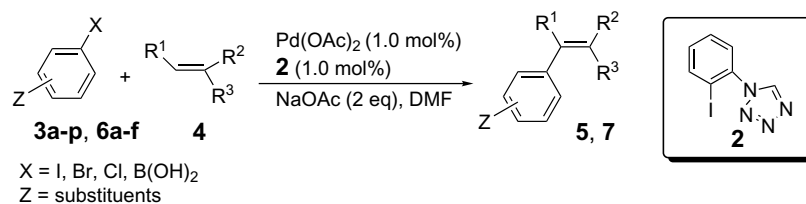
Masashi Hasegawa, Jun-ichi Takano, Hideo Enozawa, Yoshiyuki Kuwatani and Masahiko Iyoda\*



### 1-(2-Iodophenyl)-1H-tetrazole as a ligand for Pd(II) catalyzed Heck reaction

pp 4113–4116

Arun Kumar Gupta, Chung Hyun Song and Chang Ho Oh\*

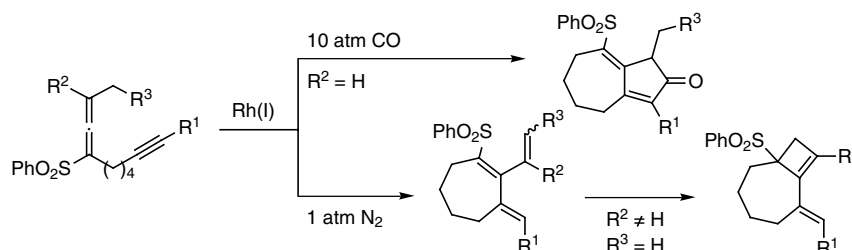


An active catalyst for Heck reaction by combination of Pd(OAc)<sub>2</sub> with the new ligand, 1-(2-iodophenyl)-1H-Tetrazole (**2**), was developed.

### Rh(I)-catalyzed ring-closing reaction of allenynes: selective construction of cycloheptene, bicyclo[5.3.0]decadienone, and bicyclo[5.2.0]nonene frameworks

pp 4117–4121

Chisato Mukai,\* Fuyuhiko Inagaki, Tatsunori Yoshida and Shinji Kitagaki

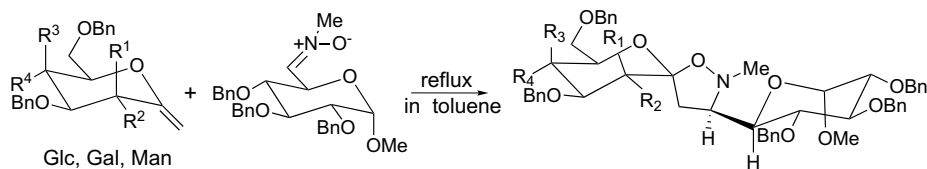




**1,3-Dipolar cycloaddition of *exo*-methylene sugars with nitron: approach to new amino-*C*-ketosyl disaccharides**

pp 4123–4126

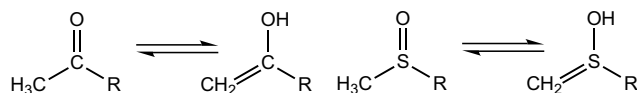
Xiaoliu Li, Hideyo Takahashi, Hiro Ohtake and Shiro Ikegami\*



**Classical versus redox tautomerism: substituent effects on the keto/enol and sulfoxide/sulfenic acid equilibria**

pp 4127–4129

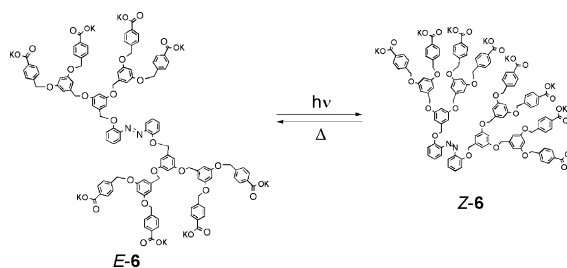
Ibon Alkorta\* and José Elguero



**Water-soluble azobenzene dendrimers**

pp 4131–4134

Atsuya Momotake and Tatsuo Arai\*



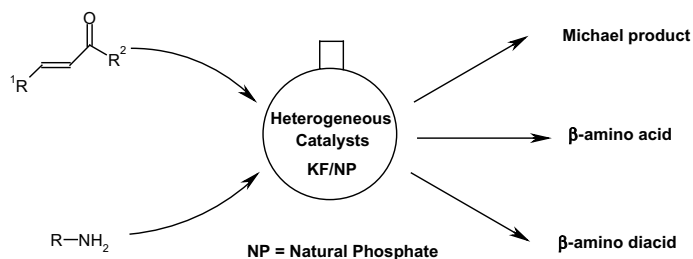
The absorption spectra and the rate of thermal *Z*-to-*E* isomerization of azobenzene dendrimers 4–6 in aqueous solution greatly depended on the generation of the dendrimer.



**Natural phosphate and potassium fluoride doped natural phosphate: efficient catalysts for the construction of a carbon–nitrogen bond**

pp 4135–4138

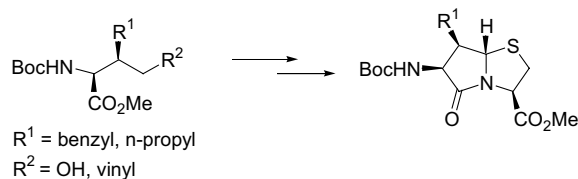
Mohamed Zahouily,\* Bouchaib Bahlaouan, Ahmed Rayadh and Saïd Sebti



**Synthesis of bicyclic dipeptide mimetics for the cholecystokinin and opioid receptors**

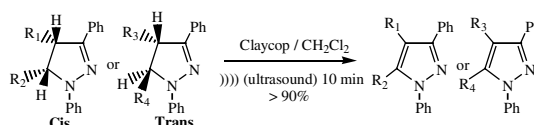
pp 4139–4142

John M. Ndungu, Xuyuan Gu, Dustin E. Gross, James P. Cain, Michael D. Carducci and Victor J. Hruby\*

**Ultrasound-accelerated aromatisation of *trans*- and *cis*-pyrazolines under heterogeneous conditions using claycop**

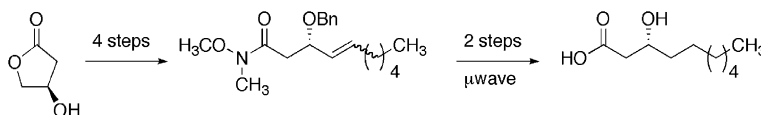
pp 4143–4148

Siham Mallouk, Khalid Bougrin, \* Hayat Doua, Rachid Benhida and Mohamed Soufiaoui\*

**Microwave-assisted cleavage of Weinreb amide for carboxylate protection in the synthesis of a (*R*)-3-hydroxyalkanoic acid**

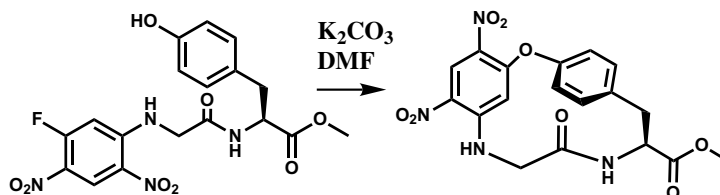
pp 4149–4152

Firoz A. Jaipuri, M. Francisca Jofre, Kimberly A. Schwarz and Nicola L. Pohl\*

**Synthesis of a novel 14-membered highly constrained cyclic peptidic scaffold**

pp 4153–4156

Christopher J. Arnusch and Roland J. Pieters\*



A highly constrained scaffold that mimics biologically active compounds was synthesized. It occupies a single conformation as found by modeling and NMR and contains several points that allow structural variation.

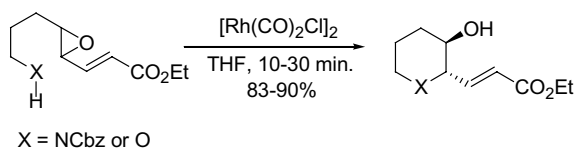




## Studies of rhodium-catalyzed ring opening of vinyl epoxides

pp 4193–4195

Jae Du Ha,\* Eun Young Shin, Seung Kyu Kang, Jin Hee Ahn and Joong-Kwon Choi



## OTHER CONTENTS

Contributors to this issue  
Instructions to contributorsp I  
pp III–VI

\*Corresponding author

①<sup>+</sup> Supplementary data available via ScienceDirect

## COVER

Topo-selective synthesis of a dinuclear phenanthroline complex bearing a central vacant site. Specific conditions: [PdCl<sub>2</sub>(PPh<sub>3</sub>)<sub>2</sub>] 6 mol%, CuI 10 mol%, *i*Pr<sub>2</sub>NH, THF, rt. See *Tetrahedron Letters* **2004**, *45*, 4051–4055.

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