

Tetrahedron Letters Vol. 50, No. 38, 2009

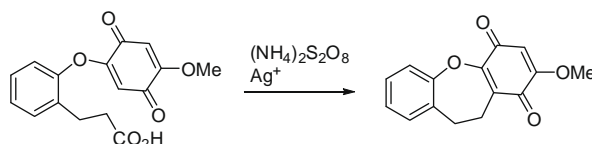
Contents

COMMUNICATIONS

Intramolecular radical cyclizations onto quinones. A direct synthesis of Bauhinoxepin J

pp 5303–5304

George A. Kraus^{*}, Aniket Thite, Feng Liu

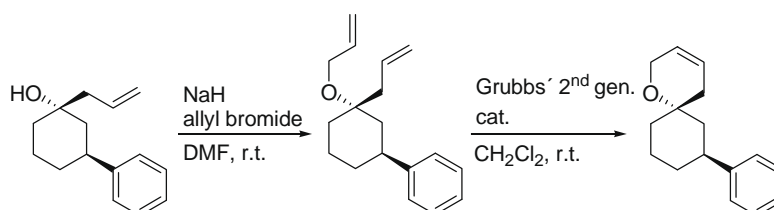


Bauhinoxepin J has been synthesized in four steps using an intramolecular persulfate-mediated radical addition to a quinone as the key step.

Ring-closing metathesis as a tool for the efficient preparation of chiral spirocyclic ethers from homoallylic alcohols

pp 5305–5307

Sara Rosenberg, Reko Leino^{*}



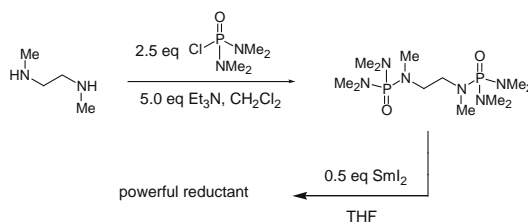
The preparation of chiral spirocyclic ethers via allylic etherification/olefin metathesis of enantiopure homoallylic alcohols is reported.



Characterization of the complex formed between samarium diiodide and the dehydro dimer of HMPA (diHMPA)

pp 5308–5310

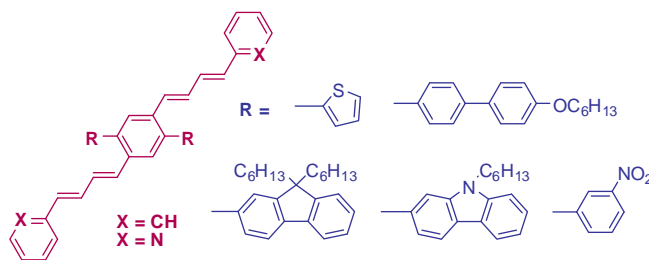
Chriss E. McDonald^{*}, Jeremy D. Ramsey, James A. Grant, Kelly A. Howerter



Synthesis and characterization of cross-conjugated cruciforms with varied functional groups

pp 5311–5314

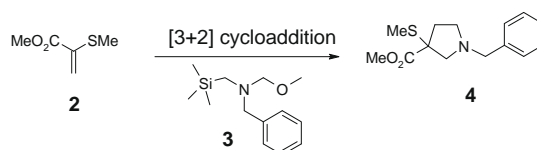
Hairong Li, Suresh Valiyaveetil *



Ten cross-conjugated cruciforms with various donor and acceptor groups on different segments are described.

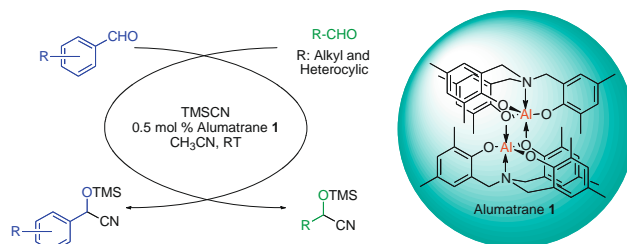
**[3+2] Cycloaddition-mediated synthesis of 3-methylsulfanyl-pyrrolidine-3-carboxylic acid methyl ester**

pp 5315–5316

Sobhana B. Boga [†], Abdul-Basit Alhassan, Alan B. Cooper, Neng-Yang Shih, Ronald J. DollMontmorillonite K-10 was found to be an efficient catalyst for the [3+2] annulation of thiomethylacrylate **2** and azomethine ylide precursor **3** towards the synthesis of novel 3-methylsulfanyl-pyrrolidine **4**.**A tricyclic aluminum alkoxide catalyst for aldehyde trimethylsilylcyanation**

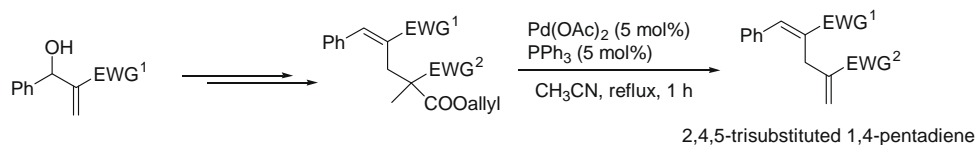
pp 5317–5321

Steven M. Raders, John G. Verkade *

Dimeric alumatrane **1** efficiently catalyzes this reaction at low concentrations (generally 0.5 mol %).**An expedient synthesis of 2,4,5-trisubstituted 1,4-pentadienes from Baylis–Hillman adducts via the Pd-catalyzed decarboxylation–elimination protocol**

pp 5322–5325

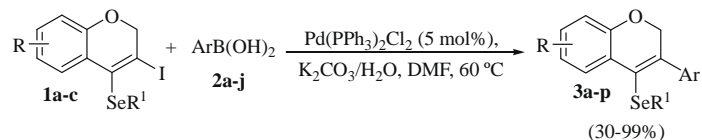
Ko Hoon Kim, Eun Sun Kim, Jae Nyoun Kim *



Synthesis of 3-aryl-4-chalcogen-2H-benzopyrans from 3-iodo-4-chalcogen-2H-benzopyrans using a Suzuki cross-coupling

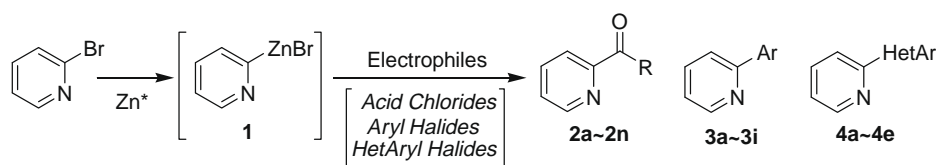
pp 5326–5328

Benhur Godoi, José S. S. Neto, Adriane Sperança, Carmine Ines Acker, Cristina W. Nogueira, Gilson Zeni *


A facile synthetic route for 2-pyridyl derivatives: direct preparation of a stable 2-pyridylzinc bromide and its copper-free and pd-catalyzed coupling reactions

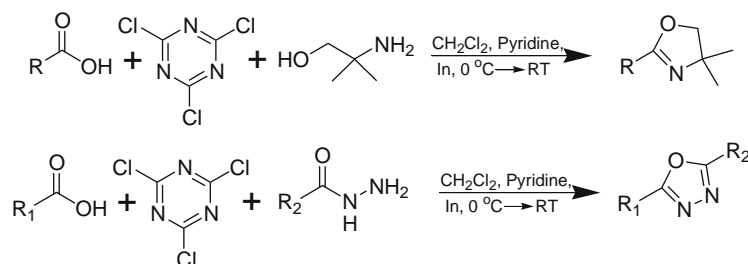
pp 5329–5331

Seung-Hoi Kim, Reuben D. Rieke *


A novel and direct synthesis of 1,3,4-oxadiazoles or oxazolines from carboxylic acids using cyanuric chloride/indium

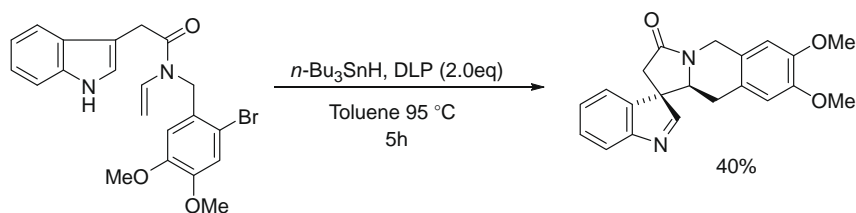
pp 5332–5335

Cyrus O. Kangani *, Billy W. Day


Synthesis of spiroindolenine derivatives by a tandem radical-oxidation process

pp 5336–5339

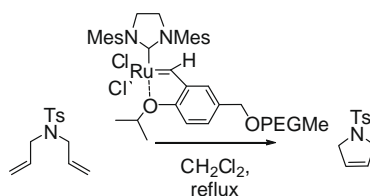
Holber Zuleta-Prada, Luis D. Miranda *



A robust and recyclable ruthenium catalyst immobilised on polyethylene glycol

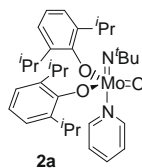
pp 5340–5343

Shazia Zaman*, Andrew D. Abell*

**An investigation into oxo analogues of molybdenum olefin metathesis complexes as epoxidation catalysts for alkenes**

pp 5344–5346

James C. Anderson*, Neil M. Smith, Michelle Robertson, Mark S. Scott

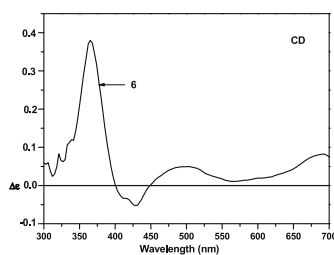


The mixed oxo-imido molybdenum complex **2a** is an effective catalyst for the epoxidation of alkenes with ^tBuOOH, being selective for electron-rich alkenes and allylic alcohols.

Novel optically active organometallic derivatives of fullerenes with non-central types of chirality in addends: synthetic and CD studies

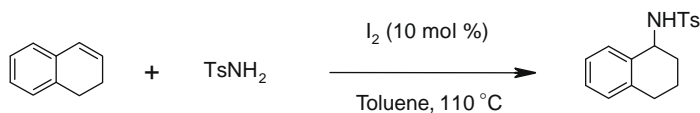
pp 5347–5350

Viatcheslav I. Sokolov*, Vasily V. Bashilov, Fedor M. Dolgushin, Natalya V. Abramova, Kyrill K. Babievsky, Allan G. Ginzburg, Pavel V. Petrovskii

**Iodine-catalyzed intermolecular hydroamination of vinyl arenes**

pp 5351–5353

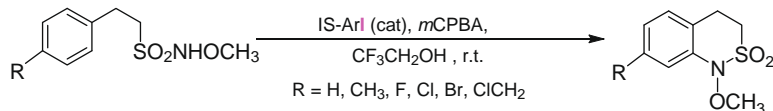
J. S. Yadav*, B. V. Subba Reddy, T. Srinivasa Rao, B. Bala M. Krishna



Ion-supported PhI-catalyzed cyclization of *N*-methoxy-2-arylethanesulfonamides with *m*CPBA

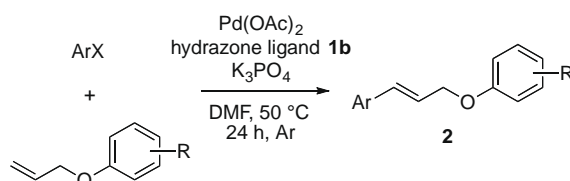
pp 5354–5357

Yoshihide Ishiwata, Hideo Togo*

**Palladium-catalyzed Mizoroki–Heck reaction of allyl aryl ethers with aryl iodides using phosphine-free hydrazone ligands**

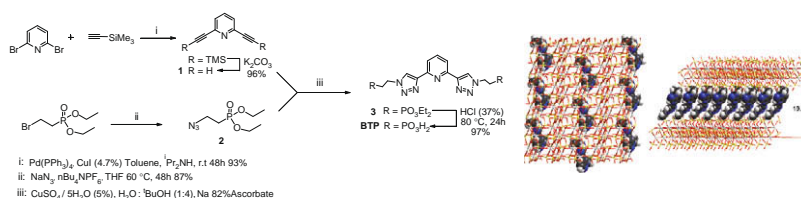
pp 5358–5360

Takashi Mino*, Hiroaki Shindo, Tomoko Kaneda, Tomoko Koizumi, Yoshio Kasashima, Masami Sakamoto, Tsutomu Fujita

**Click-chemistry-based bis-triazolylpyridine diphosphonate ligand for the sensitized luminescence of lanthanides in the solid state within the layers of γ -zirconium phosphate**

pp 5361–5363

Ernesto Brunet*, Olga Juanes, Laura Jiménez, Juan Carlos Rodríguez-Ubis*

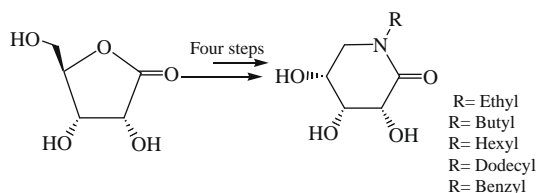


The synthesis by means of ‘click’ chemistry of a new ligand bearing the bis-triazolylpyridine motif and pendant phosphonate groups is described. The topotactic phosphate/phosphonate exchange of the ligand into gamma-zirconium phosphate led to an organic–inorganic-layered material which revealed an excellent matrix to achieve the efficient sensitization of emitting lanthanides.

Efficient synthesis of new *N*-alkyl-D-ribo-1,5-lactams from D-ribo-1,4-lactone

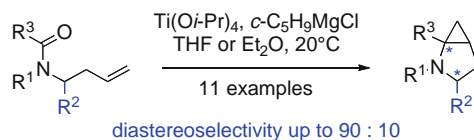
pp 5364–5366

Céline Falentin, Daniel Beaupère, Gilles Demailly, Imane Stasik*



Diastereoselective Ti-mediated preparation of bicyclic aminocyclopropanes from *N*-alkenyl amides

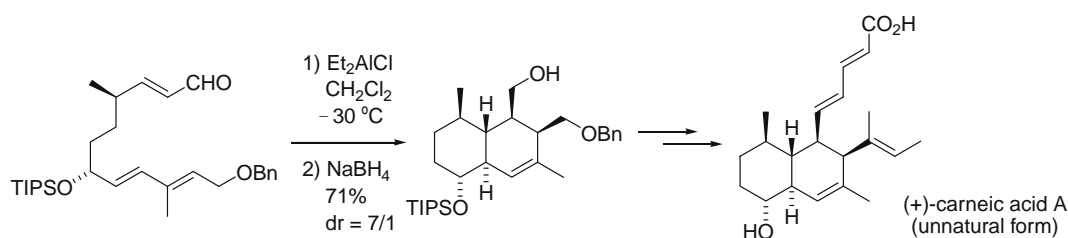
pp 5367–5371

Claire Madelaine, Andrea K. Buzas, Justyna A. Kowalska-Six, Yvan Six^{*}, Benoît Crousse

Diastereoselective intramolecular Ti-mediated alkene–amide couplings of a range of *N*-alk-3-enyl amides bearing a substituent at the homoallylic position are described. Best results are obtained in Et₂O rather than in THF.

**Asymmetric total synthesis of (+)-carneic acid A and structure revision of its natural form**

pp 5372–5375

Shuhei Yamakoshi, Nobuyuki Hayashi, Takahiro Suzuki, Masahisa Nakada^{*}**A different photo-sensitivity of isostructural crystals of *N*-(3,5-dihalosalicylidene)-2,6-dimethylaniline analogues: search for the definite reaction room in the crystal to exhibit photochromism**

pp 5376–5378

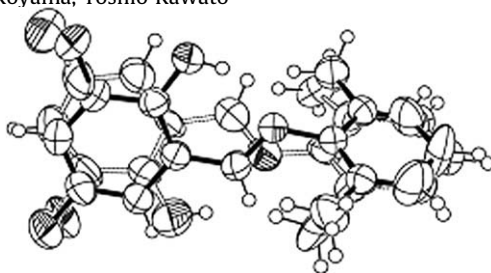
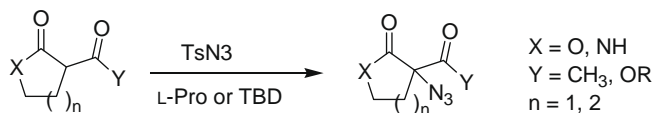
Hisatane Fukuda, Kiichi Amimoto, Hiroyuki Koyama, Toshio Kawato^{*}

Photo-sensitivity and X-ray crystal structure of three *N*-(3,5-dihalosalicylidene)-2,6-dimethylaniline analogues were determined to reveal a definite space maintained in the photochromic crystals.

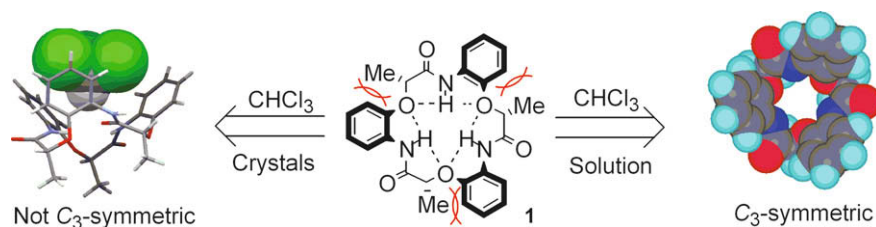
Azidation of β -carbonyl lactones and lactams

pp 5379–5381

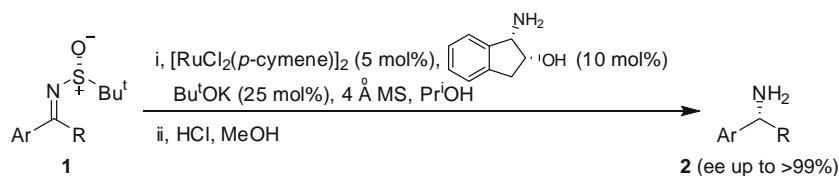
Dhurke Kashinath, Ghyslain Budin, Rachid Baati, Stéphane Meunier^{*}, Alain Wagner^{*}

A cyclic trimer of 2-(2-aminophenoxy)propionic acid with a bowl-shaped structure

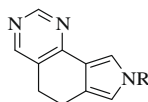
pp 5382–5385

Motohiro Akazome^{*}, Junpei Sukegawa, Yohei Goto, Shoji Matsumoto**Ruthenium-catalysed asymmetric transfer hydrogenation of *N*-(*tert*-butanesulfinyl)imines**

pp 5386–5388

David Guijarro^{*}, Óscar Pablo, Miguel Yus^{*}**Synthesis of the new ring system 6,8-dihydro-5*H*-pyrrolo[3,4-*h*]quinazoline**

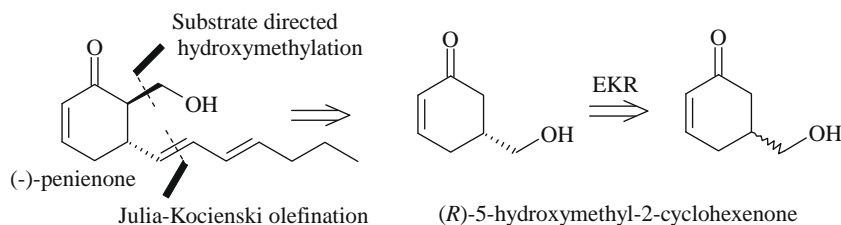
pp 5389–5391

Paola Barraja, Virginia Spanò, Patrizia Diana, Anna Carbone, Girolamo Cirrincione^{*}

A series of pyrrolo[3,4-*h*]quinazolines, were synthesized by annelation of a pyrimidine ring to an isoindole moiety. Compound **8o** showed antiproliferative activity against all the 59 tested cell lines at micromolar level.

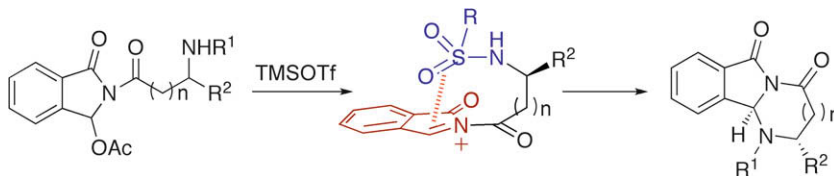
**Chemo-enzymatic asymmetric total synthesis of penienone**

pp 5392–5394

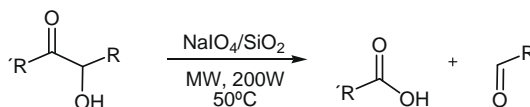
Tridib Mahapatra, Rajib Bhunya, Samik Nanda^{*}

Stereoselective synthesis of *N,N*-acetals by cyclization of an *N*-acyliminium ion through interaction with an *N*-sulfonyl group

pp 5395–5398

Shinji Yamada ^{*}, Yasuko Takahashi
Microwave-assisted, solvent-free oxidative cleavage of α -hydroxyketones

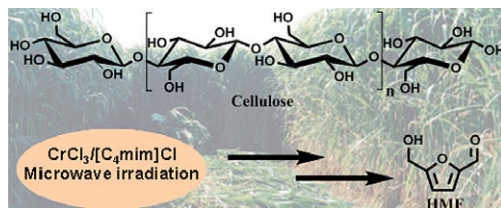
pp 5399–5402

Ignacio Carrera, Margarita C. Broveto, Juan Carlos Ramos, Gustavo A. Seoane ^{*}

The oxidative C–C cleavage of α -hydroxy ketones proceeds smoothly in solvent-free, silica-supported sodium metaperiodate, under microwave irradiation.


Direct conversion of glucose and cellulose to 5-hydroxymethylfurfural in ionic liquid under microwave irradiation

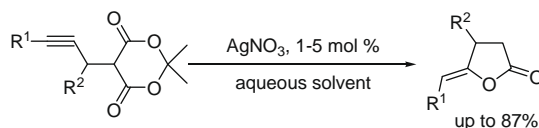
pp 5403–5405

Changzhi Li, Zehui Zhang, Zongbao K. Zhao ^{*}

Under microwave irradiation, CrCl₃-mediated conversion of glucose and cellulose in ionic liquids afforded 5-hydroxymethylfurfural in ca. 90% and 60% isolated yields, respectively.


AgNO₃ catalyzed cyclization of propargyl-Meldrum's acids in aqueous solvent: highly selective synthesis of *Z*- γ -alkylidene lactones

pp 5406–5408

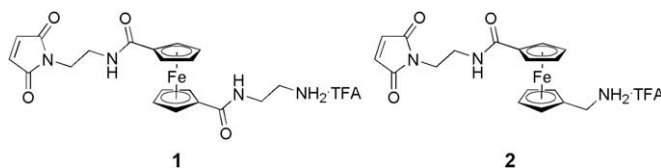
Wei Jia, Si Li, Miao Yu ^{*}, Wei Chen, Ning Jiao ^{*}

γ -Alkylidene lactones have attracted considerable attention due to their diverse biological activities and ubiquitous structural units in natural products. Herein, an efficient AgNO₃ catalyzed highly regio- and stereo-selective cyclization of propargyl-Meldrum's acids in aqueous solvent was developed, which provides a practical synthetic strategy for the synthesis of substituted *Z*- γ -alkylidene butyrolactones under neutral reaction conditions.

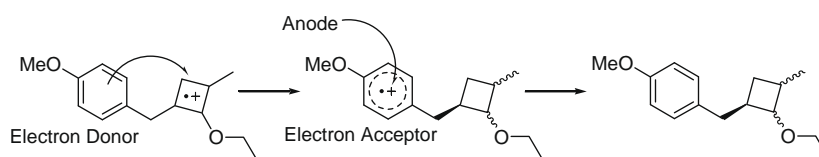


Novel redox active bifunctional crosslinkers from unsymmetrical 1,1'-disubstituted ferrocenes

pp 5409–5412

Paul A. Bertin^{*}, Thomas J. Meade^{*}**EC-backward-E electrochemistry supported by an alkoxyphenyl group**

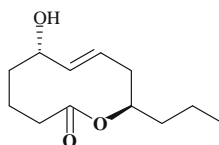
pp 5413–5416

Yohei Okada, Ryoichi Akaba, Kazuhiro Chiba^{*}

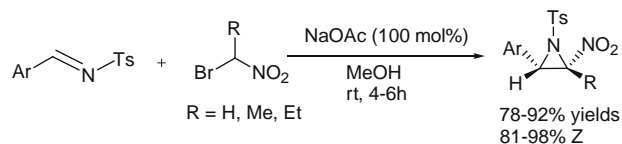
EC-backward-E electrochemistry was clearly described by using cyclic voltammetric studies.

The first total synthesis of putaminoxin and determination of its absolute configuration


pp 5417–5419

Gowravaram Sabitha^{*}, K. Yadagiri, R. Swapna, J. S. Yadav**The first diastereoselective nitroaziridination of *N*-tosylaldimines with 1-bromonitroalkanes**

pp 5420–5423

Lal Dhar S. Yadav^{*}, Garima, Ritu Kapoor

*Corresponding author

 Supplementary data available via ScienceDirect

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ISSN 0040-4039