



**Tetrahedron Vol. 69, Issue 21, 2013**

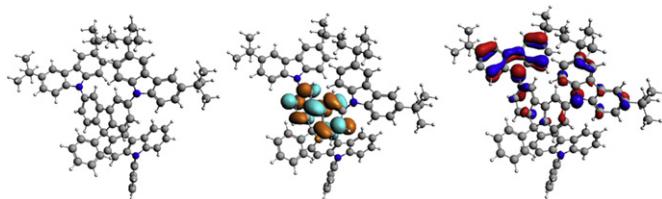
## Contents

### ARTICLES

**High thermal stability 3, 6-fluorene-carbazole-dendrimers as host materials for efficient solution-processed blue phosphorescent devices**

pp 4169–4175

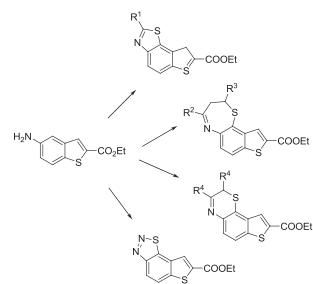
Yinbo Qian\*, Feng Cao, Wenping Guo



**An efficient synthetic route towards novel thienobenzothiazoles, thienobenzothiazepines, and thienobenzothiazines**

pp 4176–4184

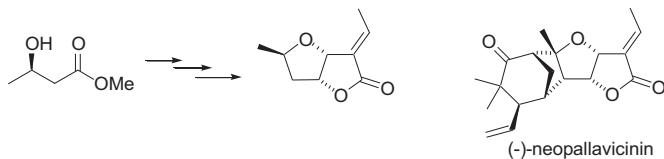
Wim Van Snick, Yelaman K. Aibuldinov, Wim Dehaen\*



**Synthesis of bis-tetrahydrofuran subunit of (−)-neopallavicinin**

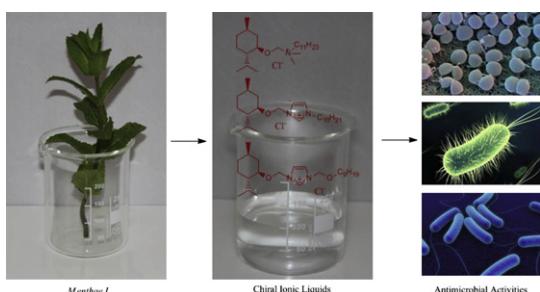
Martin Markovič, Marianna Ďúranová, Peter Koóš, Peter Szolcsányi, Tibor Gracza\*

pp 4185–4189

**The effect of the cationic structures of chiral ionic liquids on their antimicrobial activities**

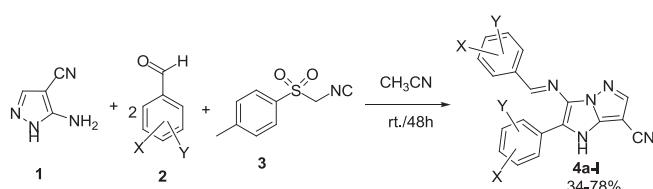
Joanna Feder-Kubis\*, Krzysztof Tomczuk

pp 4190–4198

**Synthesis of 3-(benzylideneamino)-2-phenyl-5*H*-imidazo[1,2-*b*]pyrazole-7-carbonitriles via a four-component condensation reaction**

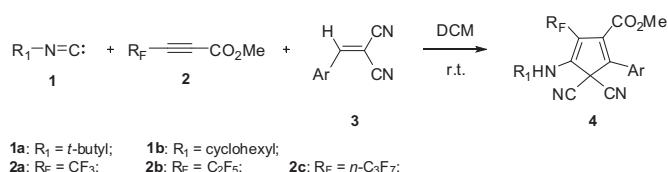
Abbas Rahmati\*, Miranda Eskandari-Vashareh, Meysam Alizadeh-Kouzehrash

pp 4199–4204

**An efficient one-pot three-component process for the synthesis of highly substituted perfluoroalkylated cyclopentadienes**

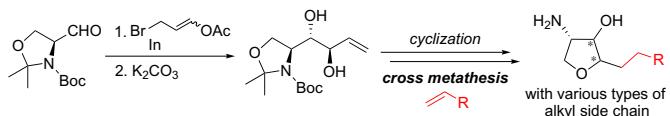
You Lv, Xufeng Yan, Lijun Yan, Zewei Wang, Jie Chen, Hongmei Deng, Min Shao, Hui Zhang\*, Weiguo Cao\*

pp 4205–4210



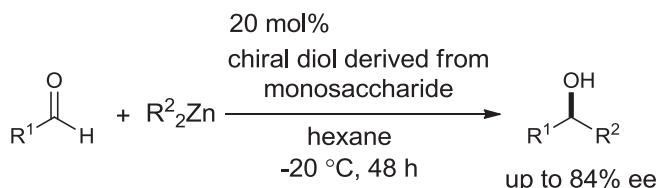
**Synthesis of pachastrissamine (jaspine B) and its derivatives by the late-stage introduction of the C-2 alkyl side-chains using olefin cross metathesis** pp 4211–4220

Yuji Yoshimitsu, Jun Miyagaki, Shinya Oishi, Nobutaka Fujii\*, Hiroaki Ohno\*



**Enantioselective alkylation of aldehydes using dialkylzincs catalyzed by simple chiral diols derived from naturally occurring monosaccharides** pp 4221–4225

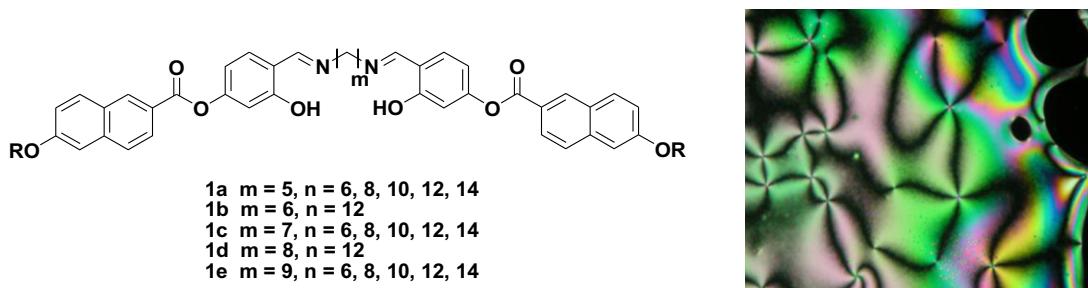
Kyosuke Michigami, Masahiko Hayashi\*



**Symmetric mesogenic twins derived from salicylaldimines**

Hsiu-Ming Kuo, Chu-Hsuan Li, Hwo-Shuenn Sheu, Chung K. Lai\*

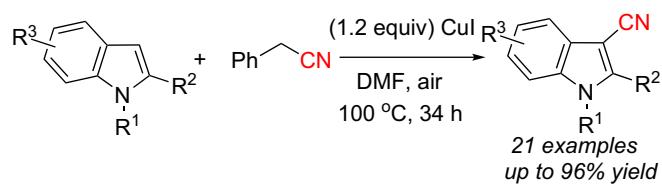
pp 4226–4235



**Cyanation of indoles with benzyl cyanide as the cyanide anion surrogate**

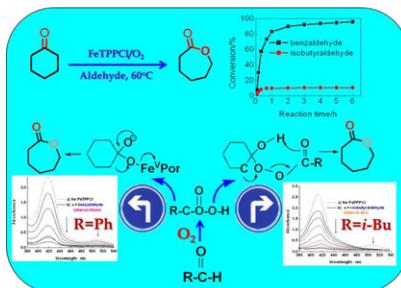
Lianpeng Zhang, Qiaodong Wen, Jisong Jin, Chen Wang, Ping Lu\*, Yangguang Wang\*

pp 4236–4240



**Remarkable differences between benzaldehyde and isobutyraldehyde as coreductant in the performance toward the iron(III) porphyrins-catalyzed aerobic Baeyer–Villiger oxidation of cyclohexanone, kinetic and mechanistic features**  
Hong-Yun Lan, Xian-Tai Zhou, Hong-Bing Ji\*

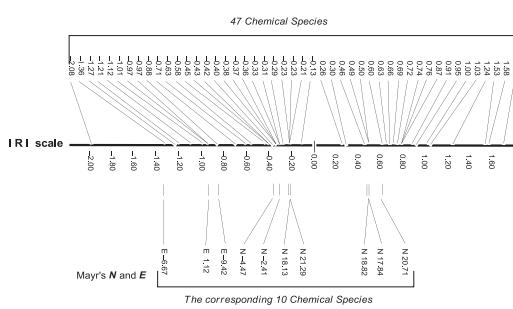
pp 4241–4246



**Intrinsic reactivity index as a single scale directed toward both electrophilicity and nucleophilicity using frontier molecular orbitals**

pp 4247–4258

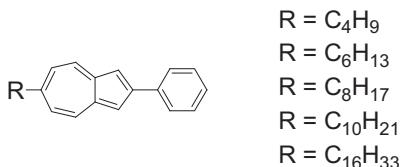
Syun-ichi Kiyooka\*, Daisuke Kaneno, Ryoji Fujiyama



**Efficient synthesis and redox behavior of a series of 6-alkyl-2-phenylazulenes**

pp 4259–4269

Shunji Ito\*, Mao Ueda, Ryuta Sekiguchi, Jun Kawakami



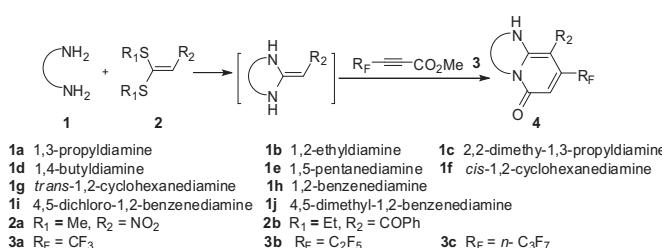
Amphoteric redox behavior of 6-alkyl-2-phenylazulenes with a significant color change under electrochemical conditions was revealed by voltammetric and electrochromic analyses.



**Convenient synthesis of perfluoroalkyl substituted 2-oxopyridine-fused 1,3-diazaheterocycles via a one-pot three-component reaction**

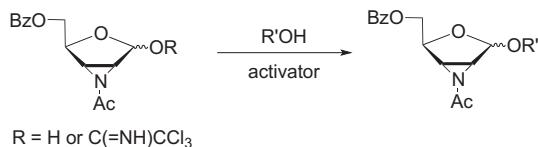
pp 4270–4275

Zewei Wang, Tianqi Sun, Jie Chen, Hongmei Deng, Min Shao, Hui Zhang\*, Weigu Cao\*



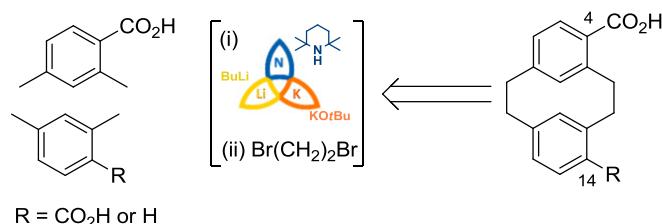
**Glycosylations with 2,3-aziridinofuranose derivatives**  
Md Faiaz Ahmed, Todd L. Lowary\*

pp 4276–4284



**Synthesis, separation, and structural analysis of planar chiral carboxy-substituted [2.2]metacyclophanes**  
Marco Blangetti, Helge Müller-Bunz, Donal F. O'Shea\*

pp 4285–4291



**Rh(II)-carbenoid mediated 2*H*-azirine ring-expansion as a convenient route to non-fused photo- and thermochromic 2*H*-1,4-oxazines**

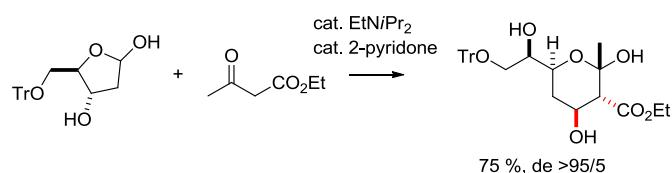
pp 4292–4301

Nikolai V. Rostovskii, Mikhail S. Novikov\*, Alexander F. Khlebnikov, Vsevolod A. Khlebnikov, Sergei M. Korneev



**Organocatalyzed Knoevenagel-addition—simple access to carbon chain-elongated branched carbohydrates**  
Benjamin Voigt, Anastassia Matviitsuk, Rainer Mahrwald\*

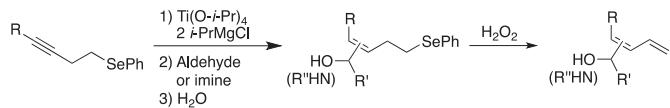
pp 4302–4310



**Synthetic transformation of homopropargylic selenides to conjugated diene-substituted alcohols and amines using diisopropoxy( $\eta^2$ -alkyne)titanium intermediates**

pp 4311–4324

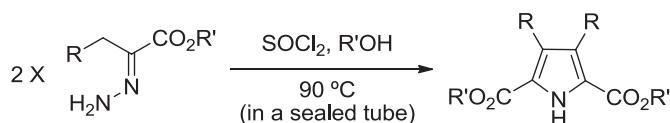
Kazuki Shintaku, Yoko Nishino, Hajime Maeda, Masahito Segi\*



**A novel method for the synthesis of 3,4-disubstitutedpyrrole-2,5-dicarboxylates from hydrazones derived from  $\alpha$ -diazo esters**

pp 4325–4330

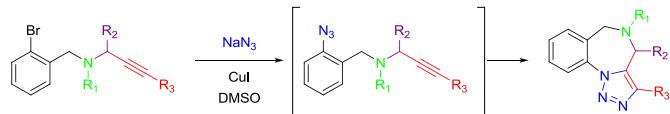
Eiko Yasui\*, Masao Wada, Shinji Nagumo, Norio Takamura\*



**Synthesis of [1,2,3]-triazolo[1,5-*a*][1,4]benzodiazepines via an unprecedented one-pot Cu-catalyzed azidation–cyclization reaction**

pp 4331–4337

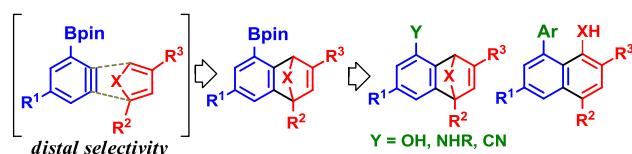
Geert Hooyberghs, Hendrik De Coster, Dipak D. Vachhani, Denis S. Ermolat'ev\*, Erik V. Van der Eycken\*



**Generation of 3-borylbenzenes, their regioselective Diels–Alder reactions, and theoretical analysis**

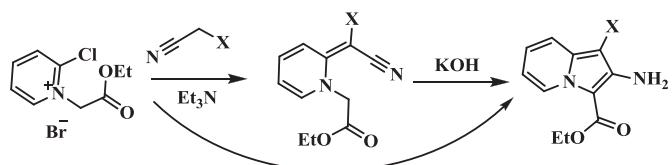
pp 4338–4352

Akira Takagi, Takashi Ikawa, Yurio Kurita, Kozumo Saito, Kenji Azechi, Masahiro Egi, Yuji Itoh, Hiroaki Tokiwa, Yasuyuki Kita, Shuji Akai\*



**Simple stepwise route to 1-substituted 2-amino-3-ethoxycarbonylindolizines**

Gennadiy E. Khoroshilov\*, Natalia M. Tverdokhleb, Vladimir S. Brovarets, Eugene V. Babaev

**pp 4353–4357**

\*Corresponding author

(i)<sup>+</sup> Supplementary data available via SciVerse ScienceDirect**COVER**

A novel three step approach leading to [1,2,3]-triazolo[1,5-a][1,4]benzodiazepines in moderate to good yields has been developed. The key step is an unprecedented one-pot Cu-catalyzed azidation-cyclization reaction of ortho-bromobenzylpropargylamines. © 2013 G. Hooyberghs, H. De Coster, D. D. Vachhani, D. S. Ermolat'ev, E. V. Van der Eycken.

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)**SciVerse ScienceDirect**

Full text of this journal is available, on-line from **SciVerse ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SciVerse SCOPUS®. Full text available on SciVerse ScienceDirect®



ISSN 0040-4020