



Tetrahedron Vol. 65, No. 17, 2009

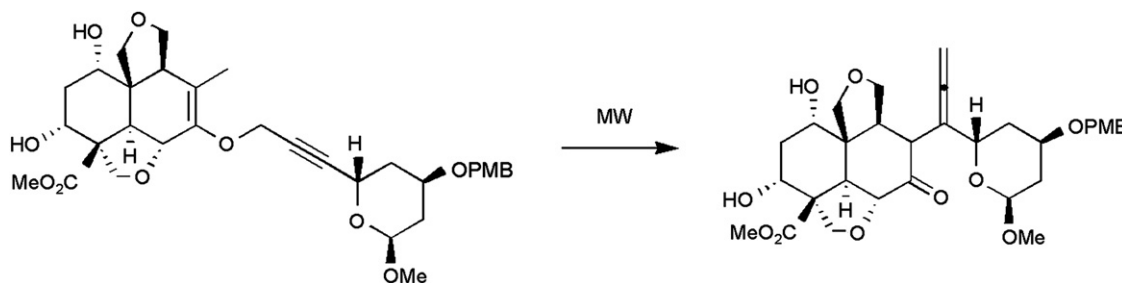
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Microwave enhanced synthesis

Stephen Caddick*, Richard Fitzmaurice

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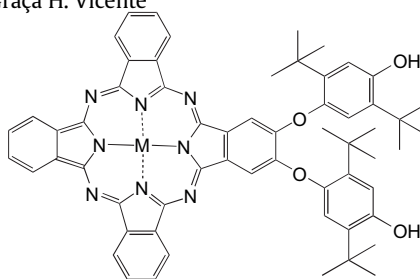


ARTICLES

Syntheses and properties of octa-, tetra-, and di-hydroxy-substituted phthalocyanines

Hairong Li, Ngan Nguyen, Frank R. Fronczek, M. Graça H. Vicente*

pp 3357–3363

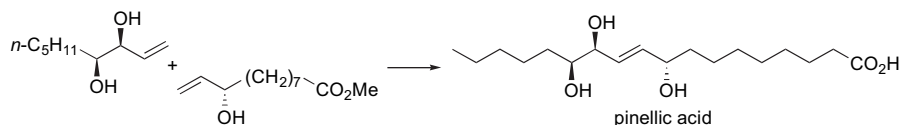


The synthesis and photophysical properties of an octa-, a tetra-, and a di-hydroxyphthalocyanines are reported and compared. The X-ray structures of two phthalonitriles and a targeted phthalocyanine are presented and discussed. These phthalocyanines show high singlet oxygen quantum yields (0.2–0.7) and might find application in photodynamic therapy of cancers.

A concise synthesis of pinellic acid using a cross-metathesis approach

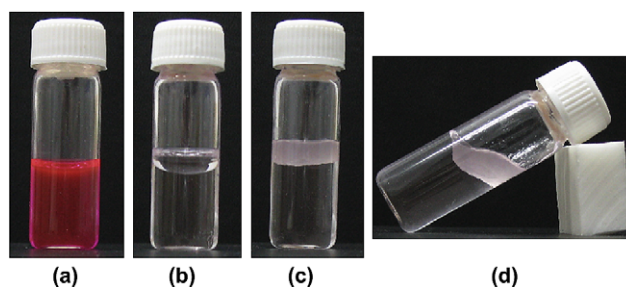
pp 3364–3368

Ayako Miura, Shigefumi Kuwahara*

**Cholesteryl derivatives as phase-selective gelators at room temperature**

pp 3369–3377

Min Xue, Di Gao, Kaiqiang Liu, Junxia Peng, Yu Fang*

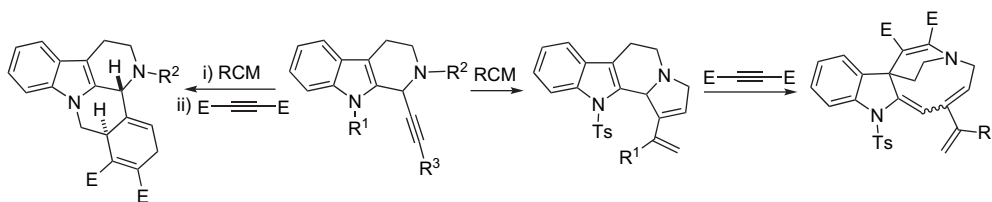


Two novel cholesterol-based gelators show efficient and phase-selective gelation property at room temperature.

Novel chemistry of β -carbolines. Expedient synthesis of polycyclic scaffolds

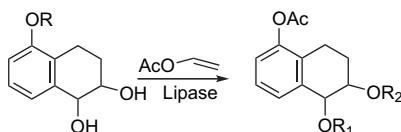
pp 3378–3391

Álvaro González-Gómez, Gema Domínguez, Javier Pérez-Castells*

**Lipase-catalyzed resolution of 5-acetoxy-1,2-dihydroxy-1,2,3,4-tetrahydronaphthalene. Application to the synthesis of (+)-(3*R*,4*S*)-*cis*-4-hydroxy-6-deoxyscytalone, a metabolite isolated from *Colletotrichum acutatum***

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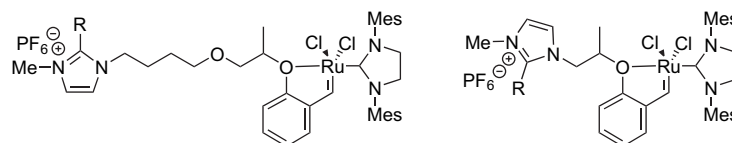
Daniel Jiménez-Teja, Mourad Daoubi, Isidro G. Collado, Rosario Hernández-Galán*



Novel imidazolium ion-tagged Ru-carbene complexes: synthesis and applications for olefin metathesis in ionic liquid

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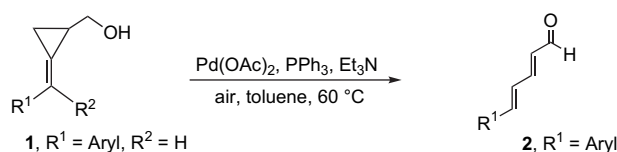
Shu-Wei Chen, Ju Hyun Kim, Ka Yeon Ryu, Won-Woong Lee, Jongki Hong, Sang-gi Lee*



Palladium(II) and palladium(0)-cocatalyzed ring opening and oxidation reactions of 2-(arylmethylene)-cyclopropylcarbinols

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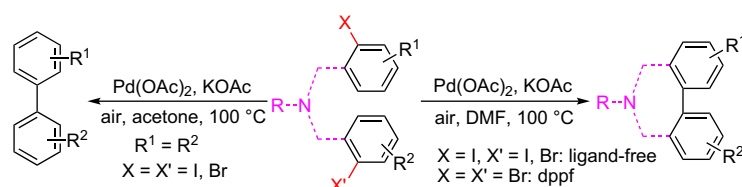
Min Shi*, Guo-Qiang Tian, Jia Li



Synthesis of 6,7-dihydro-5H-dibenzo[c,e]azepines and biaryls by palladium-catalyzed Ullmann reaction

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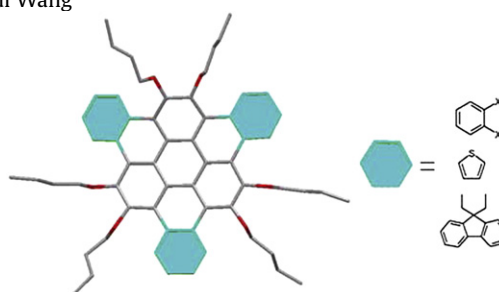
Ming Yu, Ri-Yuan Tang, Jin-Heng Li*



Triangle-shaped polycyclic aromatics based on tribenzocoronene: facile synthesis and physical properties

pp 3417–3424

Zhongtao Li, Linjie Zhi, Nigel T. Lucas, Zhaohui Wang*



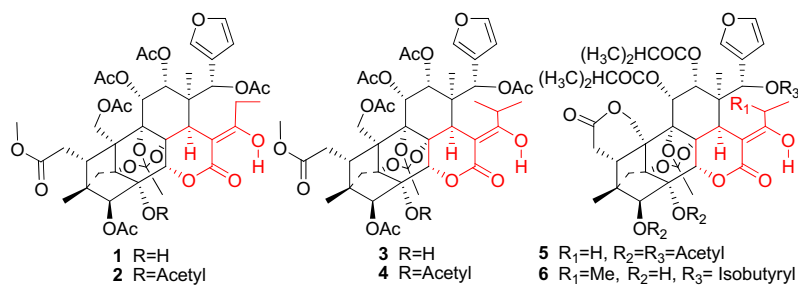
A series of triangle-shaped polycyclic aromatics have been developed. Their molecular conformation and packing arrangement are significantly dependent upon the electronic properties and steric bulk of peripheral subunits.



Chukvelutilides A–F, phragmalin limonoids from the stem barks of *Chukrasia tabularis* var. *velutina*

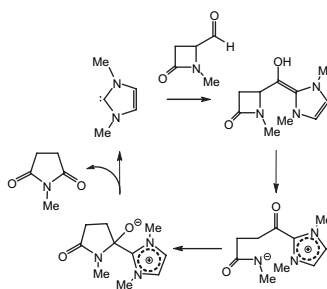
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Jun Luo, Jun-Song Wang, Xiao-Bing Wang, Xue-Feng Huang, Jian-Guang Luo, Ling-Yi Kong*

**Understanding the mechanism of the *N*-heterocyclic carbene-catalyzed ring-expansion of 4-formyl- β -lactams to succinimide derivatives**

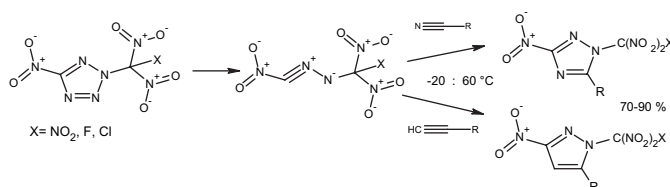
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Luis R. Domingo*, M. José Aurell, Manuel Arnó

**Thermal ring-opening reaction of *N*-polynitromethyl tetrazoles: facile generation of nitrilimines and their reactivity**

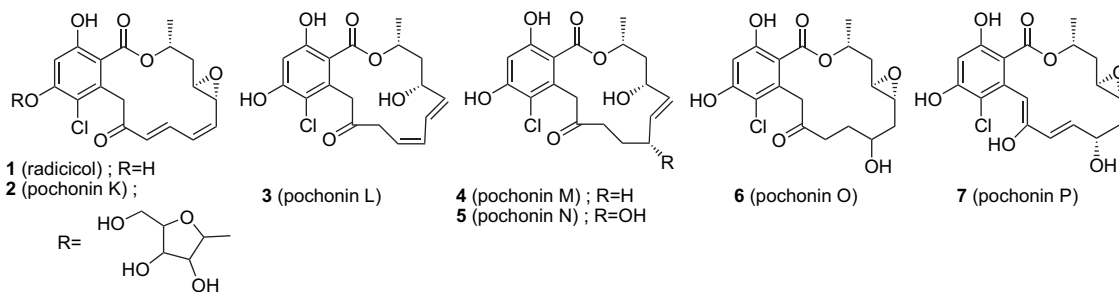
pp 3441–3445

V.V. Semenov*, M.I. Kanishev, S.A. Shevelev, A.S. Kiselyov

**Pochonins K–P: new radicicol analogues from *Pochonia chlamydosporia* var. *chlamydosporia* and their WNT-5A expression inhibitory activities**

pp 3446–3453

Hideki Shinonaga*, Yoji Kawamura, Akiko Ikeda, Mari Aoki, Noriyoshi Sakai, Natsuko Fujimoto, Akira Kawashima



pp 3454–3458

The reaction scheme shows the conversion of a bicyclic amide (left) into a mixture of two diastereomeric thioethers (right). The starting material is a bicyclic amide with a piperidine ring fused to a six-membered ring containing a carbonyl group. The reaction proceeds via an intermediate (middle) where the carbonyl oxygen is replaced by a phenylthio group (S-Ph). The final products are two diastereomers of the thioether, separated by a plus sign, indicating a mixture of stereoisomers.

pp 3459–3464

8830: DNGKAIYERARERALQELGP



pp 3465–3472

Chemical reaction scheme showing the synthesis of indole alkaloids 1 and 2. The scheme starts with a common indole-3-carboxamide derivative (R¹, R², CH₃, R³) reacting with a cyclic amide (R³, m). For m=0,1, the product is a 1,2,3,4-tetrahydroindole derivative (1). For m=2,3,4, the product is a 1,2,3,4,5,6-hexahydroindole derivative (2). The reaction is catalyzed by Pd(PPh₃)₄ and CuI in CH₂Cl₂ at 100 °C for 24 hours.

pp 3473–3479

$$\text{R}_1\text{-CH(OH)-C(=O)-CH=CH-CH}_2\text{ (cyclic)} + \text{H}_2\text{N-C}_6\text{H}_4\text{-R}_2 \xrightarrow[\text{THF/4A MS, reflux}]{\text{In(OTf)}_3 \text{ (10 mol\%)}} \text{R}_1\text{-CH(NH-C}_6\text{H}_4\text{-R}_2\text{)-C(=O)-CH=CH-CH}_2\text{ (cyclic)} + \text{R}_1\text{-CH=CH-C(=O)-CH}_2\text{-NH-C}_6\text{H}_4\text{-R}_2$$

 $n=1 \text{ or } 2$

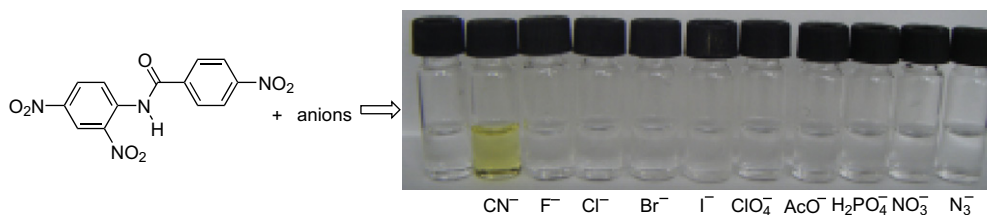
 $\alpha\text{-product}$

 $\gamma\text{-product}$

Colorimetric detection of cyanide with *N*-nitrophenyl benzamide derivatives

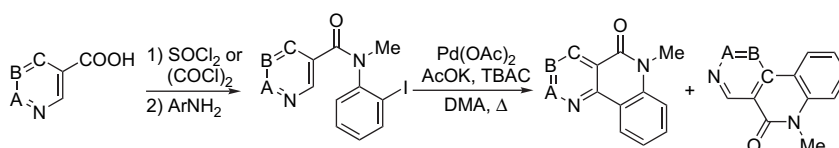
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Yue Sun, Guofeng Wang, Wei Guo*

**Efficient palladium-catalyzed direct arylation of azines and diazines using ligand-free conditions**

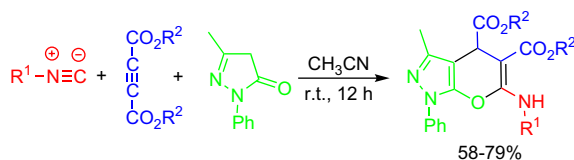
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Luca Basolo, Egle M. Beccalli*, Elena Borsini, Gianluigi Brogini

**Synthesis of fully substituted pyrano[2,3-*c*]pyrazole derivatives via a multicomponent reaction of isocyanides**

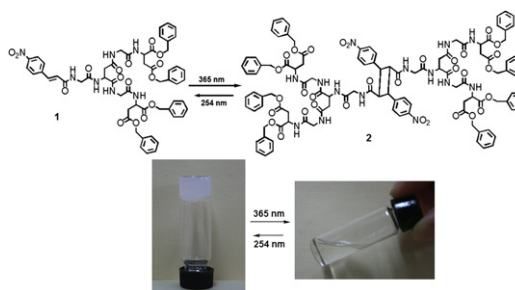
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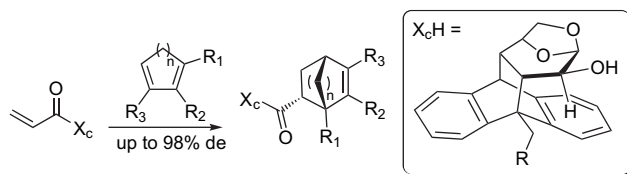
Gui-Chao Kuang, Yan Ji, Xin-Ru Jia*, Yan Li, Er-Qiang Chen, Zheng-Xiang Zhang, Yen Wei*



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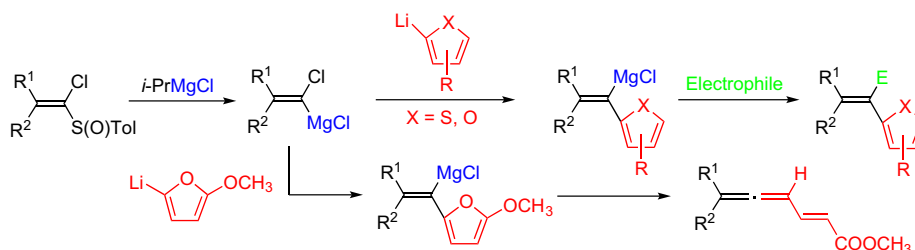
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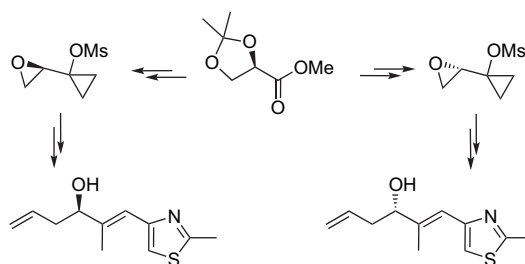
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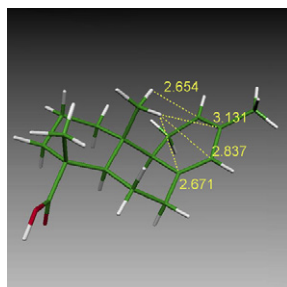
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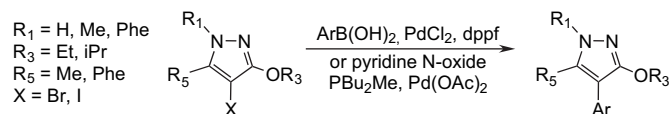
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4-Arylation of 3-alkoxypprazoles

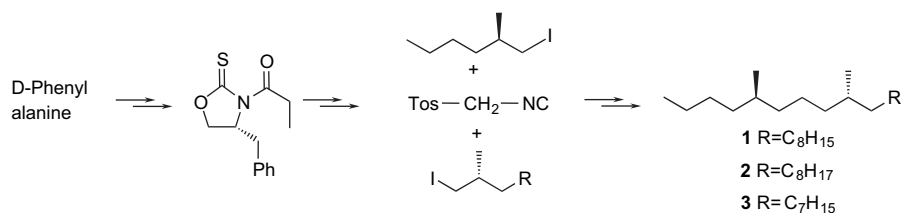
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**Stereoselective synthesis of 10,14-dimethyloctadec-1-ene, 5,9-dimethyloctadecane, and 5,9-dimethylheptadecane, the sex pheromones of female apple leafminer**

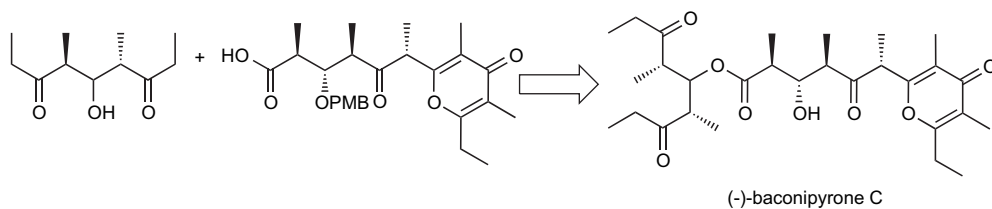
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Jhillu S. Yadav*, Kamakolanu Uma Gayathri, Neetipalli Thrimurtulu, Attaluri R. Prasad

**Total synthesis of (–)-baconipyron C**

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J.S. Yadav*, K. Sathaiah, R. Srinivas



*Corresponding author

 Supplementary data available via ScienceDirect



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

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