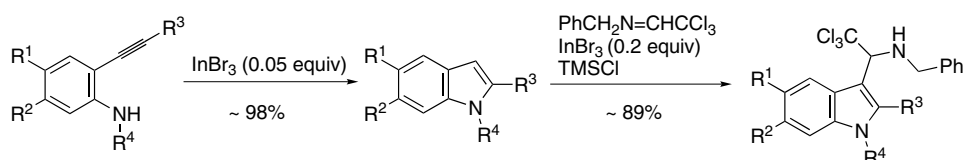


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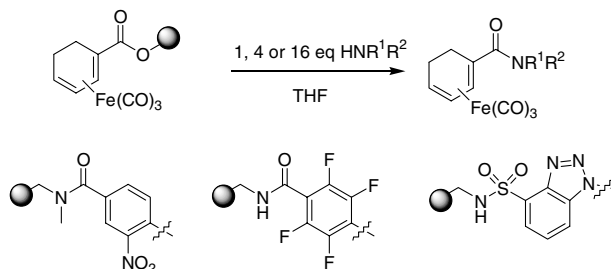
**InBr<sub>3</sub>-catalyzed intramolecular cyclization of 2-alkynylanilines leading to polysubstituted indole and its application to one-pot synthesis of an amino acid precursor** pp 631–634

Norio Sakai,\* Kimiyoshi Annaka and Takeo Konakahara\*



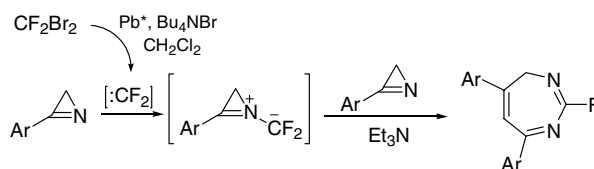
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Jonas Eriksson, Thomas Olsson, Nina Kann and Henrik Gradén\*



**Fluorinated 4H-1,3-diazepines by reaction of difluorocarbene with 2H-azirines** pp 639–642

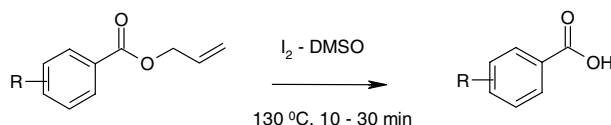
Mikhail S. Novikov,\* Amer A. Amer and Alexander F. Khlebnikov



**Dimethylsulfoxide–iodine catalysed deprotection of allyl carboxylic esters**

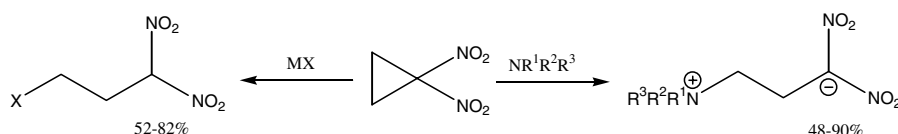
pp 643–646

Kiran N. Taksande, Sachin S. Sakate and Pradeep D. Lokhande\*

**Ring opening of 1,1-dinitrocyclopropane by addition of C, N, O and S nucleophiles**

pp 647–649

Ekaterina M. Budykina, Olga A. Ivanova, Elena B. Averina, Tamara S. Kuznetsova\* and Nikolai S. Zefirov

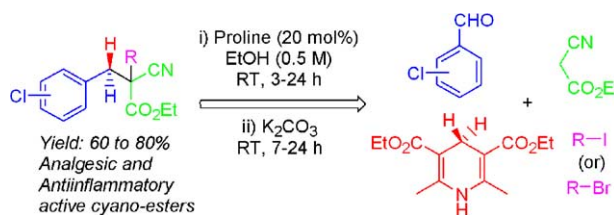


Nucleophilic ring opening of 1,1-dinitrocyclopropane was studied with diverse C, N, O and S nucleophiles. A series of 3-X-substituted-1,1-dinitropropanes were obtained. Weak nucleophilic tertiary amines were also active in this reaction and afforded zwitterionic compounds.

**A novel and green protocol for two-carbon homologation: a direct amino acid/ $K_2CO_3$ -catalyzed four-component reaction of aldehydes, active methylenes, Hantzsch esters and alkyl halides**

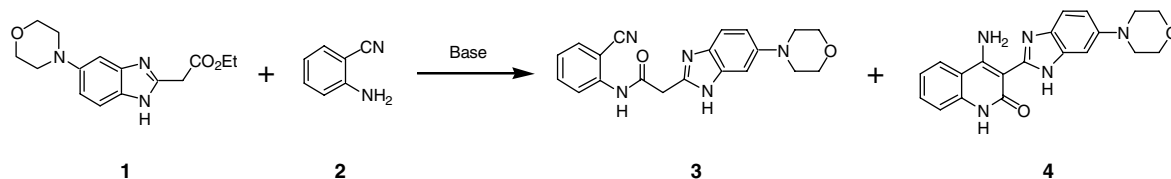
pp 651–656

Dhevalapally B. Ramachary,\* M. Kishor and K. Ramakumar

**LHMDS mediated tandem acylation–cyclization of 2-aminobenzonitriles with 2-benzimidazol-2-yl acetates: a short and efficient route to the synthesis of 4-amino-3-benzimidazol-2-ylhydroquinolin-2-ones**

pp 657–660

William R. Antonios-McCrea, Kelly A. Frazier, Elisa M. Jazan, Timothy D. Machajewski, Christopher M. McBride, Sabina Pecchi,\* Paul A. Renhowe, Cynthia M. Shafer and Clarke Taylor



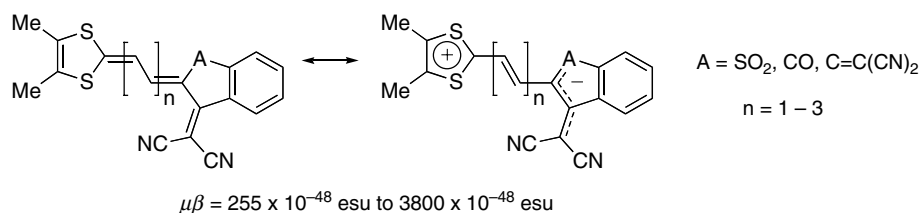
We herein describe the discovery of a mild, one-pot, tandem acylation–cyclization for the synthesis of 4-amino-3-benzimidazol-2-ylhydroquinolin-2-ones from 2-aminobenzonitriles and ethyl 2-benzimidazol-2-yl acetates.



**Highly polarized dithiafulvenes: synthesis and nonlinear optical properties**

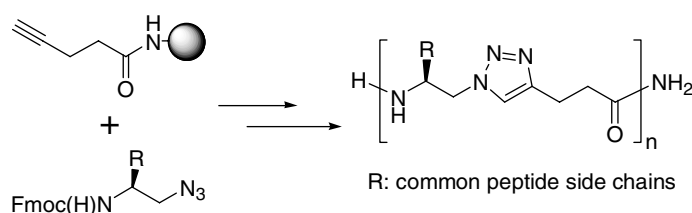
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Raquel Andreu, Jorge Aramburo, Miguel Angel Cerdán, Javier Garín,\* Jesús Orduna and Belén Villacampa

**Solid phase synthesis of peptidotriazoles with multiple cycles of triazole formation**

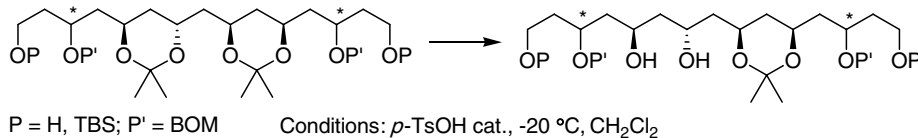
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Zhongsheng Zhang and Erkang Fan\*

**Selective hydrolysis of *anti*-1,3-diol-acetonides for the differentiation of 1,3-*anti* and 1,3-*syn* diols**

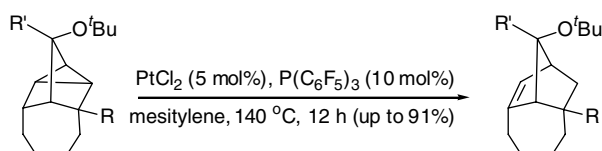
pp 671–674

Gérald Coste and Sandrine Gerber-Lemaire\*

**PtCl<sub>2</sub>-Promoted cyclopropane opening in [4+2+2] homo Diels–Alder cycloadducts**

pp 675–678

Alexandra E. Hours and John K. Snyder\*

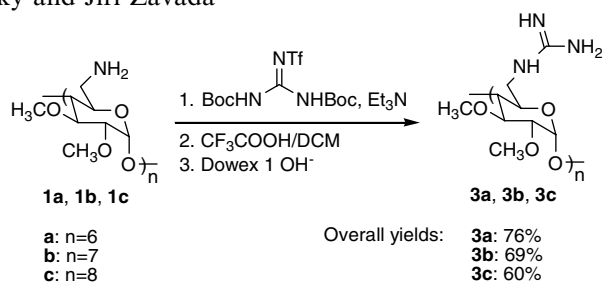


A new and readily available catalytic system has been developed to open the cyclopropane ring in [4+2+2] homo Diels–Alder cycloadducts formed by reaction of norbornadienes and 1,3-butadiene.

### Synthesis of per-6-guanidinylated cyclodextrins

Tomáš Kraus,\* Miloš Buděšínský and Jiří Závada

pp 679–681



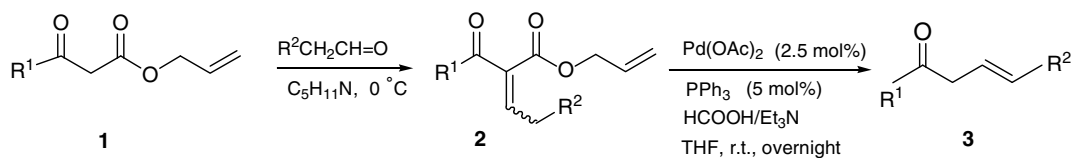
A simple method for per-guanidinylation of  $\alpha$ -,  $\beta$ - and  $\gamma$ -cyclodextrins is reported.



### Palladium catalyzed reductive decarboxylation of allyl $\alpha$ -alkenyl- $\beta$ -ketoesters. A new synthesis of (*E*)-3-alkenones

Valentine Ragoussis\* and Alexandros Giannikopoulos

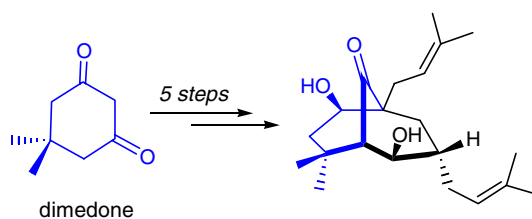
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### A rapid acquisition of the bicyclo[3.3.1]nonan-9-one core present in garsubellin A and related phloroglucins

Goverdhan Mehta\* and Mrinal K. Bera

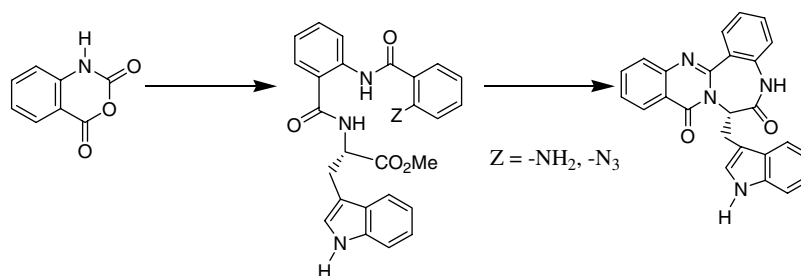
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### Total synthesis of asperlicin D

Naim H. Al-Said\* and Lina S. Al-Qaisi

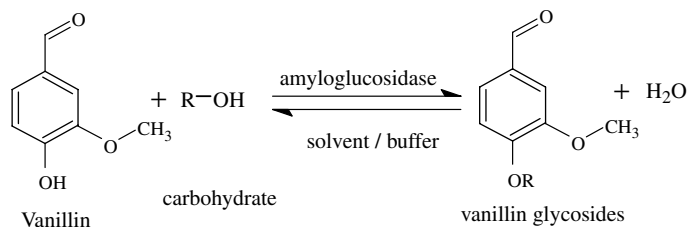
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**Glycosylation of vanillin by amyloglucosidase in organic media**

pp 695–699

Ramaiah Sivakumar and Soundar Divakar\*

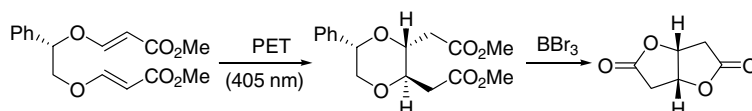


Glycosylation of vanillin using amyloglucosidase with D-glucose, D-galactose, D-mannose, maltose, sucrose and D-sorbitol in di-isopropyl ether yielded the respective C1 and/or C6 glycosides.

**Chiral 6-phenyl-2,3-bismethylenemethoxycarbonyl-[1,4]-dioxane as a designer synthon for an efficient and short synthesis of optically pure 2,6-dioxabicyclo[3.3.0]octane-3,7-dione**

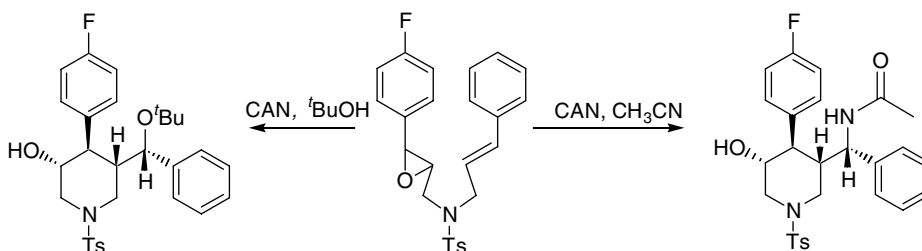
pp 701–703

Ganesh Pandey,\* Amrut L. Gaikwad and Smita R. Gadre

**CAN-mediated stereoselective cyclization of epoxypropyl cinnamyl amines to 3,4,5-trisubstituted piperidines and supramolecular assembly of the latter aided by ethyl acetate**

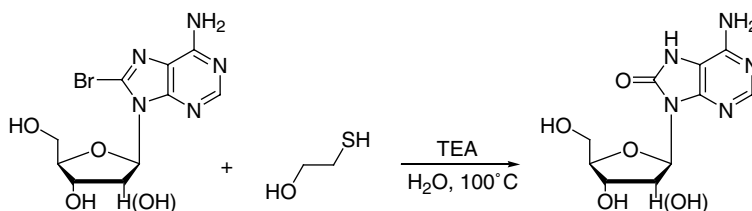
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Vijay Nair,\* Kishor Mohanan, T. D. Suja and Eringathodi Suresh

**A facile one-pot synthesis of 8-oxo-7,8-dihydro-(2'-deoxy)adenosine in water**

pp 711–714

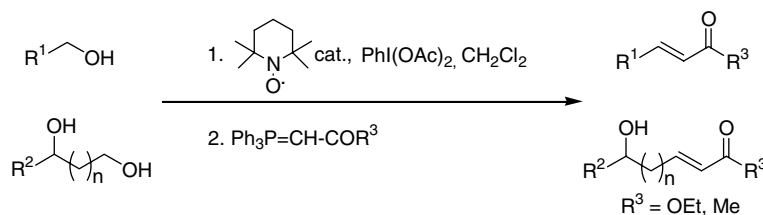
Chryssostomos Chatgililoglu, Maria Luisa Navacchia\* and Al Postigo



**One-pot selective oxidation/olefination of primary alcohols using TEMPO–BAIB system and stabilized phosphorus ylides**

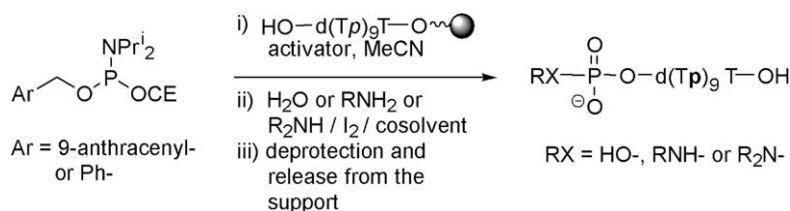
pp 715–718

Jean-Michel Vatele


**Solid-phase synthesis of terminal oligonucleotide–phosphoramidate conjugates**

pp 719–722

Leonie A. Cooke, Christian Frauendorf, Manuela A. Gílea, Stephen C. Holmes and Joseph S. Vyle\*

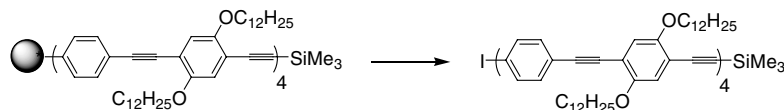


A novel phosphoramidite has been utilised for the solid-phase synthesis of 5'-phosphate monoesters and 5'-phosphoramidate-linked lipophilic, fluorescent and cationic moieties.


**Column chromatographic purification free synthesis of long-chain monodisperse oligo(1,4-phenyleneethynylene)s: towards large-scale automatic synthesis of molecular wires**

pp 723–725

Guorong Li, Xianhong Wang\* and Fosong Wang

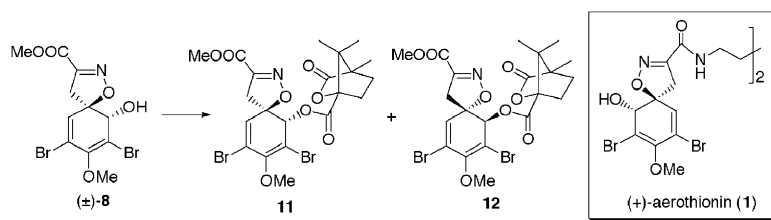


A facile, mild and rapid solid phase synthetic route free of column chromatographic purification to the synthesis of soluble long-chain monodisperse oligo(1,4-phenyleneethynylene)s was presented.

**Asymmetric synthesis of aerothionin, a marine dimeric spiroisoxazoline natural product, employing optically active spiroisoxazoline derivative**

pp 727–731

Takahisa Ogamino, Rika Obata and Shigeru Nishiyama\*

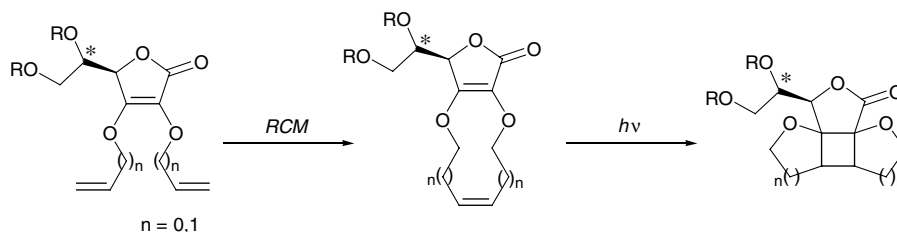


Successful first synthesis of optically pure (+)- and (–)-aerothionins (**1**) from the racemic spiroisoxazoline derivative **8** has been accomplished. The absolute configuration of natural (+)-**1** was determined by comparison of (+)- and (–)-**8** with related derivatives.

**Diastereoselective transannular [2+2] photocycloaddition of ascorbic acid derivatives**

pp 733–736

Sébastien Redon and Olivier Piva\*

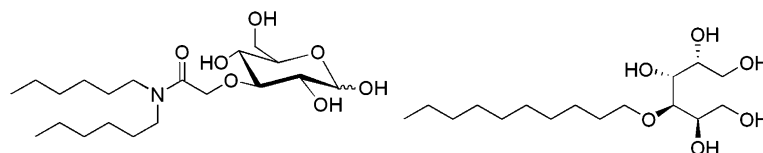


Ring-closing metathesis of bis-*O,O*-alkenyl ascorbic acid derivatives affords cyclic ethers in good yields which can be further converted into polyoxacyclic structures according to a diastereoselective transannular [2+2] photocycloaddition.

**Synthesis and lyotropic phase behavior of novel nonionic surfactants for the crystallization of integral membrane proteins**

pp 737–741

Jeffrey Walton, Gordon J. T. Tiddy and Simon J. Webb\*

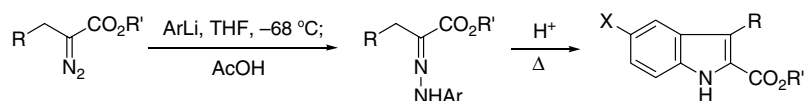


New types of surfactants have been synthesized with lyotropic liquid crystalline properties that are promising for the crystallization of integral membrane proteins.

**Novel approach to arylhydrazones, the precursor for Fischer indole synthesis, via diazo esters derived from  $\alpha$ -amino acid esters**

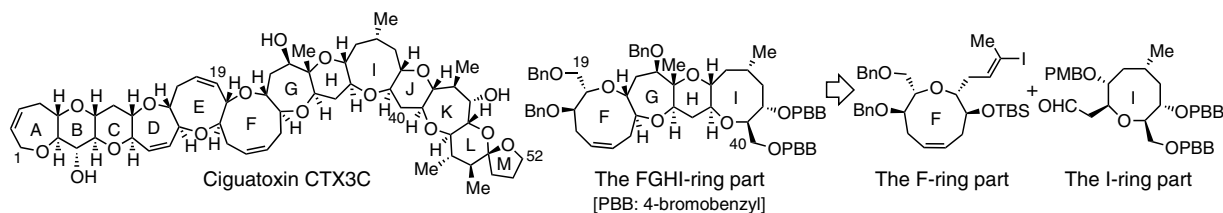
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Eiko Yasui, Masao Wada and Norio Takamura\*

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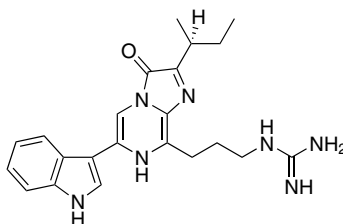
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Ayumi Takizawa, Kenshu Fujiwara,\* Eriko Doi, Akio Murai, Hidetoshi Kawai and Takanori Suzuki



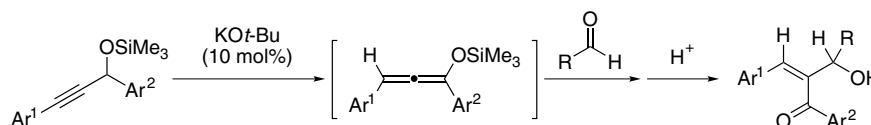
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 Chun Wu, Kosei Kawasaki, Satoru Ohgiya and Yoshihiro Ohmiya\*

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 Kazuhiro Yoshizawa\* and Takayuki Shioiri

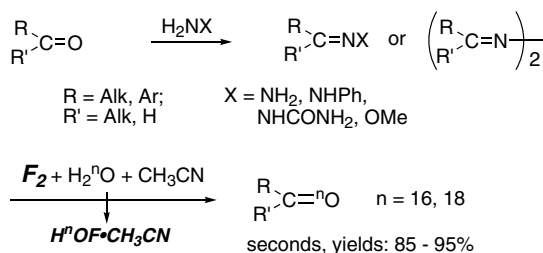
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**A new efficient deprotection of azines, hydrazones and oximes. An excellent route for exchanging oxygen isotopes in carbonyls**

pp 763–766

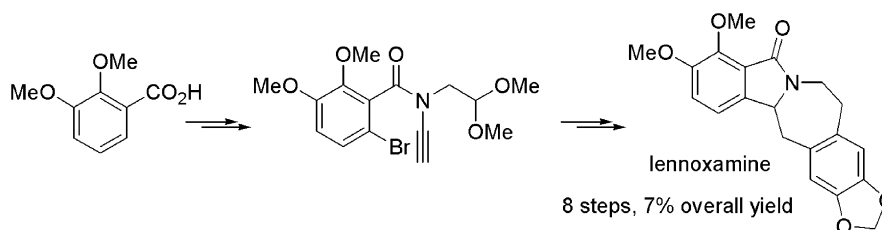
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Sylvain Couty, Christophe Meyer and Janine Cossy\*

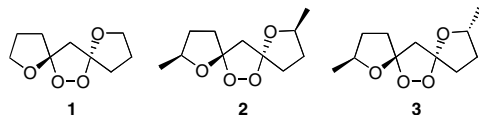




**Synthesis of *trans*-1,8,12,13-tetraoxadispiro[4.1.4.2]tridecanes—a new class of peroxides**

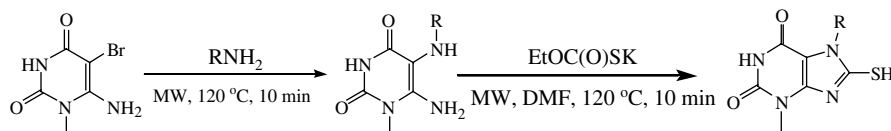
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D. Naveen Kumar, N. Sudhakar, B. Venkateswara Rao,\* K. Hara Kishore and U. Suryanarayana Murty

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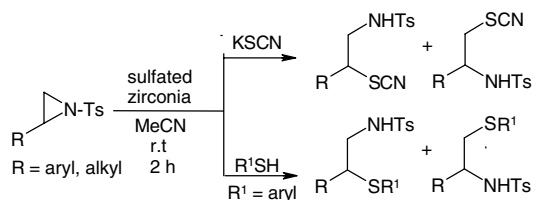
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Lei Zhang and Y. John Zhang\*

**Regioselective ring-opening of aziridines with potassium thiocyanate and thiols using sulfated zirconia as a heterogeneous recyclable catalyst**

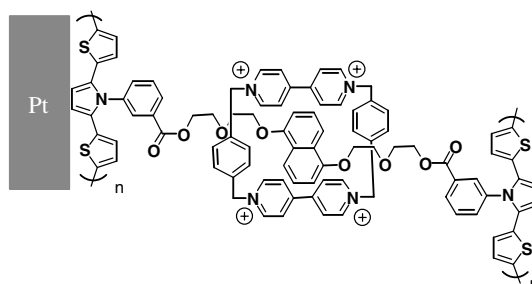
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Biswanath Das,\* R. Ramu, B. Ravikanth and K. Ravinder Reddy

**The electrochemical polymerisation of a [2]rotaxane**

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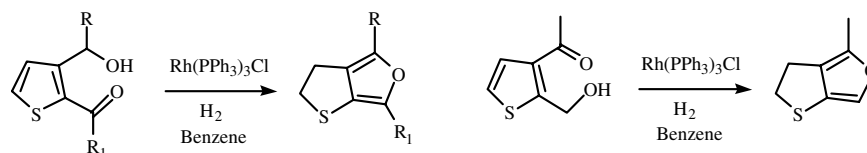
Graeme Cooke,\* James F. Garety, Suhil Mabruk, Gouher Rabani, Vincent M. Rotello, Gheorghe Surpateanu and Patrice Woisel



**Rapid synthesis of kahweofuran and its derivatives, the coffee aroma components**

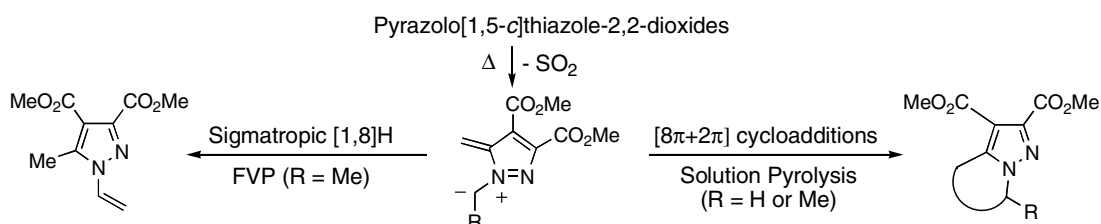
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Yanwu Li, Yusuke Murakami and Shigeo Katsumura\*

**New chemistry of diazafulvenium methides: one way to pyrazoles**

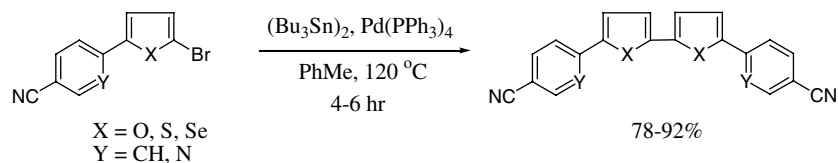
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Teresa M. V. D. Pinho e Melo,\* Maria I. L. Soares and António M. d'A. Rocha Gonsalves

**An efficient synthesis of 5,5'-diaryl-2,2'-bichalcophenes**

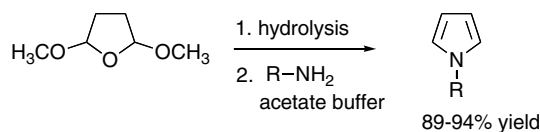
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Mohamed A. Ismail, David W. Boykin and Chad E. Stephens\*

**A new and high yielding synthesis of unstable pyrroles via a modified Clauson-Kaas reaction**

pp 799–801

Brendon S. Gourlay, Peter P. Molesworth, John H. Ryan and Jason A. Smith\*



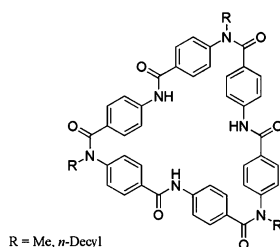
We report a new procedure for the Clauson-Kaas pyrrole synthesis that provides unstable and chiral *N*-substituted pyrroles in high yields and purity.



**Construction of macrocyclic structure using conformational properties of secondary and tertiary aromatic amides**

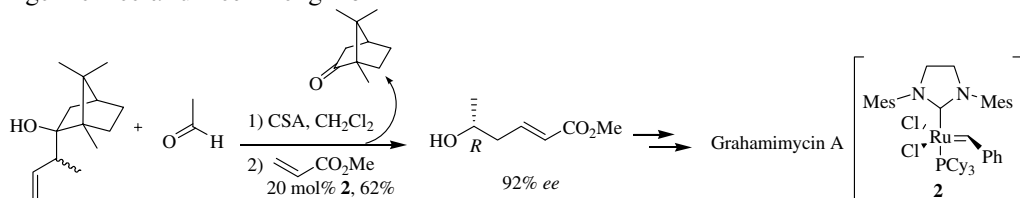
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Hyuma Masu, Takako Okamoto, Takako Kato, Kosuke Katagiri, Masahide Tominaga, Hiroaki Goda, Hiroaki Takayanagi and Isao Azumaya\*

**A highly enantioselective one-pot synthesis of homoallylic alcohols via tandem asymmetric allyl transfer/olefin cross metathesis**

pp 809–812

Cheng-Hsia Angeline Lee and Teck-Peng Loh\*

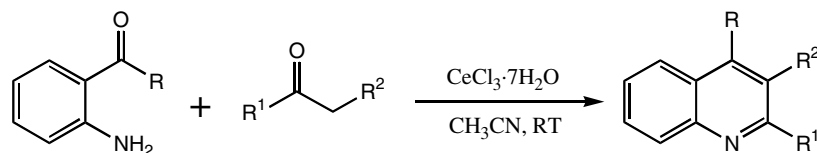


A highly enantioselective one-pot synthesis of linear homoallylic alcohols with terminal ester functionality has been achieved. The reactions were controlled by ordered addition of reagents and catalysts, ensuring complete consumption of aldehyde. The synthetic utility of this strategy has been demonstrated in a short synthesis of a low boiling point intermediate for grahamimycin A.

**An efficient, high yielding protocol for the synthesis of functionalized quinolines via the tandem addition/annulation reaction of *o*-aminoaryl ketones with  $\alpha$ -methylene ketones**

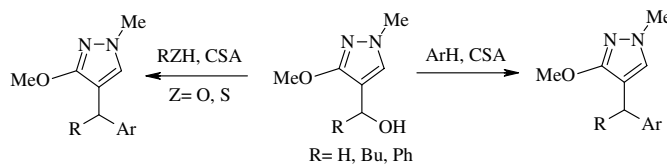
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D. Subhas Bose\* and Racherla Kishore Kumar

**New synthesis of 3-methoxy-4-substituted pyrazole derivatives**

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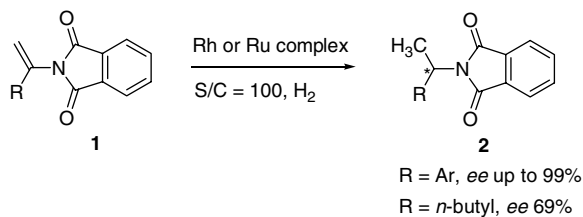
Bertrand Cottineau, Jacques Chenault and Gérald Guillaumet\*



**Highly enantioselective hydrogenation of *N*-phthaloyl enamides**

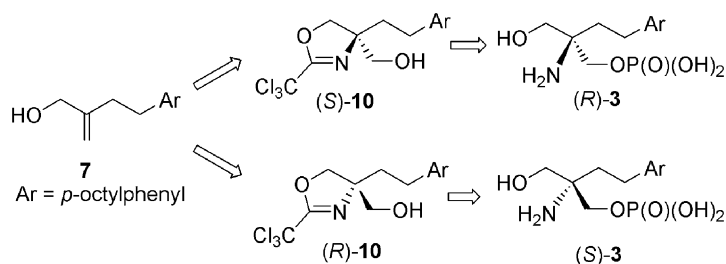
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Qin Yang, Wenzhong Gao, Jingen Deng and Xumu Zhang\*

**Enantioselective synthesis of the phosphate esters of the immunosuppressive lipid FTY720**

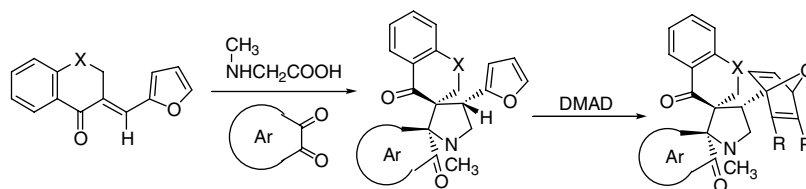
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Xuequan Lu and Robert Bittman\*

**A novel entry to dispiropyrrolo-bicyclo[2.2.1]heptanes through sequential 1,3-dipolar and Diels–Alder cycloaddition reactions**

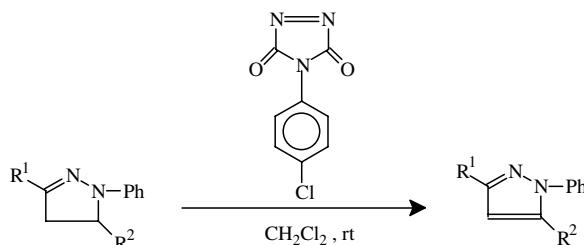
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Rathna Durga R. S. Manian, Jayadevan Jayashankaran, S. Selva Kumar and Raghavachary Raghunathan\*

**4-(*p*-Chloro)phenyl-1,2,4-triazole-3,5-dione as a novel and reusable reagent for the oxidation of 1,3,5-trisubstituted pyrazolines under mild conditions**

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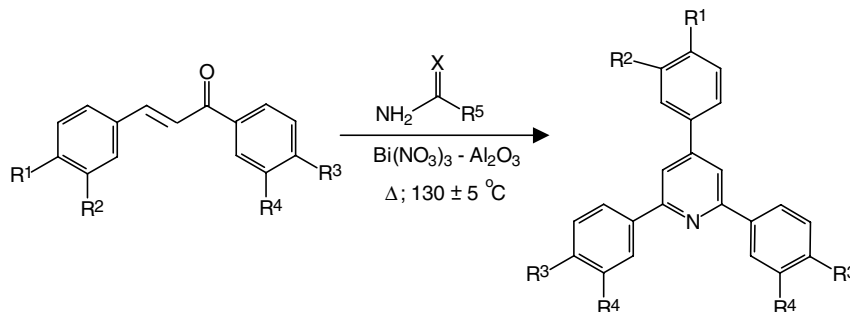
Mohammad Ali Zolfigol,\* Davood Azarifar, Shadpour Mallakpour, Iraj Mohammadpoor-Baltork, Ali Forghaniha, Behrooz Maleki and Mohammad Abdollahi-Alibeik



**A new and convenient one-pot solid supported synthesis of 2,4,6-triarylpyridines**

pp 837–842

Anil Kumar, Summon Koul, Tej K. Razdan\* and Kamal K. Kapoor

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\*Corresponding author

Supplementary data available via ScienceDirect

**COVER**

The cover picture shows a perspective of green multi-component reactions (MCRs) depicting the bringing together of simple reagents, and amino acid and potassium carbonate catalysts to produce substituted cyano-esters, which are analgesic and anti-inflammatory active compounds. Unlike conventional methods, green MCRs produces stereospecific products with very good yields in a single operation. Multi-component reactions depicted here support the potential of a rich variety of chemistries available to the pre-biotic world and beyond. *Tetrahedron Letters* **2006**, *47*, 651–656.

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