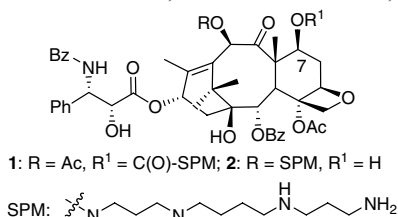


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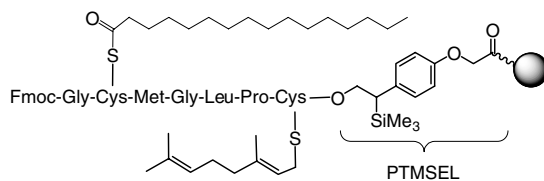
Arturo Battaglia,\* Andrea Guerrini,\* Eleonora Baldelli, Gabriele Fontana, Greta Varchi, Cristian Samorì and Ezio Bombardelli



Two conjugates at the 7- and 10-positions of paclitaxel and 10-deacetyl-paclitaxel with polyamine spermine have been synthesized. The low cytotoxicity evaluated in MCF7 and MCF7-R cell lines suggests that these conjugates could act as potential prodrugs.

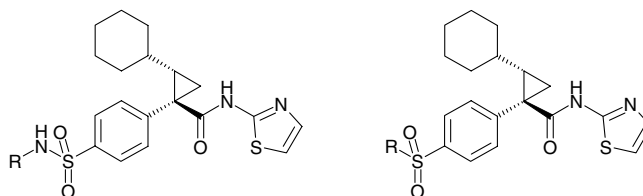
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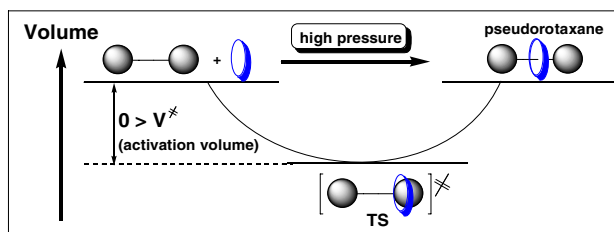
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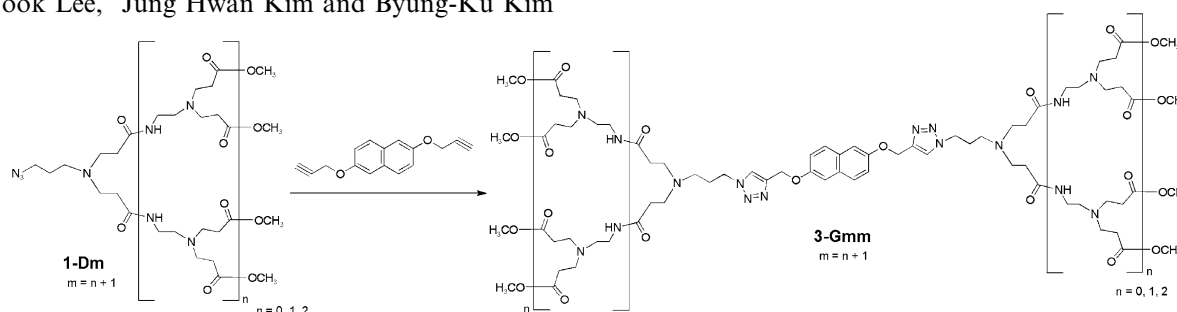
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### Synthesis of azide-functionalized PAMAM dendrons at the focal point and their application for synthesis of PAMAM-like dendrimers

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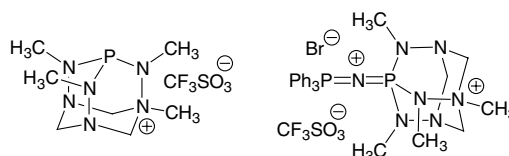
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### Design of neutral, mono- or di-cationic water-soluble trihydrazidophosphoradamantanes

pp 2687–2690

Maria Zabłocka\* and Carine Duhayon

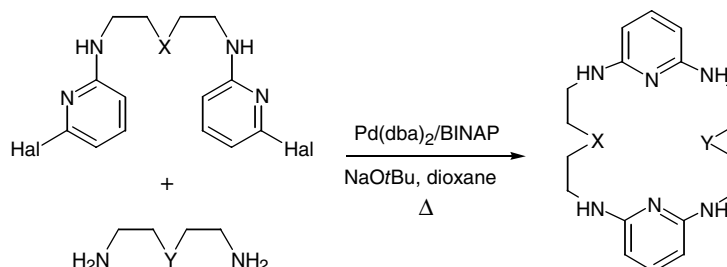


A trihydrazidophosphoradamantane was used as the starting reagent for the preparation of a variety of unique water-soluble cage-like compounds.

### Synthesis of macrocycles containing two pyridine and two polyamine moieties via Pd-catalyzed amination

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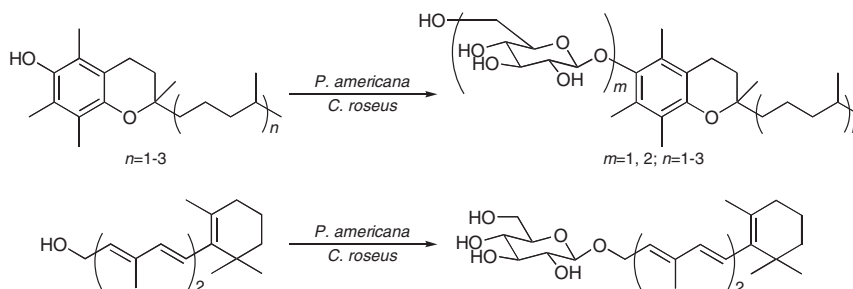
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**Formation of water-soluble vitamin derivatives from lipophilic vitamins by cultured plant cells**

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Kei Shimoda, Yoko Kondo, Koichi Abe, Hatsuyuki Hamada and Hiroki Hamada\*

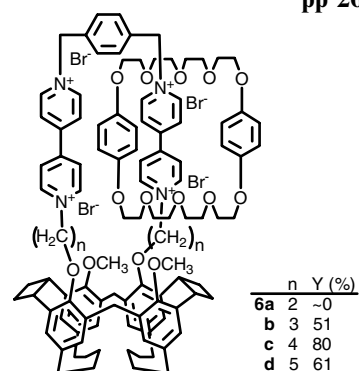


**Synthesis and characterization of chiral catenanes based on rigid calix[4]arene**

pp 2699–2702

Yukihiro Okada,\* Zhihui Miao, Miwa Akiba and Jun Nishimura\*

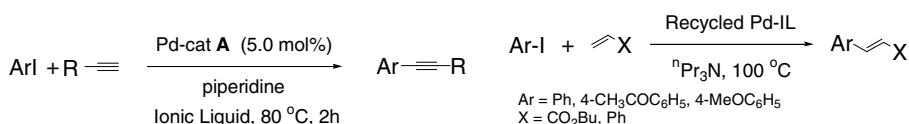
A new class of chiral calix[4]arene-based [2]catenanes was synthesized in excellent yields of 51–80%. The enantiomeric pure catenane was also obtained in excellent yield of 66% and assigned (+)-isomer.



**High throughput evaluation of the production of substituted acetylenes by the Sonogashira reaction followed by the Mizoroki–Heck reaction in ionic liquids, in situ, using a novel array reactor**

pp 2703–2706

Md. Taifur Rahman, Takahide Fukuyama, Ilhyong Ryu, Kanae Suzuki, Koichi Yonemura, Philip F. Hughes and Kiyoshi Nokihara\*

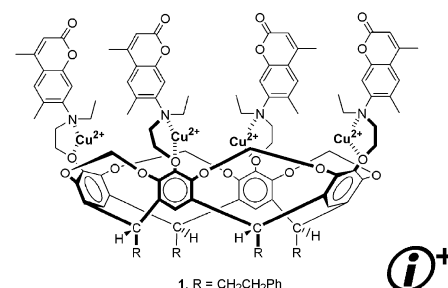


**New cavitand derivatives bearing four coumarin groups as fluorescent chemosensors for Cu<sup>2+</sup> and recognition of dicarboxylates utilizing Cu<sup>2+</sup> complex**

pp 2707–2710

Yun Jung Jang, Byung-Sik Moon, Min Sun Park, Bong-Gu Kang, Ji Young Kwon, Jay Sung Joong Hong, Yeo Joon Yoon, Kap Duk Lee\* and Juyoung Yoon\*

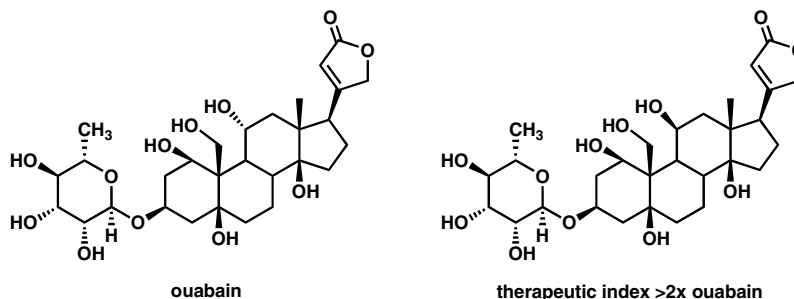
New cavitand derivative bearing four coumarin groups effectively senses Cu<sup>2+</sup>.



**Synthesis and properties of several isomers of the cardioactive steroid ouabain**

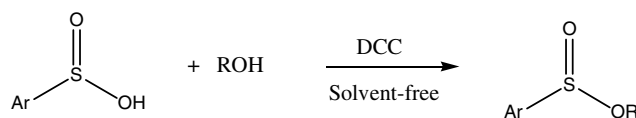
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Bor-Cherng Hong, Seongkon Kim, Tae-Seong Kim and E. J. Corey\*

**An efficient and novel method for the synthesis of sulfinate esters under solvent-free conditions**

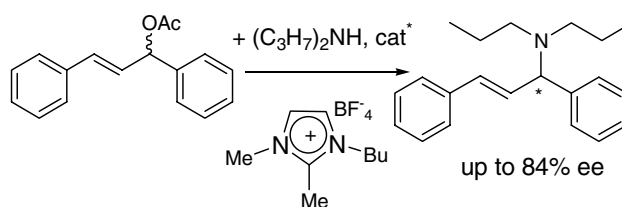
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Abdol R. Hajipour,\* Ali R. Falahati and Arnold E. Ruoho

**The use of an ionic liquid in asymmetric catalytic allylic amination**

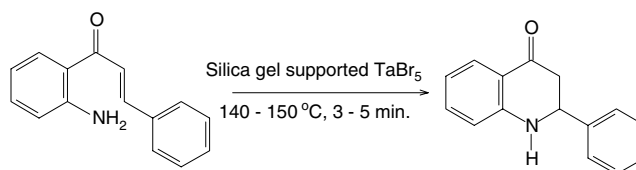
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Sergey E. Lyubimov,\* Vadim A. Davankov and Konstantin N. Gavrilov

**Silica gel supported TaBr<sub>5</sub>: new catalyst for the facile and rapid cyclization of 2'-aminochalcones to the corresponding 2-aryl-2,3-dihydroquinolin-4(1*H*)-ones under solvent-free conditions**

pp 2725–2729

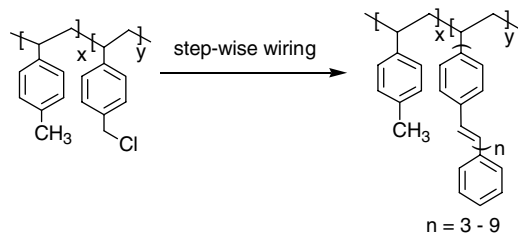
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**Oligo(phenylene vinylene)–poly(methylstyrene) hybrids: controlled step-wise molecular wiring of oligo(phenylene vinylene)**

pp 2731–2734

Rethi Madathil,\* Raman Parkesh and Sylvia M. Draper

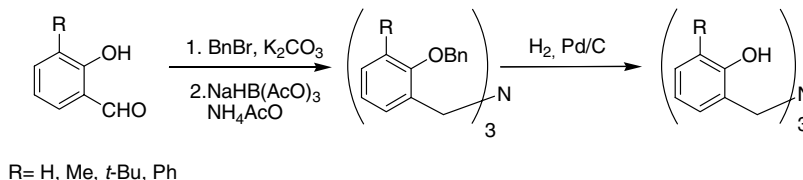


Oligo(phenylene vinylene) grafted polymers known as oligo(phenylene vinylene)–poly(methylstyrene) hybrids have been developed using a step-wise synthetic protocol.

**Effective synthesis of *ortho*-substituted triphenol amines via reductive amination**

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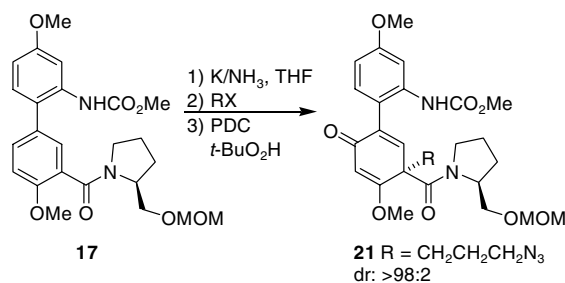
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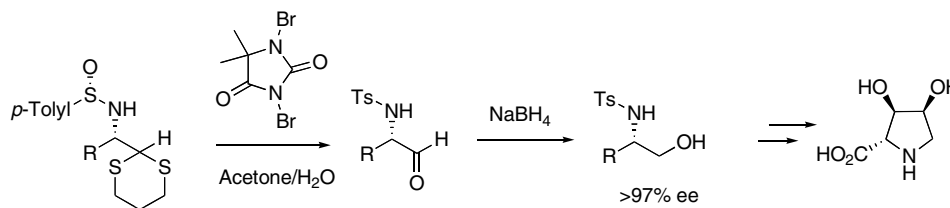
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**Asymmetric synthesis of  $\alpha$ -amino aldehydes from sulfinimine (*N*-sulfinyl imine)-derived  $\alpha$ -amino 1,3-dithianes. Formal synthesis of (–)-2,3-*trans*-3,4-*cis*-dihydroxyproline**

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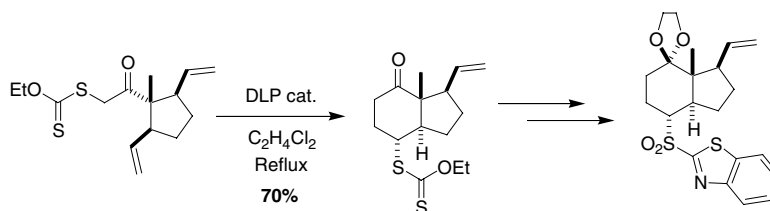
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**A short and convenient access to a *trans*-hydrindane unit from the *anti*-*meso*-acetylmethyldivinylcyclopentane via a radical pathway**

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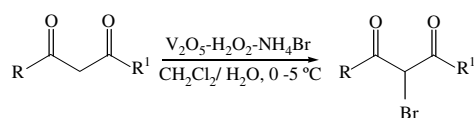
Anne-Sophie Chapelon, Cyril Ollivier\* and Maurice Santelli\*



**A mild and environmentally acceptable synthetic protocol for chemoselective  $\alpha$ -bromination of  $\beta$ -keto esters and 1,3-diketones**

pp 2751–2754

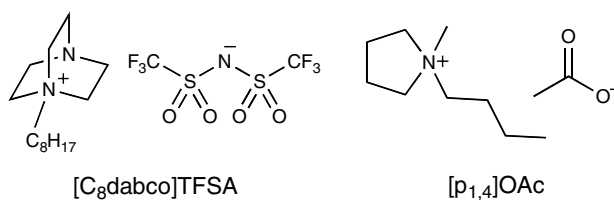
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**Novel Lewis-base ionic liquids replacing typical anions**

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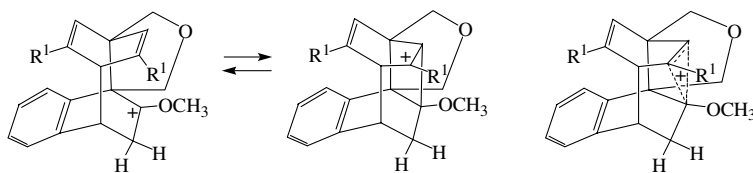
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**Protonation and rearrangement of the tricyclo[4.2.2.2<sup>2,5</sup>]dodeca-3,7,9,11-tetraene scaffold**

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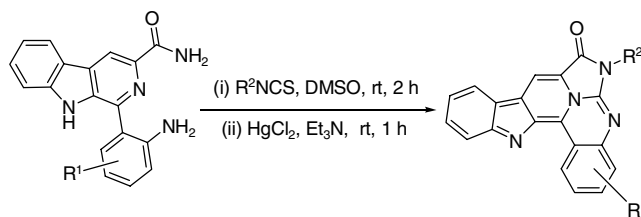
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**Synthesis of fused polycyclic nitrogen-containing heterocycles via cascade cyclization**

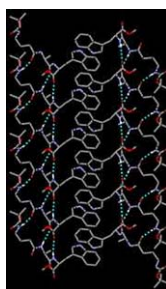
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**Nanozipper formation in the solid state from a self-assembling tripeptide with a single tryptophan residue**

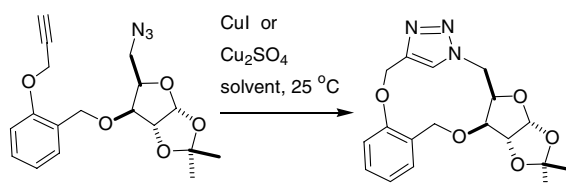
pp 2771–2774

Sudipta Ray, Michael G. B. Drew, Apurba K. Das, Debasish Haldar and Arindam Banerjee\*

**Cu(I)-Catalyzed cycloaddition of constrained azido-alkynes: access to 12- to 17-membered monomeric triazolophanes incorporating furanoside rings**

pp 2775–2778

Ankur Ray, K. Manoj, Mohan M. Bhadbhade, Ranjan Mukhopadhyay and Anup Bhattacharjya\*

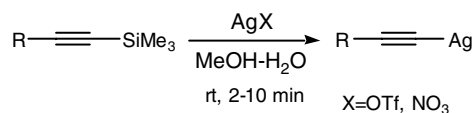


Furanoside ring- and peptide-appended azido-alkynes afforded monomeric 12- to 17-membered triazolophanes fused to furanoside rings via Cu(I)-catalyzed cycloaddition.

**A mild access to silver acetylides from trimethylsilyl acetylenes**

pp 2779–2781

Aurélien Vitérési, Alban Orsini, Jean-Marc Weibel and Patrick Pale\*

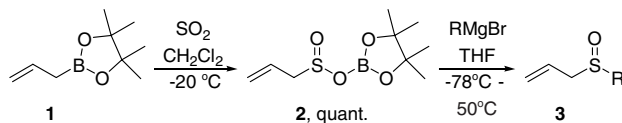


1-Trimethylsilyl-1-alkynes are selectively converted to the corresponding silver acetylides. Silver nitrate or triflate are used under neutral conditions, allowing other functional groups to remain unaffected.

**The bora-ene reaction of sulfur dioxide and prop-2-ene-1-boronic esters. New route to sulfoxides**

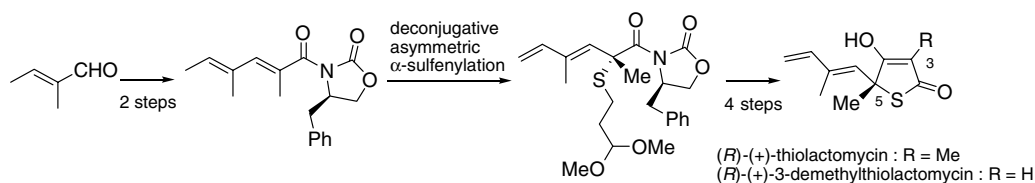
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Māris Turks, Adrien K. Lawrence and Pierre Vogel\*

**Efficient synthesis of enantiomeric pairs of thiolactomycin and its 3-demethyl derivative**

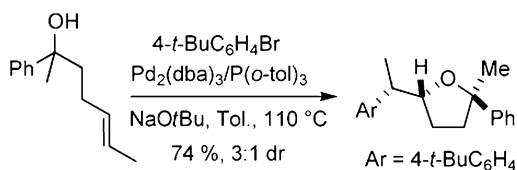
pp 2787–2791

Kohei Ohata\* and Shiro Terashima

**Synthesis of polysubstituted tetrahydrofurans via Pd-catalyzed carboetherification reactions**

pp 2793–2796

Michael B. Hay and John P. Wolfe\*

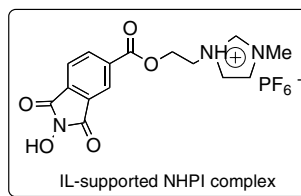
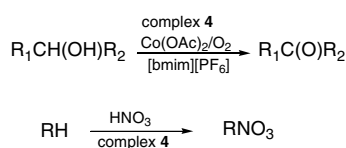


Pd-catalyzed carboetherifications of 1-, 2-, or 3-substituted γ-hydroxy internal alkenes afford tetrahydrofuran products bearing three stereocenters in good yield with moderate to good stereoselectivity.

**Synthetic utilities of ionic liquid-supported NHPI complex**

pp 2797–2801

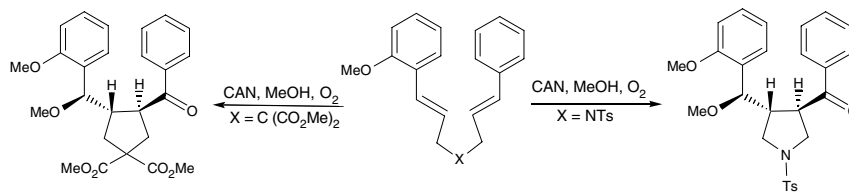
Shinichi Koguchi and Tomoya Kitazume\*



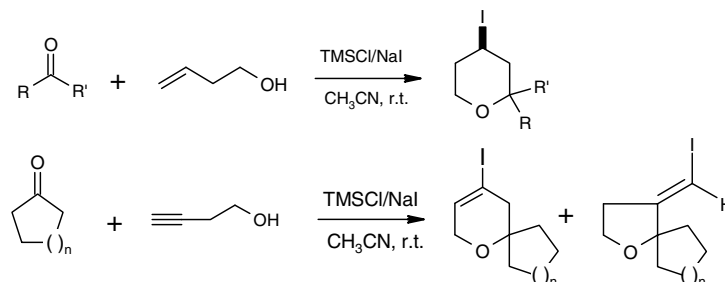


**Stereoselective synthesis of 3,4-*trans*-disubstituted pyrrolidines and cyclopentanes via intramolecular radical cyclizations mediated by CAN** pp 2803–2806

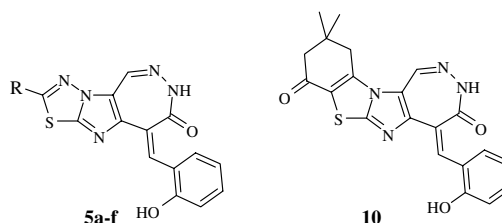
Vijay Nair,\* Kishor Mohanan, T. D. Suja and Eringathodi Suresh


**TMSI mediated Prins-type cyclization of ketones with homoallylic and homopropargylic alcohol: synthesis of 2,2-disubstituted-, spirocyclic-4-iodo-tetrahydropyrans and 5,6-dihydro-2*H*-pyrans** pp 2807–2810

Gowravaram Sabitha,\* K. Bhaskar Reddy, M. Bhikshapathi and J. S. Yadav

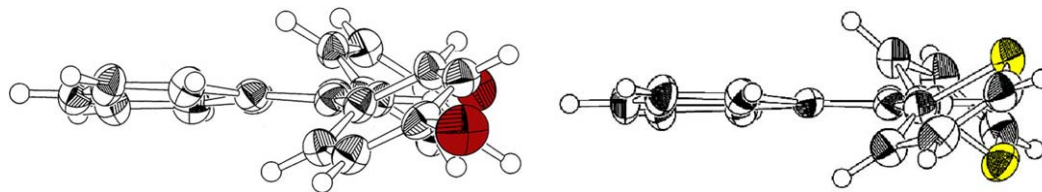

**Intramolecular amidation: synthesis of novel imidazo[2,1-*b*][1,3,4]thiadiazole and imidazo[2,1-*b*][1,3]thiazole fused diazepinones** pp 2811–2814

Gundurao Kolavi, Vinayak Hegde and Imtiyaz Ahmed Khazi\*


 Novel heterocyclic systems **5** and **10** have been synthesized by an interesting intramolecular amidation reaction.

**Out-of-plane deformation of the azulene ring in crystal structures of simply substituted azulene derivatives** pp 2815–2819

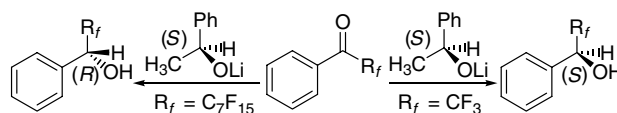
Akira Ohta, Nguyen Chung Thanh, Kouhei Terasawa, Kunihide Fujimori, Shigeyasu Kuroda and Mitsunori Oda\*



**Asymmetric reduction of perfluoroalkyl ketones with chiral lithium alkoxides**

pp 2821–2824

Yasser Samir Sokeirik, Kazuyuki Sato, Masaaki Omote, Akira Ando\* and Isumaro Kumadaki\*

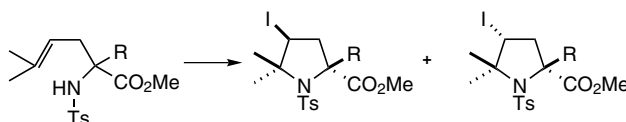


Aryl perfluoroalkyl ketones are reduced with chiral lithium alkoxide with high ee. The chirality of the products depends on the bulkiness of the perfluoroalkyl groups.

**On the rapid synthesis of highly substituted proline analogues by 5-endo-trig iodocyclisation**

pp 2825–2828

Muhammad Amjad and David W. Knight\*

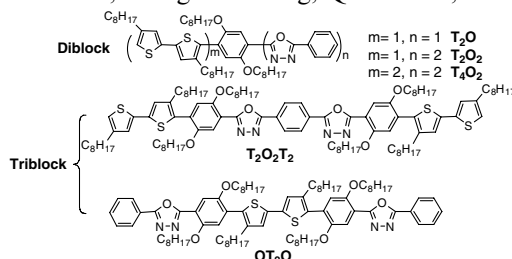


Iodocyclisations of highly substituted  $\alpha$ -sulfonylamino esters give excellent yields of proline analogues, with fair to good levels of stereocontrol.

**New p–n diblock and triblock oligomers: effective tuning of HOMO/LUMO energy levels**

pp 2829–2833

Jun-Hua Wan, Jia-Chun Feng, Gui-An Wen, Hong-Yu Wang, Qu-Li Fan, Wei Wei,\* Chun-Hui Huang and Wei Huang\*

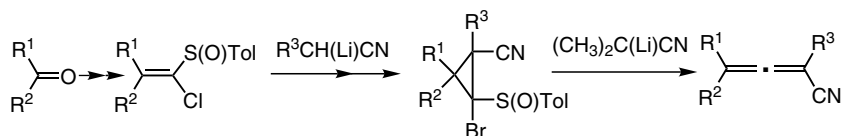


Changing the number of thiophene and oxadiazole units can modulate redox behavior and emission wavelength of the diblock oligomers. Furthermore, the electronic properties can also be significantly modulated by changing the molecular regiochemistry.

**A novel route to fully substituted cyanoallenes from three components, ketones, chloromethyl *p*-tolyl sulfonide, and nitriles, via  $\alpha$ -bromocyclopropyl *p*-tolyl sulfonides**

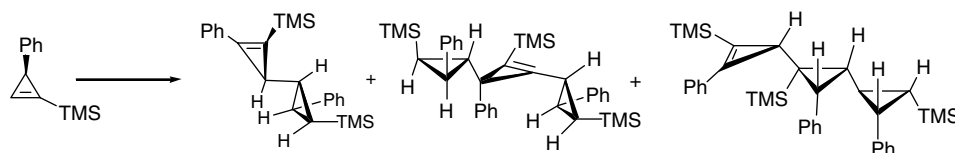
pp 2835–2838

Tsuyoshi Satoh\* and Youhei Gouda



**Stereocontrol in ene-dimerisation and trimerisation of 1-trimethylsilyl-3-phenylcyclopropene**

pp 2839–2843

Andrey E. Sheshenev, Mark S. Baird,\* Anna K. Croft, Zoya A. Starikova,  
Alexandre S. Shashkov, Alexey L. Zhuze and Ivan G. Bolesov

1-Trimethylsilyl-3-phenylcyclopropene undergoes a highly stereocontrolled ene-reaction to give a dimer and further reaction leads to one or more trimers derived through two ene-reactions.

\*Corresponding author

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

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

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