

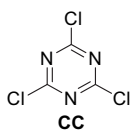
Contents

REPORT

Recent applications of 2,4,6-trichloro-1,3,5-triazine and its derivatives in organic synthesis

Grzegorz Blotny

pp 9507–9522



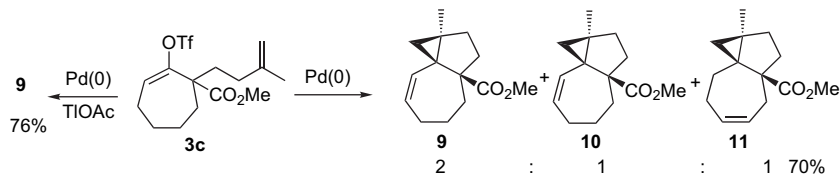
A new recently published application of 2,4,6-trichloro-1,3,5-triazine (CC) and its derivatives in organic synthesis are reviewed.

ARTICLES

Palladium catalysed bis- and tris-cyclisations furnishing fused cyclopropyl carbo/heterocycles

Ronald Grigg,* Uthai Sakee, Visuvanathar Sridharan, Sukanthini Sukirthalingam and Ravishanker Thangavelauthum

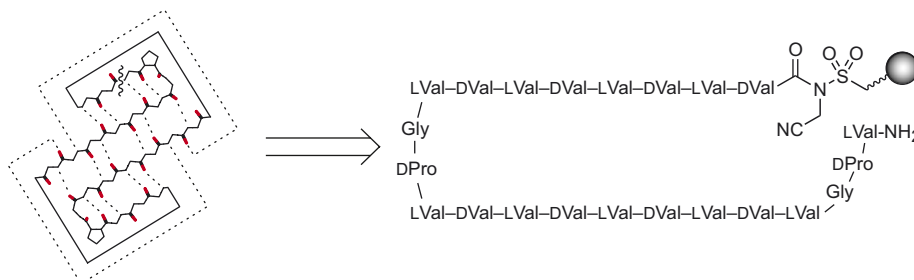
pp 9523–9532



Solid-phase synthesis of backbone-cyclized β -helical peptides

Thomas D. Clark,* Mallika Sastry, Christopher Brown and Gerhard Wagner

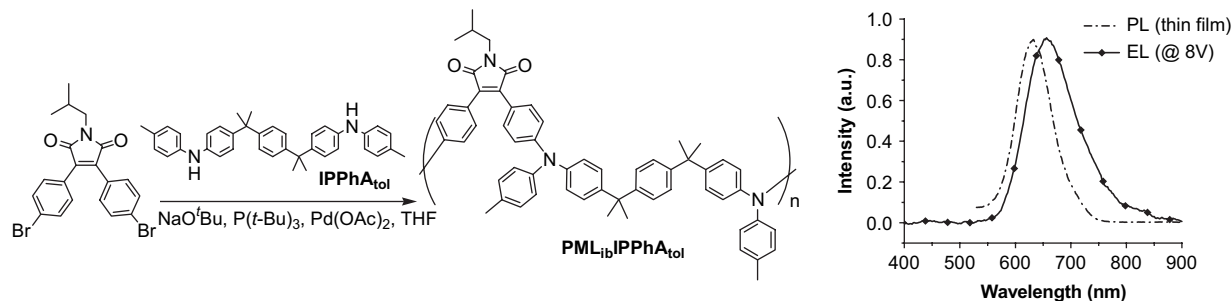
pp 9533–9540



Achieving saturated red photoluminescence and electroluminescence with readily synthesized maleimide-arylamine copolymers

pp 9541–9547

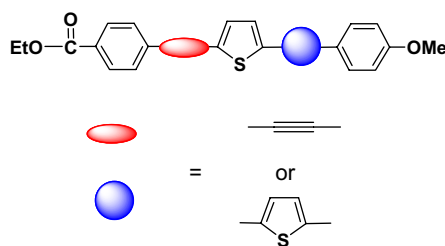
Li-Hsin Chan, Yu-Der Lee* and Chin-Ti Chen*



Introduction of ethynylene and thienylene spacers into 2,5-diarylthiazole and 2,5-diarylthiophene

pp 9548–9553

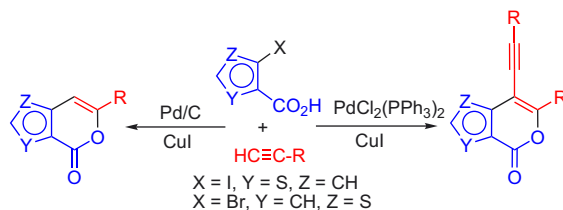
Kei Kobayashi, Mohamed S. Mohamed Ahmed and Atsunori Mori*



Tandem versus single C–C bond forming reaction under palladium–copper catalysis: regioselective synthesis of α -pyrones fused with thiophene

pp 9554–9570

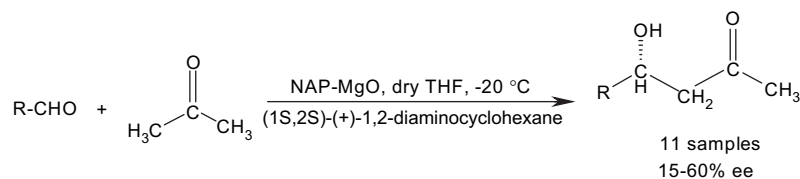
Sirisilla Raju, Venkateswara Rao Batchu, Nalivela Kumara Swamy, R. Vasu Dev, Bukkapattanam R. Sreekanth, J. Moses Babu, K. Vyas, P. Rajender Kumar, K. Mukkanti, Pazhanimuthu Annamalai and Manojit Pal*



Direct asymmetric aldol reaction catalyzed by nanocrystalline magnesium oxide

pp 9571–9576

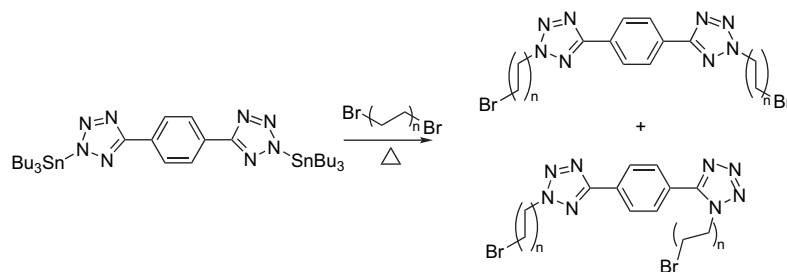
B. M. Choudary,* Lakkoju Chakrapani, Thekkathu Ramani, K. Vijay Kumar and M. Lakshmi Kantam*



Reactions of 1,4-bis(tetrazole)benzenes: formation of long chain alkyl halides

pp 9577–9581

Andrew D. Bond, Adrienne Fleming, Fintan Kelleher, John McGinley* and Vipa Prajapati

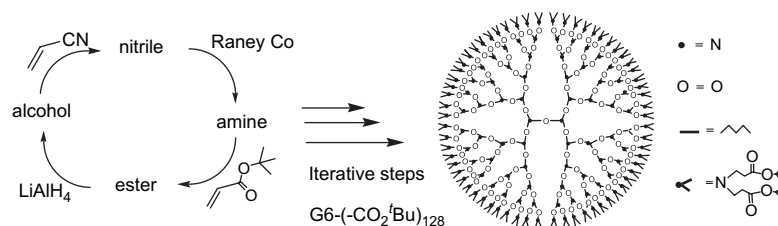


Reactions of 1,4-bis[2-(tributylstannyl)tetrazol-5-yl]benzene with α,ω -dibromoalkanes led to the formation of several alkyl halide derivatives, substituted variously at N1 or N2 on the tetrazole ring. The X-ray crystal structures of a number of derivatives are discussed.

Synthesis of large generation poly(propyl ether imine) (PETIM) dendrimers

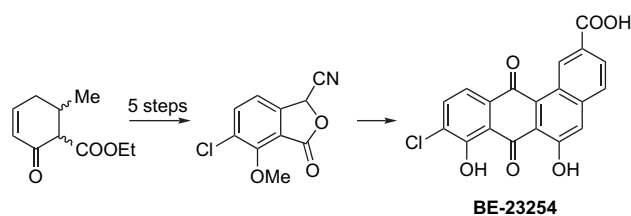
pp 9582–9588

Govindasamy Jayamurugan and Narayanaswamy Jayaraman*

**Synthesis of chlorine-containing angucycline BE-23254 and its analogs**

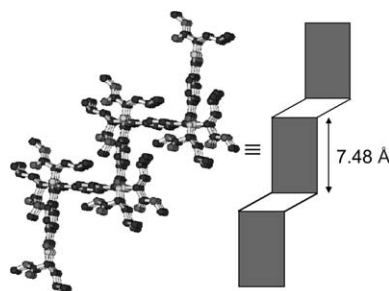
pp 9589–9602

Dipakranjan Mal* and Satyajit Dey

**Nanostaircase formation in the solid state from self-assembling synthetic terephthalamides with a common molecular scaffold**

pp 9603–9609

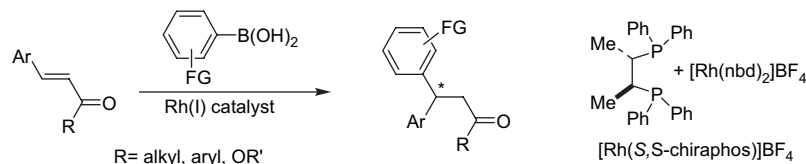
Sudipta Ray, Raghurama P. Hegde, Apurba Kumar Das, N. Shamala* and Arindam Banerjee*



1,4-Addition of arylboronic acids to β -aryl- α,β -unsaturated ketones and esters catalyzed by a rhodium(I)–chiraphos complex for catalytic and enantioselective synthesis of selective endothelin A receptor antagonists

pp 9610–9621

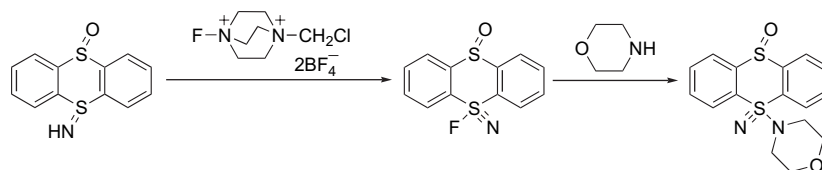
Takahiro Itoh,* Toshiaki Mase, Takashi Nishikata, Tetsuji Iyama, Hiroto Tachikawa, Yuri Kobayashi, Yasunori Yamamoto and Norio Miyaura*



10-Oxo-10H-5 λ^4 ,10 λ^4 -thianthren-5-ylideneamine as a probe for stereochemistry in the formation and amination of fluoro- λ^6 -sulfanenitriles

pp 9622–9627

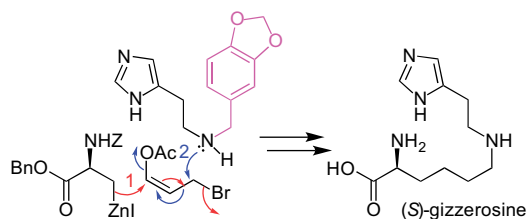
Takayoshi Fujii,* Tomoyoshi Takano, Shinsuke Asai, Hiroyuki Morita, Mitsuo Hirata and Toshiaki Yoshimura*



Synthesis of (S)-gizzerosine, a potent inducer of gizzard erosion in chicks

pp 9628–9634

Yasuharu Shimasaki, Hiromasa Kiyota,* Minoru Sato and Shigefumi Kuwahara



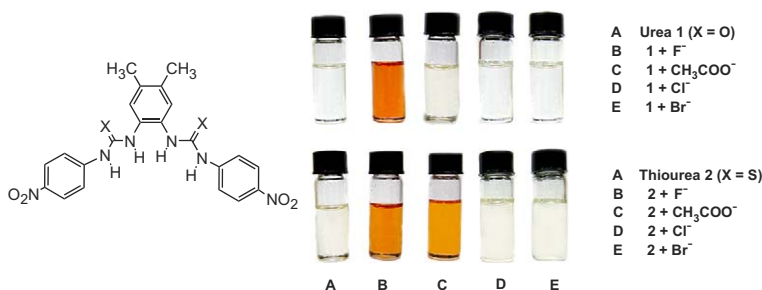
(S)-Gizzerosine, a potent inducer of gizzard erosion in chicks, was synthesized using successive zinc-mediated and palladium-catalyzed coupling reactions as the key steps.

Urea/thiourea-based colorimetric chemosensors for the biologically important ions: efficient and simple sensors

pp 9635–9640

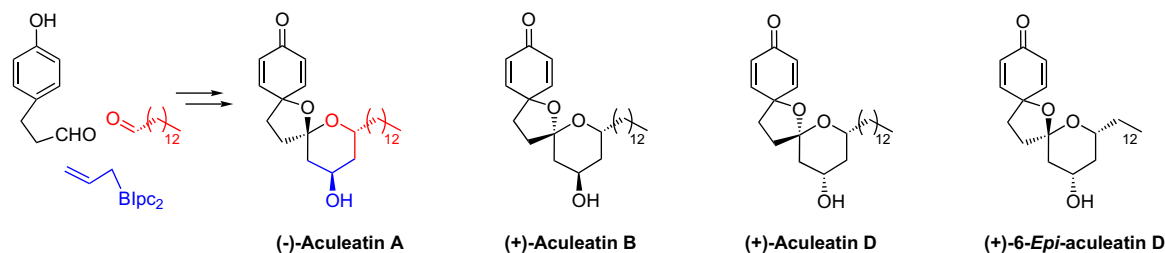
Yeong-Joon Kim,* Han Kwak, Se Jin Lee, Je Sin Lee, Hyun Jung Kwon, Sang Ho Nam, Kyoungrim Lee and Cheal Kim*

Urea **1** and thiourea **2**, effectively and selectively, recognized the biologically important F^- and carboxylate anions from other anions such as Cl^- and Br^- in DMSO.



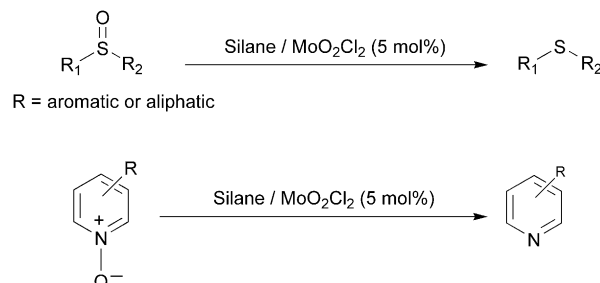
Enantioselective synthesis and absolute configurations of aculeatins A, B, D, and 6-*epi*-aculeatin D pp 9641–9649

Paula Álvarez-Bercedo, Eva Falomir,* Miguel Carda and J. A. Marco*

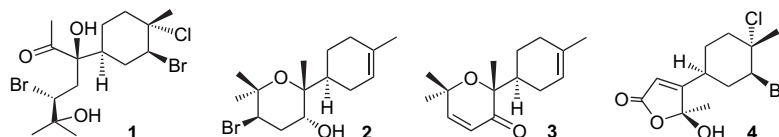
**A novel method for the reduction of sulfoxides and pyridine *N*-oxides with the system silane/MoO₂Cl₂** pp 9650–9654

Ana C. Fernandes* and Carlos C. Romão

The system silane/MoO₂Cl₂ (5 mol %) proved to be very efficient for the reduction of aliphatic and aromatic sulfoxides and pyridine *N*-oxides to the corresponding sulfides and pyridines in good yields.

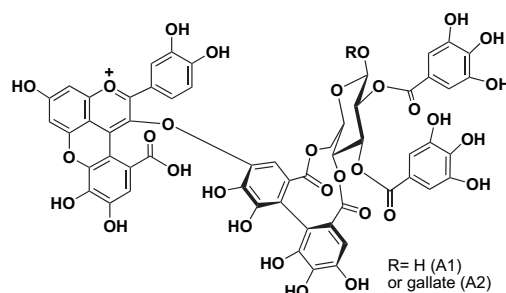
**Aplysiadiol from *Aplysia dactylomela* suggested a key intermediate for a unified biogenesis of regular and irregular marine algal bisabolene-type metabolites** pp 9655–9660

Inmaculada Brito, Teresa Dias, Ana R. Díaz-Marrero, José Darías and Mercedes Cueto*

**Two novel blue pigments with ellagitannin moiety, rosacyanins A1 and A2, isolated from the petals of *Rosa hybrida*** pp 9661–9670

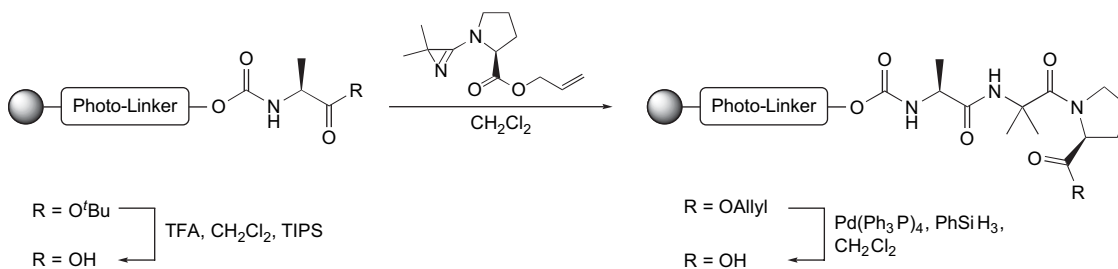
Yuko Fukui,* Kyosuke Nomoto,* Takashi Iwashita, Katsuyoshi Masuda, Yoshikazu Tanaka and Takaaki Kusumi

The structure of rosacyanin A1 and A2 consisted of a common chromophore containing cyanidin with a galloyl group link between positions 4 and 5 of the flavylum nucleus and tellimagrandins (1 or 2).



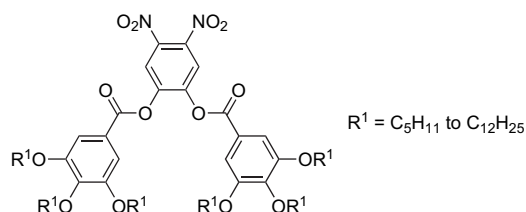
Introduction of the Aib-Pro unit into peptides by means of the ‘azirine/oxazolone method’ on solid phase pp 9671–9680

Simon Stamm and Heinz Heimgartner*



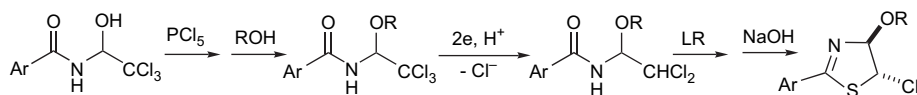
Gallic esters of 4,5-dinitrocatechol as potential building blocks for thermotropic liquid crystals pp 9681–9687

Roxana Judele, Sabine Laschat,* Angelika Baro and Manfred Nimtz



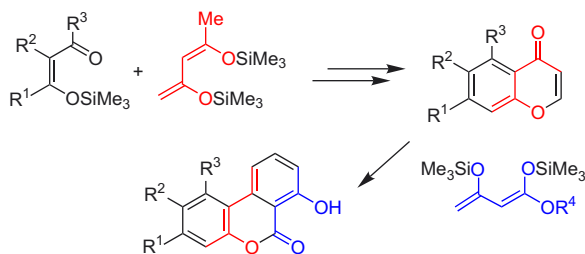
Stereoselective synthesis of (E)-4-alkoxy-2-aryl-5-chloro-2-thiazolines pp 9688–9693

Antonio Guirado,* Raquel Andreu, Bruno Martiz and Sergio Pérez-Ballester



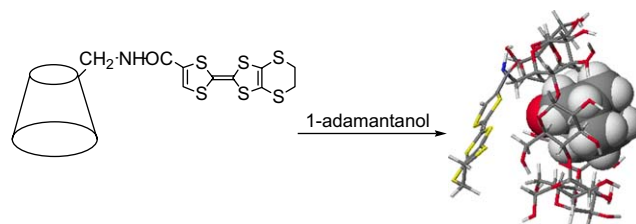
Synthesis of 7-hydroxy-6H-benzo[c]chromen-6-ones based on a ‘[3+3] cyclization/domino retro-Michael–aldol–lactonization’ strategy pp 9694–9700

Ehsan Ullah, Bettina Appel, Christine Fischer and Peter Langer*



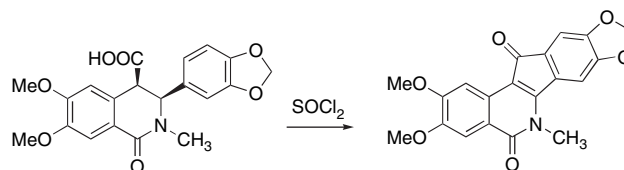
Synthesis and inclusion capability of a β -cyclodextrin-tetrathiafulvalene derivative

pp 9701–9704

Georgiana G. Surpateanu, David Landy, Catalin N. Lungu, Sophie Fourmentin, Gheorghe Surpateanu,*
Céline Réthoré and Narcis Avarvari***On the mechanism of conversion of 4-carboxy-3,4-dihydro-3-phenyl-1(2*H*)-isoquinolones to indeno[1,2-*c*]isoquinolines by thionyl chloride**

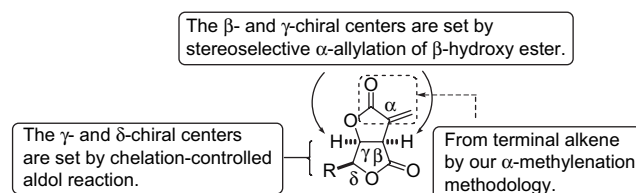
pp 9705–9712

Xiangshu Xiao, Andrew Morrell, Phillip E. Fanwick and Mark Cushman*

**Dibromomethane as one-carbon source in organic synthesis: total synthesis of (\pm)-canadensolide**

pp 9713–9717

Yung-Son Hon* and Cheng-Han Hsieh

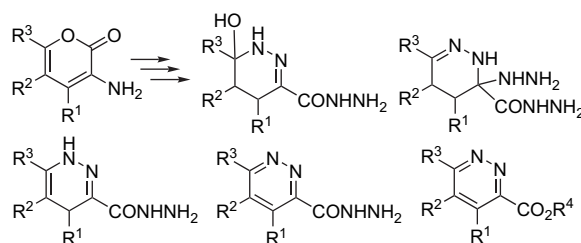


A diastereoselective total synthesis of (\pm)-canadensolide is described. The key step is to introduce the α -methylene group by the ozonolysis of mono-substituted alkenes followed by reaction with a preheated mixture of CH_2Br_2 – Et_2NH .

The synthesis of heterocyclic derivatives from pyran-2-ones and hydrazine hydrate. Ammonium cerium(IV) nitrate as an efficient oxidant in pyridazine chemistry

pp 9718–9725

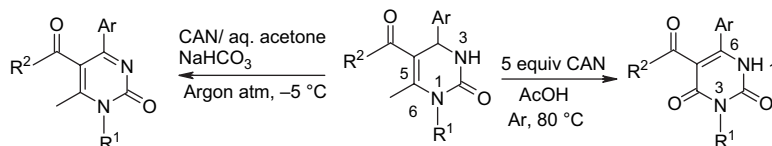
Franc Požgan, Slovenko Polanc and Marijan Kočevár*



Regioselective dehydrogenation of 3,4-dihydropyrimidin-2(1*H*)-ones mediated by ceric ammonium nitrate

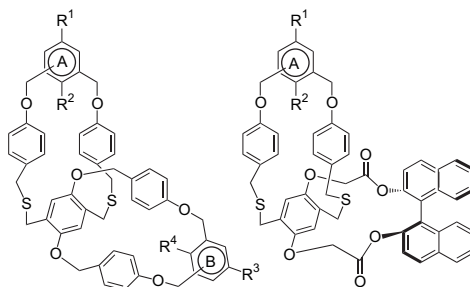
pp 9726–9734

P. Shanmugam and P. T. Perumal*


Synthesis and complexation studies of intra annularly linked bicyclic cyclophanes

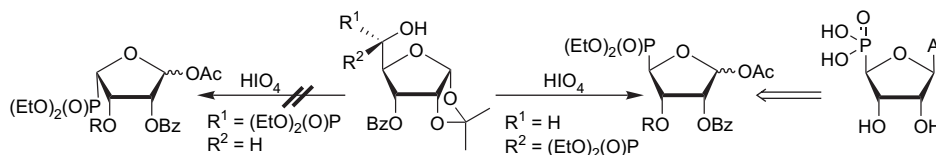
pp 9735–9741

Perumal Rajakumar* and Rajagopal Kanagalatha


Oxidative cleavage of ribofuranose 5-(α -hydroxyphosphonates): a route to erythrofuranose-based nucleoside phosphonic acids

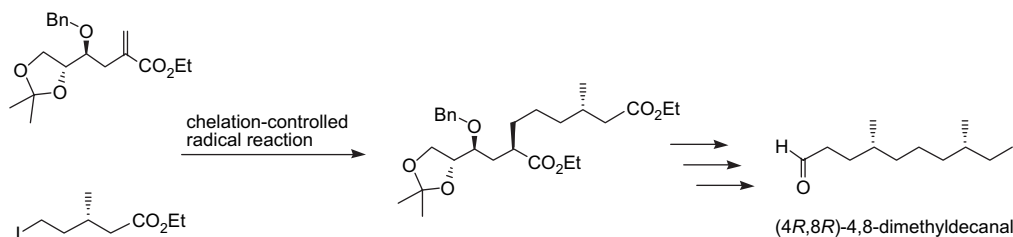
pp 9742–9750

Šárka Králíková, Miloš Buděšínský, Ivana Tomečková and Ivan Rosenberg*


Radical mediated stereoselective synthesis of (4*R*,8*R*)-4,8-dimethyldecanal, an aggregation pheromone of *Tribolium* flour beetles

pp 9751–9757

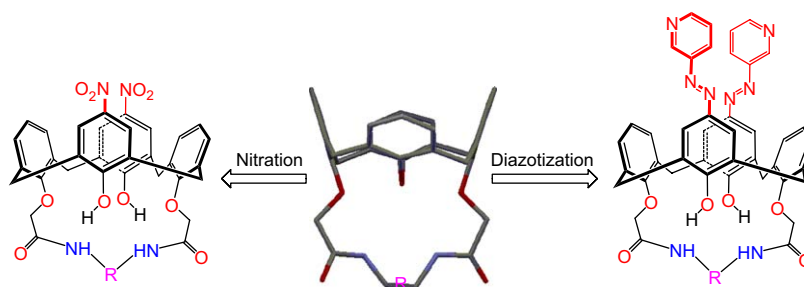
Yoko Kameda and Hajime Nagano*



Synthesis of calix[4]arene(amido)monocrowns and their photoresponsive derivatives

pp 9758–9768

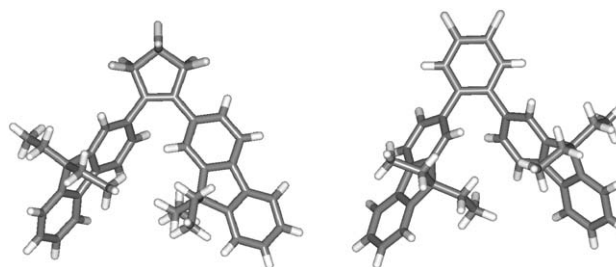
Har Mohindra Chawla,* Suneel Pratap Singh and Shailesh Upreti

**Effect of a perfluorocyclopentene core unit on the structures and photoluminescence of fluorene- and anthracene-based compounds**

pp 9769–9777

Mijung Han, Sooyong Lee, Jonghwa Jung, Ki-Min Park, Soon-Ki Kwon, Jaejung Ko,* Phil Ho Lee* and Youngjin Kang*

A series of fluorene- and anthracene-based compounds linked by perfluorocyclopentene core unit have been synthesized and characterized, and compounds **1** and **5** have been confirmed by X-ray single-crystal analysis. These compounds show a bright blue emission with high photoluminescence quantum efficiency.



*Corresponding author

Supplementary data available via ScienceDirect



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