

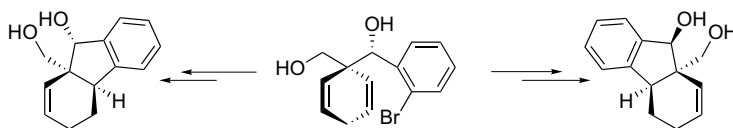
## Contents

### COMMUNICATIONS

#### Stereodivergent radical cyclisation reactions of cyclohexa-1,4-dienes

pp 2957–2959

Mark C. Elliott\* and Nahed Nasser Eid El Sayed

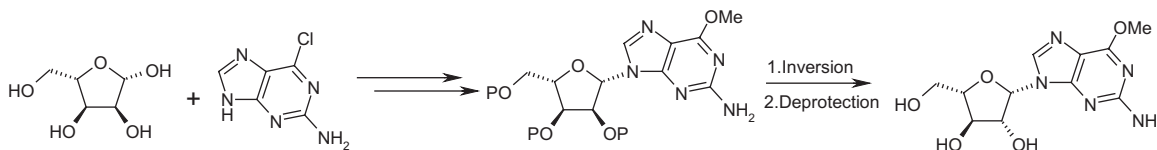


Either isomer can be formed with good stereocontrol depending on choice of protecting group on oxygen.

#### Synthesis of the enantiomer of nelarabine

pp 2961–2964

Karim Herbal,\* John Kitteringham, Martyn Voyle and Andrew J. Whitehead

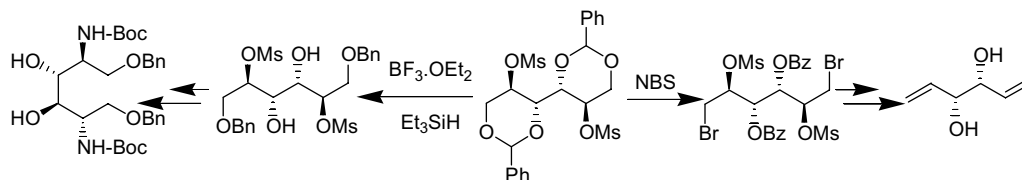


A synthesis of the enantiomer of nelarabine is described. Subtle changes in the protecting group strategy allow for an efficient inversion of the C-2' stereocentre.

#### Regioselective cleavage of the bis-benzylidene acetal of D-mannitol under oxidative and reductive conditions: a new approach to C<sub>2</sub>-symmetric chiral ligands

pp 2965–2968

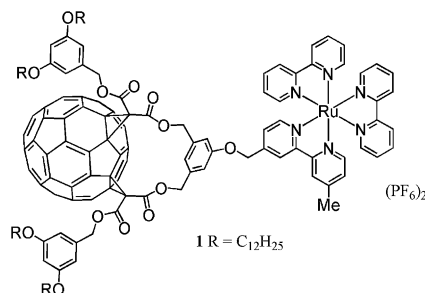
Appu Aravind, Subhendu K. Mohanty, T. Veerabhadra Pratap and Sundarababu Baskaran\*



**An amphiphilic C<sub>60</sub> derivative with a tris(2,2'-bipyridine)ruthenium(II) polar head group: synthesis and incorporation in Langmuir films**

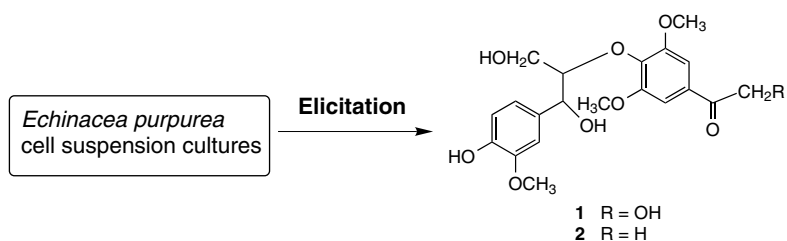
pp 2969–2972

François Cardinali, Jean-Louis Gallani, Stefano Schergna, Michele Maggini\* and Jean-François Nierengarten\*


**Biotechnological production of two new 8,4'-oxynorneolignans by elicitation of *Echinacea purpurea* cell cultures**

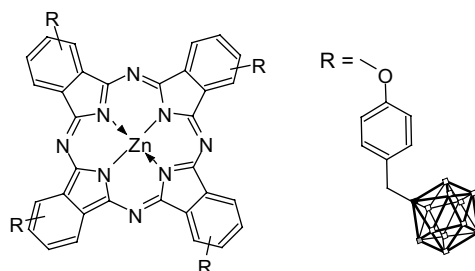
pp 2973–2977

Wen-Wu Li\* and Wolfgang Barz


**Synthesis of tetrasubstituted Zn(II)-phthalocyanines carrying four carboranyl-units as potential BNCT and PDT agents**

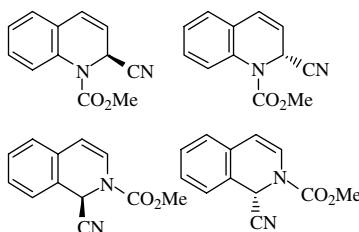
pp 2979–2982

Francesca Giuntini, Yann Raoul, Donata Dei,\* Moira Municchi, Giacomo Chiti, Clara Fabris, Paolo Colautti, Giulio Jori and Gabrio Roncucci


**Synthesis of chiral N-protected 1,2-dihydro-quinoline-2-carbonitrile and 1,2-dihydro-isoquinoline-1-carbonitrile via an asymmetric Reissert reaction**

pp 2983–2987

Mickaël Pauvert, Sylvain C. Collet, Marie-Jo Bertrand, André Y. Guingant\* and Michel Evain



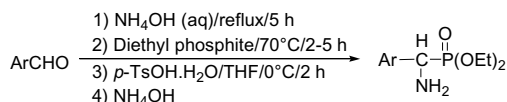
The asymmetric synthesis of each of the above Reissert adducts has been realised.



**A simple and convenient procedure for the synthesis of 1-aminophosphonates from aromatic aldehydes**

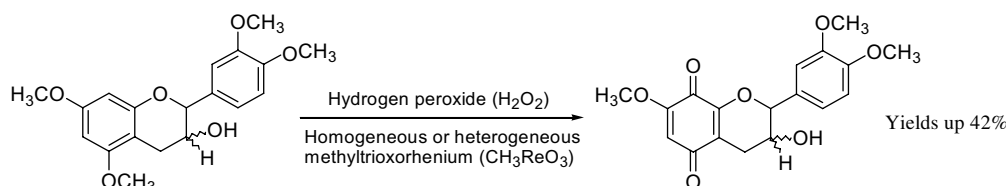
pp 2989–2991

Babak Kaboudin\* and Khavar Moradi

**Catalytic oxidation of catechins to *p*-benzoquinones with hydrogen peroxide/methyltrioxorhenium**

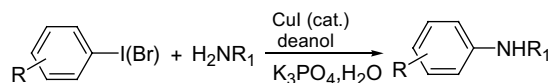
pp 2993–2996

Roberta Bernini,\* Enrico Mincione, Gianfranco Provenzano and Giancarlo Fabrizi\*

**Copper-catalyzed aryl amination in aqueous media with 2-dimethylaminoethanol ligand**

pp 2997–3001

Zhikuan Lu and Robert J. Twieg\*

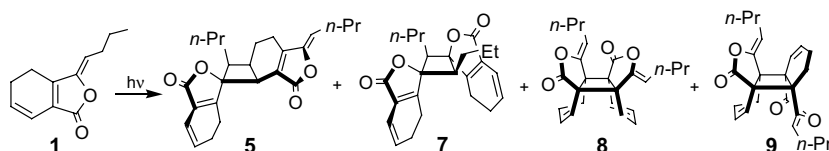


Copper-catalyzed amination of aryl bromides and iodides under mild conditions has been developed with 2-dimethylaminoethanol as ligand and water as solvent. A variety of hydrophilic and hydrophobic aryl halide substrates have been aminated in good yield with a variety of amino acids, amino alcohols and peptides.

**Photocyclodimers from *Z*-ligustilide. Experimental results and FMO analysis**

pp 3003–3006

Beatriz Quiroz-García, Ricardo Figueroa, J. Antonio Cogordan and Guillermo Delgado\*

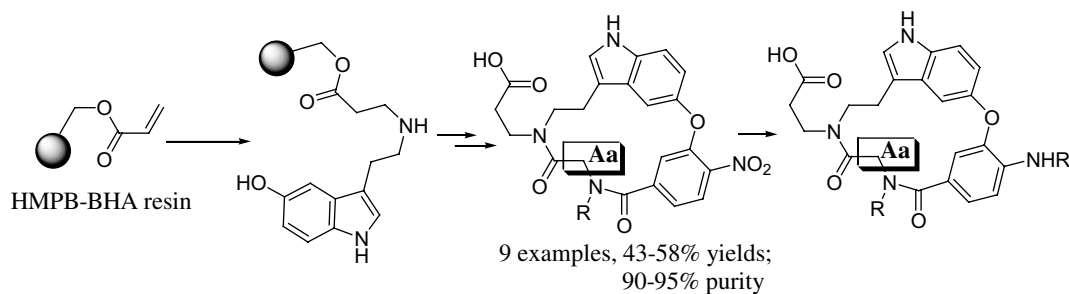


The irradiation of the natural phthalide *Z*-ligustilide (**1**) gave the natural dimeric phthalide riligustilide (**5**), and three novel dimeric phthalides **7**, **8** and **9**.

**Solid support synthesis of 15-membered macrocycles containing a serotonin unit**

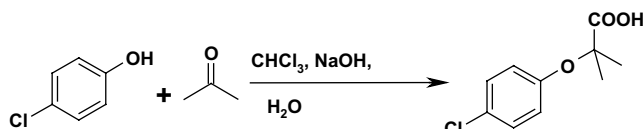
pp 3007–3010

Alexander S. Kiselyov

**Water-based biphasic media for exothermic reactions: green chemistry strategy for the large scale preparation of clofibric acid and analogues**

pp 3011–3013

Ajay K. Bose,\* Maghar S. Manhas, Subhendu N. Ganguly, Suhas Pednekar and Arun Mandadi

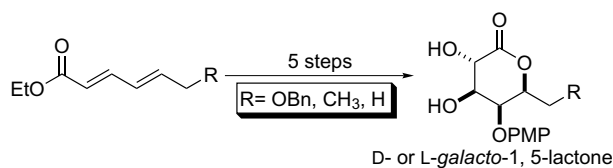


An eco-friendly improved procedure is described for the synthesis of clofibric acid and analogues.

**De novo synthesis of *galacto*-sugar  $\delta$ -lactones via a catalytic osmium/palladium/osmium reaction sequence**

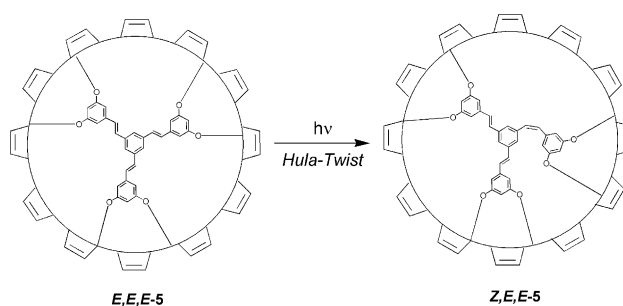
pp 3015–3019

Md. Moinuddin Ahmed and George A. O'Doherty\*

**The photochemical isomerization of cross-linked 1,3,5-tristyrylbenzene dendrimer with hula-twist mechanism**

pp 3021–3024

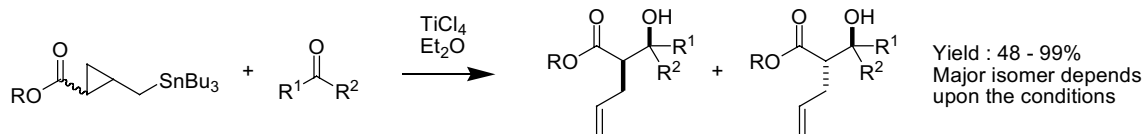
Mayuko Uda, Atsuya Momotake and Tatsuo Arai\*



**Efficient one-pot ring-opening/aldol reactions using (cyclopropyl)methylstannanes**

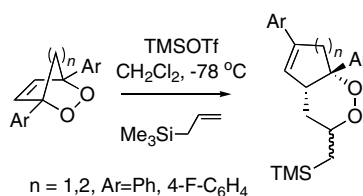
pp 3025–3028

Bernard Leroy

**Lewis acid catalysed rearrangements of unsaturated bicyclic [2.2.*n*] endoperoxides in the presence of vinyl silanes; access to novel Fenozan BO-7 analogues**

pp 3029–3032

Paul M. O'Neill,\* Sarah L. Rawe, Richard C. Storr, Stephen A. Ward and Gary H. Posner

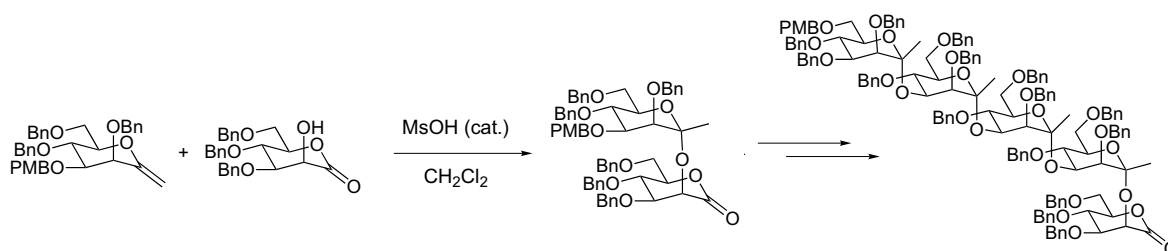


Five- and six-membered bicyclic [2.2.*n*] endoperoxides can readily be transformed into silyl containing endoperoxides in good yield and high stereoselectivity by treatment with allyltrimethylsilane and either TMSOTf or SnCl<sub>4</sub> as Lewis acid.

**Synthesis of PI-88 analogue using novel *O*-glycosidation of *exo*-methylenesugars**

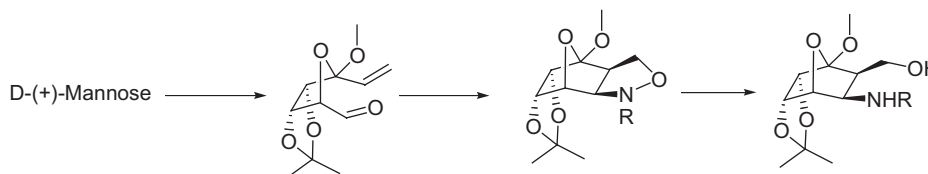
pp 3033–3036

Rie Namme, Takashi Mitsugi, Hideyo Takahashi and Shiro Ikegami\*

**Design and synthesis of novel oxa-bridged isoxazolidines and 1,3-aminoalcohols**

pp 3037–3040

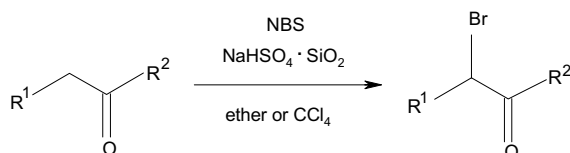
Krishna P. Kaliappan,\* Prasanta Das and Nirmal Kumar



**A simple and efficient method for  $\alpha$ -bromination of carbonyl compounds using *N*-bromosuccinimide in the presence of silica-supported sodium hydrogen sulfate as a heterogeneous catalyst**

pp 3041–3044

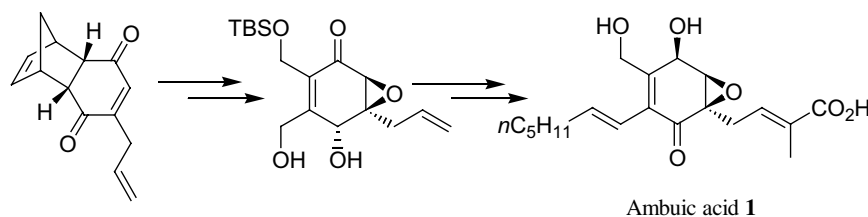
Biswanath Das,\* Katta Venkateswarlu, Gurram Mahender and Ibram Mahender



**A total synthesis of the epoxyquinone based antifungal natural product ( $\pm$ )-ambuic acid**

pp 3045–3048

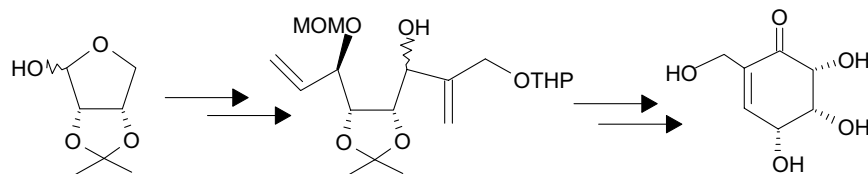
Goverdhan Mehta\* and Subhas Chandra Pan



**Stereoselective synthesis of (–)-gabosine C using a Nozaki–Hiyama–Kishi reaction and RCM**

pp 3049–3051

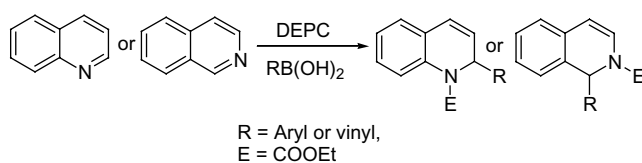
G. Venkata Ramana and B. Venkateswara Rao\*



**Petasis reaction of activated quinoline and isoquinoline with various boronic acids**

pp 3053–3056

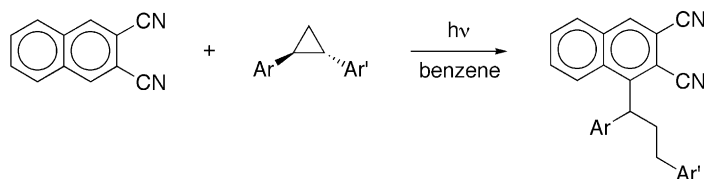
Yu Mi Chang, Seung Hwan Lee, Mi Hye Nam, Min Young Cho, Young Sang Park and Cheol Min Yoon\*



**Photoalkylation of 2,3-dicyanonaphthalene by methoxy-substituted 1,2-diarylcyclopropanes**

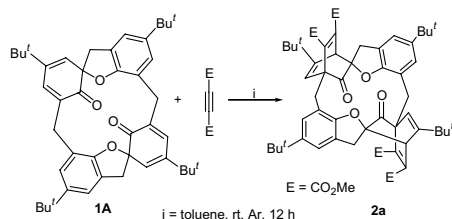
pp 3057–3060

Hajime Maeda, Naohiro Matsukawa, Koichiro Shirai and Kazuhiko Mizuno\*

**Diels–Alder reactions of bis(spirodienone) derivatives of calix[4]arene with acetylenes: highly regio- and stereoselective synthesis of bisbicyclo[2.2.2]octenone derivatives**

pp 3061–3063

R. Luxmi Varma,\* V. B. Ganga and E. Suresh

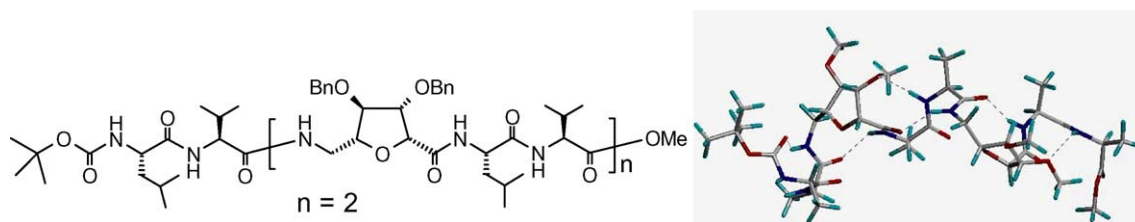


Highly regio- and stereoselective Diels–Alder reactions of bis(spirodienone) derivatives of calix[4]arene with acetylenes that provide easy access to bisbicyclo[2.2.2]octenones are described.

**Synthesis and structural studies of peptides containing a glucose-derived furanoid sugar amino acid**

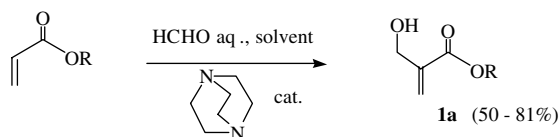
pp 3065–3070

Tushar K. Chakraborty,\* Saumya Roy, S. Kiran Kumar and Ajit C. Kunwar\*

**An efficient synthesis of alkyl  $\alpha$ -(hydroxymethyl)acrylates induced by DABCO in an aqueous medium**

pp 3071–3072

Taoufik Turki, Jean Villieras and Hassen Amri\*

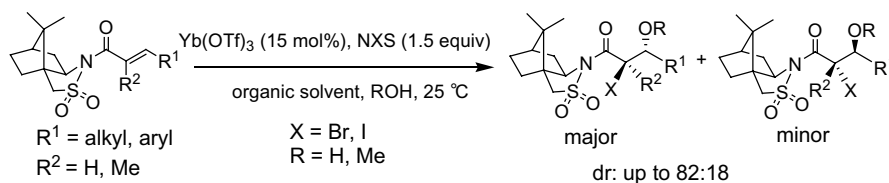


Alkyl  $\alpha$ -(hydroxymethyl)acrylates are prepared in high yields by coupling alkyl acrylates with 30% aqueous formaldehyde using DABCO as the catalyst and DME or THF as solvent.

**Lewis acid catalyzed asymmetric halohydrin reactions of chiral  $\alpha,\beta$ -unsaturated carboxylic acid derivatives with *N*-halosuccinimide (NXS) as the halogen source**

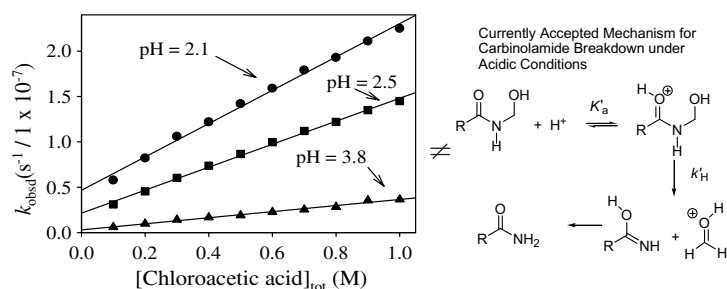
pp 3073–3077

Saumen Hajra,\* Manishabrata Bhowmick and Ananta Karmakar


**General-buffer catalysis of the reaction of *N*-(hydroxymethyl)benzamide: a new pathway for the aqueous reaction of carbinolamides**

pp 3079–3083

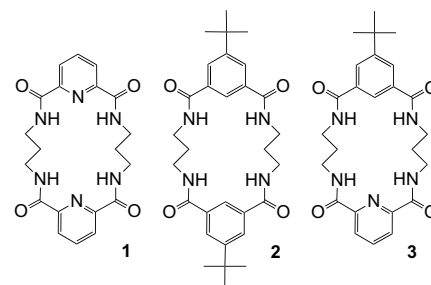
Amanda G. Mennenga, Amy L. Johnson and Richard W. Nagorski\*


**A hybrid macrocycle containing benzene and pyridine subunits is a better anion receptor than both its homoaromatic congeners**

pp 3085–3088

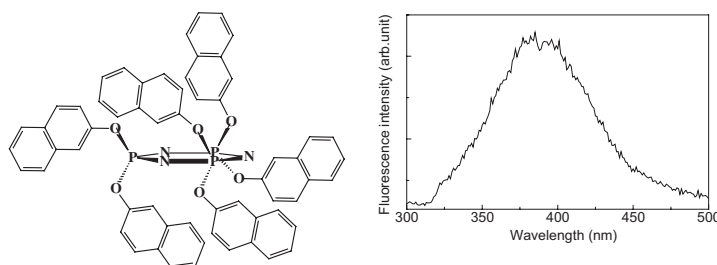
Michał J. Chmielewski and Janusz Jurczak\*

The hybrid tetraamide receptor **3** benefits from both suitable preorganization provided by the 2,5-diamidopyridine unit and good anion binding properties of the 1,3-diamidobenzene moiety and therefore is a better anion receptor than its homoaromatic counterparts **1** and **2**.


**Photophysical studies on multichromophoric cyclotriphosphazenes. Trinuclear excimer formation in hexakis(2-naphthyl)oxy)cyclotriphosphazene**

pp 3089–3092

Nitin Chattopadhyay,\* Basudeb Haldar, Arabinda Mallick and Saumitra Sengupta\*

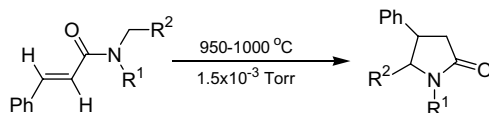




**Cyclisation at very high temperature. Thermal transformations of *N*-alkyl and *N,N*-dialkyl cinnamic amides into pyrrolidin-2-ones under FVT conditions**

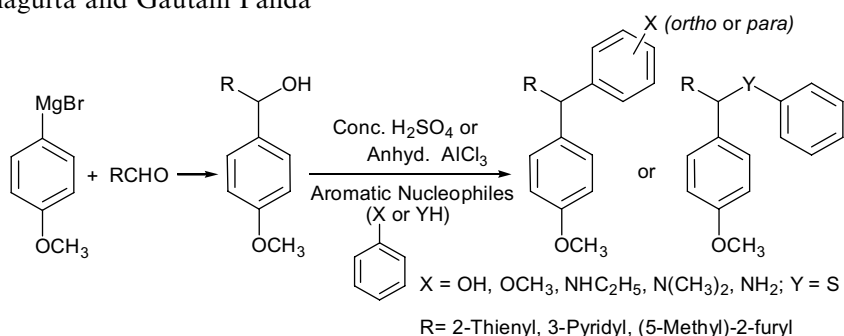
pp 3093–3095

Stanisław Leśniak\* and Beata Pasternak

**An easy access to unsymmetric trisubstituted methane derivatives (TRSMs)**

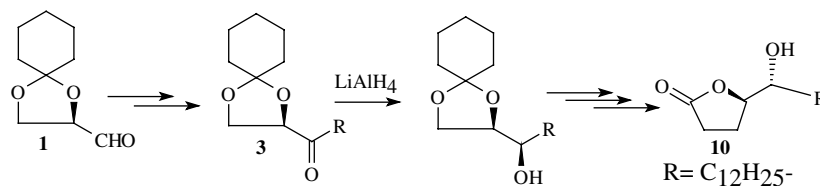
pp 3097–3102

Sajal Kumar Das, Shagufta and Gautam Panda\*

**(*R*)-2,3-Cyclohexyldieneglyceraldehyde, a novel template for facile and simple entry into chiral hydroxy  $\gamma$ -lactones: synthesis of (–)-muricatacin**

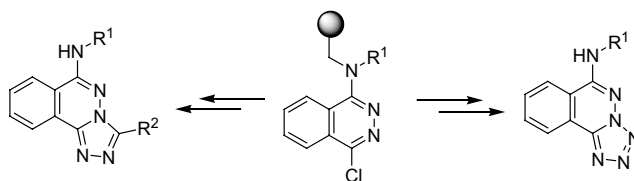
pp 3103–3105

Bhaskar Dhotare and Angshuman Chattopadhyay\*

**Solid-phase synthesis of [1,2,4]triazolo[3,4-*a*]phthalazine and tetrazolo[5,1-*a*]phthalazine derivatives**

pp 3107–3110

Jong Yeon Hwang, Hyung-Sub Choi and Young-Dae Gong\*

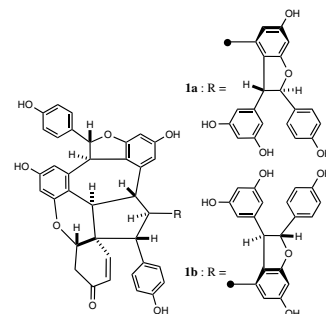


**Rotational isomerism of a resveratrol tetramer, shoreaketone, in *Shorea uliginosa***

pp 3111–3114

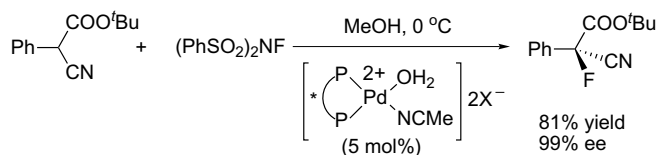
Tetsuro Ito,\* Miyuki Furusawa, Ibrahim Iliya, Toshiyuki Tanaka, Ken-ichi Nakaya, Ryuichi Sawa, Yumiko Kubota, Yoshikazu Takahashi, Soedarsono Riswan and Munekazu Iinuma

A new resveratrol tetramer, shoreaketone, was isolated from the stem bark of *Shorea uliginosa* (Dipterocarpaceae). The structure has a novel framework of heptacyclic ring system including an  $\alpha,\beta$ -unsaturated carbonyl group. In NMR spectra shoreaketone is observed as two different conformers due to rotational isomerism.

**Catalytic enantioselective fluorination of  $\alpha$ -cyano acetates catalyzed by chiral palladium complexes**

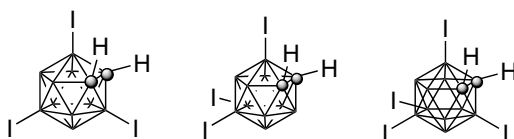
pp 3115–3117

Hye Ran Kim and Dae Young Kim\*

**Regioselective synthesis of triiodo-*o*-carboranes and tetraiodo-*o*-carborane**

pp 3119–3122

Hiroto Yamazaki, Kiminori Ohta and Yasuyuki Endo\*

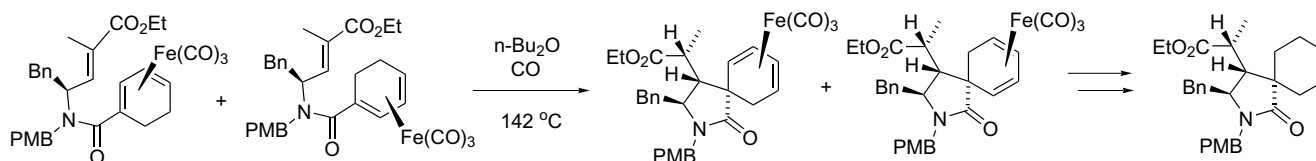


suitable building block for supramolecular construction

**Dynamic kinetic resolution during iron carbonyl promoted [6+2] ene-type reactions**

pp 3123–3126

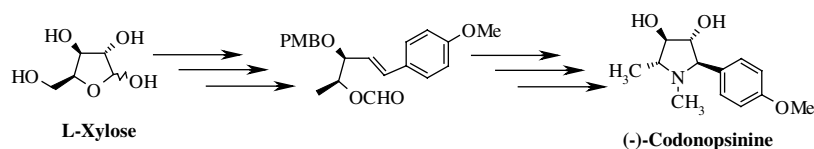
Anthony J. Pearson\* and Xiaolong Wang



**Total synthesis of the alkaloid (–)-codonopsinine from L-xylose**

pp 3127–3129

S. Chandrasekhar,\* V. Jagadeshwar and S. Jaya Prakash

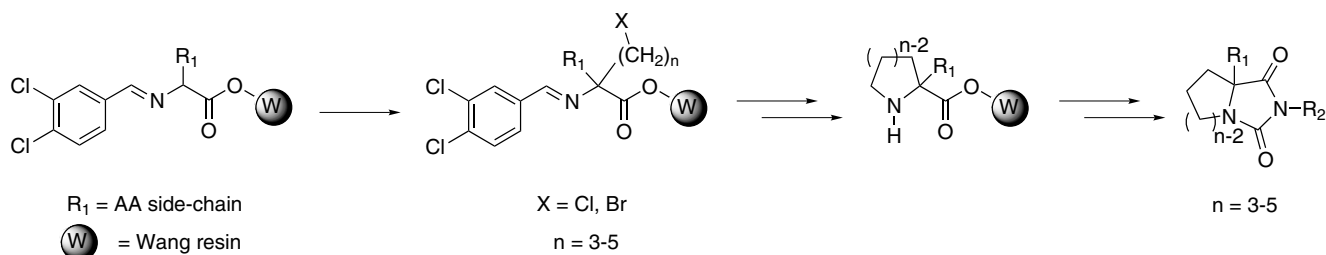


The total synthesis of (–)-codonopsinine is described from commercially available L-xylose in 20% overall yield. The key steps included Julia *trans* olefination and cascade epoxidation–cyclisation strategies.

**Solid-phase synthesis of  $\alpha$ -substituted proline hydantoin and analogs**

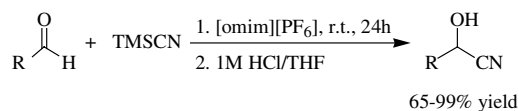
pp 3131–3135

Jordi Alsina, William L. Scott\* and Martin J. O'Donnell\*

**Ionic liquid [omim][PF<sub>6</sub>] as an efficient and recyclable reaction media for the cyanosilylation of aldehydes without Lewis acid or any special activation**

pp 3137–3139

Zhi-Liang Shen, Shun-Jun Ji\* and Teck-Peng Loh\*



Ionic liquid [omim][PF<sub>6</sub>] has been demonstrated as an efficient, environmentally friendly and recyclable reaction media as well as a promoter for the cyanosilylation of aldehydes under mild conditions. The recovered ionic liquid could be reused for subsequent runs with only a gradual decrease in activity.

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\*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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