

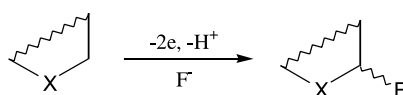
Contents

REPORT

Electrolytic fluorination of organic compounds

Kamal M. Dawood

pp 1435–1451



X = O, N, S, Se

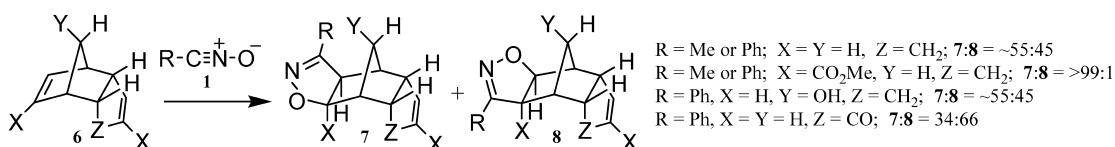
Regio- and stereoselective electrolytic fluorination of various classes of organic compounds have been reviewed. The report contains 140 references.

ARTICLES

Selectivities in the 1,3-dipolar cycloaddition of nitrile oxides to dicyclopentadiene and its derivatives

Irishi N. N. Namboothiri,\* Namrata Rastogi, Bishwajit Ganguly,\* Shaikh M. Mobin and Miriam Cojocar

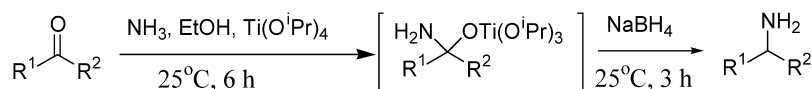
pp 1453–1462



Chemoselective reductive alkylation of ammonia with carbonyl compounds: synthesis of primary and symmetrical secondary amines

Bruhaspathy Miriyala, Sukanta Bhattacharyya\* and John S. Williamson

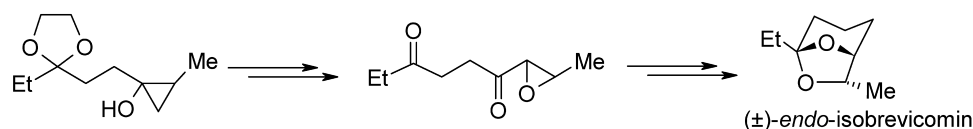
pp 1463–1471



**A convenient route to 1-(2-oxiranyl)-1,4-diketones and their application to the synthesis of *endo*-brevicomin, *endo*-isobrevicomin, frontalin and related compounds via alkylated 6,8-dioxabicyclo[3.2.1]octan-2-ones**

pp 1473–1479

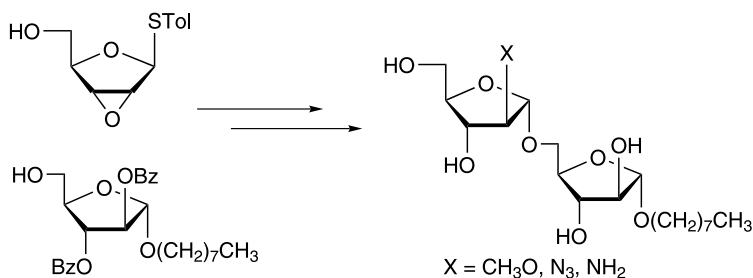
Vladimir I. Tyvorskii,\* Dmitry A. Astashko and Oleg G. Kulinkovich



**2,3-Anhydrosugars in glycoside bond synthesis. Application to the preparation of C-2 functionalized  $\alpha$ -D-arabinofuranosides**

pp 1481–1489

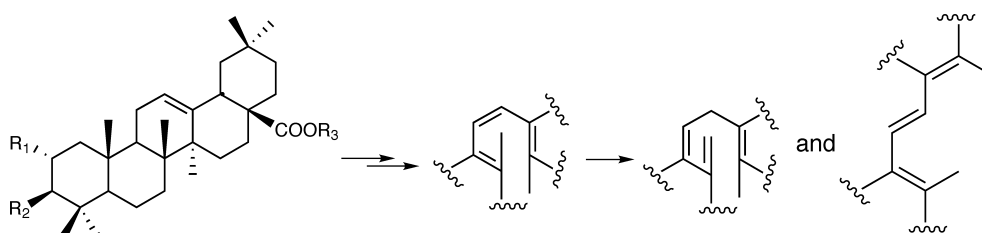
Oana M. Cociorva and Todd L. Lowary\*



**Partial synthesis of C-ring derivatives from oleanolic and maslinic acids. Formation of several triene systems by chemical and photochemical isomerization processes**

pp 1491–1503

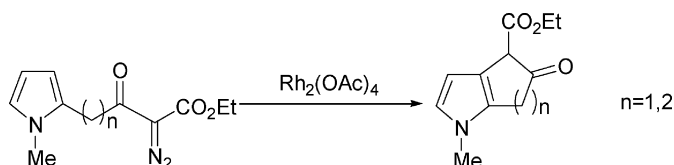
Andrés García-Granados, Pilar E. López, Enrique Melguizo, Andrés Parra\* and Yolanda Simeó



**Rhodium(II) catalyzed intramolecular insertion of carbenoids derived from 2-pyrrolyl and 3-indolyl  $\alpha$ -diazo- $\beta$ -ketoesters and  $\alpha$ -diazoketones**

pp 1505–1511

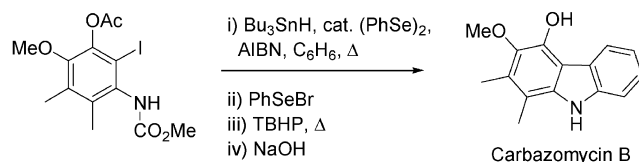
Erick Cuevas-Yañez,\* Joseph M. Muchowski and Raymundo Cruz-Almanza



**Synthesis of carbazomycin B by radical arylation of benzene**

pp 1513–1516

David Crich\* and Sochanchingwung Rumthao

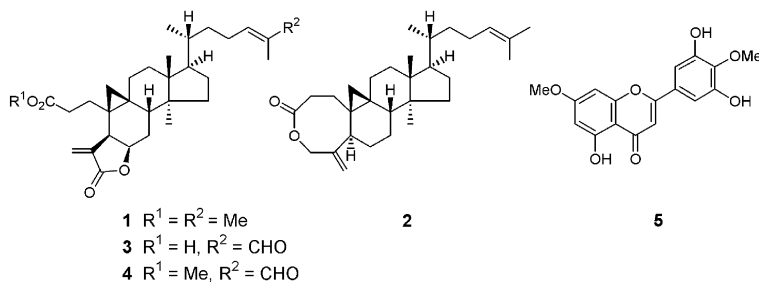
**Cytotoxic and anti-HIV-1 constituents from leaves and twigs of *Gardenia tubifera***

pp 1517–1523

Vichai Reutrakul,\* Chongkon Krachangchaeng, Patoomratana Tuchinda,\* Manat Pohmakotr,

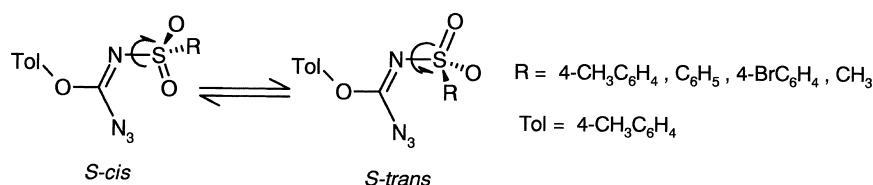
Thaworn Jaipetch, Chalobon Yoosook, Jittra Kasisit, Samaisukh Sophasan, Kulawee Sujarit and Thawatchai Santisuk

Two new natural cycloartanes **1** and **2**, together with the known **3** and **4** have been isolated from leaves and twigs of *Gardenia tubifera*. In addition, a new flavone **5**, five known flavones and hexacosyl 4'-hydroxy-*trans*-cinnamate were also obtained from the same source. All isolated constituents were evaluated for cytotoxic and anti-HIV-1 activities.

**Dynamic  $^1\text{H}$  NMR study of 4-methylphenoxyimidoyl azides: conformational or configurational isomerisation?**

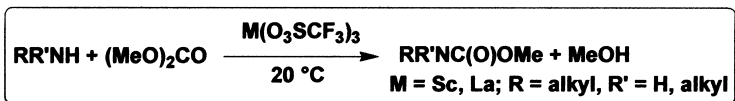
pp 1525–1530

Ali Reza Modarresi-Alam,\* Hossein Keykha, Ferydoon Khamooshi and Hossein A. Dabbagh

**Group 3 metal (Sc, La) triflates as catalysts for the carbomethoxylation of aliphatic amines with dimethylcarbonate under mild conditions**

pp 1531–1539

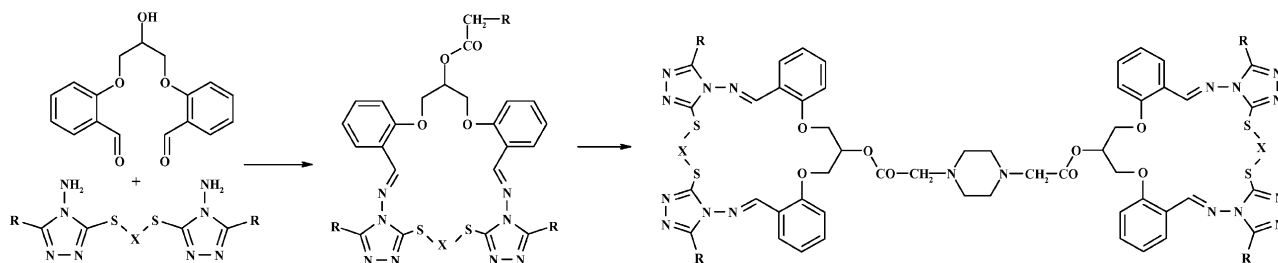
Monica Distaso and Eugenio Quaranta\*



**Synthesis of novel lariat azathia crown macrocycles containing two triazole rings and bis crown macrocycles containing four triazole rings**

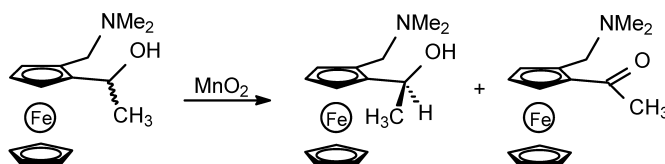
pp 1541–1548

Ashraf A. Abbas


**About diastereoselective oxidations of ferrocenyl amino alcohols**

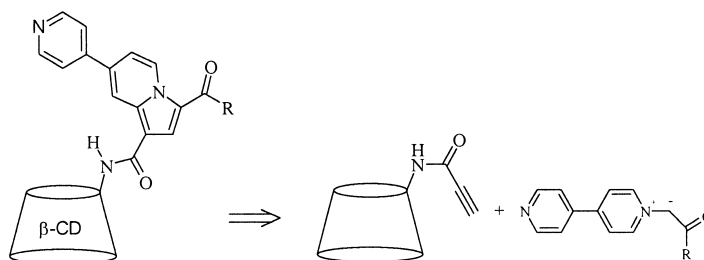
pp 1549–1556

Olivier Delacroix, Bakolinirina Andriamihaja, Sophie Picart-Goetgheluck\* and Jacques Brocard\*


**1,3-Dipolar cycloaddition reaction of bipyridinium ylides with the propynamido- $\beta$ -cyclodextrin. A regiospecific synthesis of a new class of fluorescent  $\beta$ -cyclodextrins**

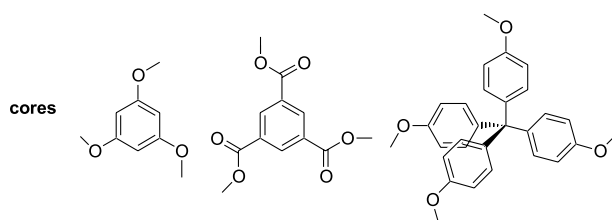
pp 1557–1562

François Delattre, Patrice Woisel,\* Gheorghe Surpateanu, Marc Bria, Francine Cazier and Patrick Decock


**Synthesis of periphery-functionalized dendritic polyethers**

pp 1563–1569

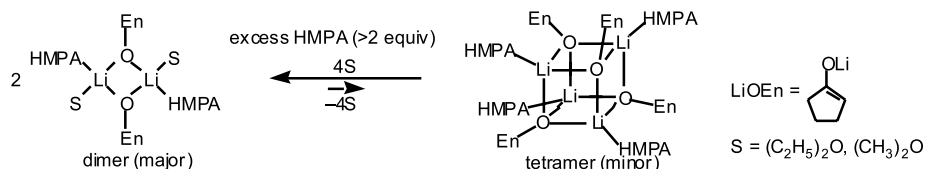
Enrique Díez-Barra,\* Raquel González, Prado Sánchez-Verdú and Juan Tolosa



**$^7\text{Li}$ - and  $^{31}\text{P}$  NMR spectra of cyclopentanone lithium enolate in ethereal solvents: identification of the HMPA-coordinated aggregate structures**

pp 1571–1579

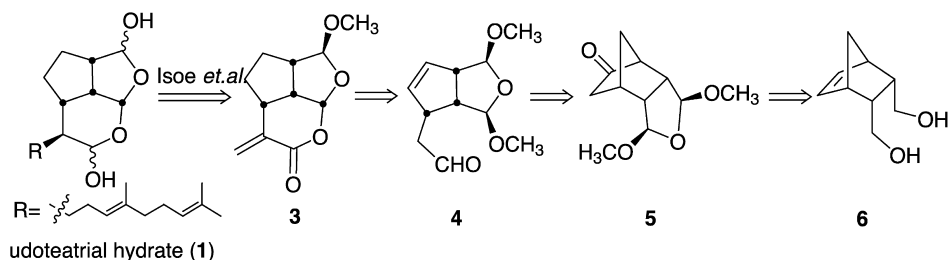
Masaaki Suzuki,\* Hiroko Koyama and Ryoji Noyori\*



**Formal synthesis of ( $\pm$ )-udoteatrial hydrate**

pp 1581–1585

Meng-Yang Chang,\* Ching-Han Lin and Nein-Chen Chang\*

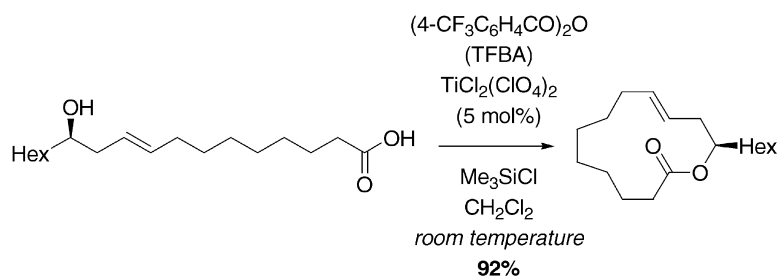


The formal synthesis of antimicrobial diterpene udoteatrial hydrate (1) is described in nine steps. Diol **6** used as starting material. The key intermediate **4** was obtained from bicyclic ketone **5** via the key Norrish type I reaction.

**An effective method for the synthesis of carboxylic esters and lactones using substituted benzoic anhydrides with Lewis acid catalysts**

pp 1587–1599

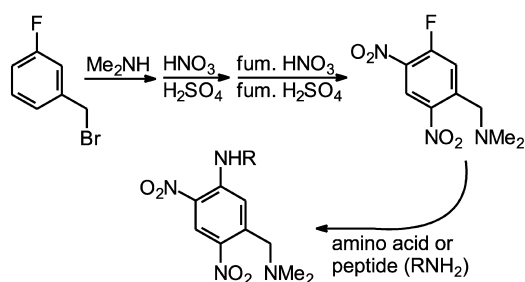
Isamu Shiina



**Synthesis of *N,N*-dimethyl-2,4-dinitro-5-fluorobenzylamine and its reactions with amino acids and peptides**

pp 1601–1610

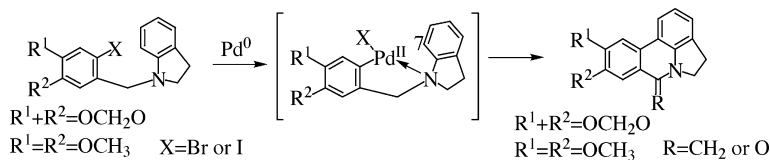
Zhongfa Liu and Lawrence M. Sayre\*



**Concise synthesis of pyrrolophenanthridine alkaloids using a Pd-mediated biaryl coupling reaction with regioselective C–H activation via the intramolecular coordination of the amine to Pd**

pp 1611–1616

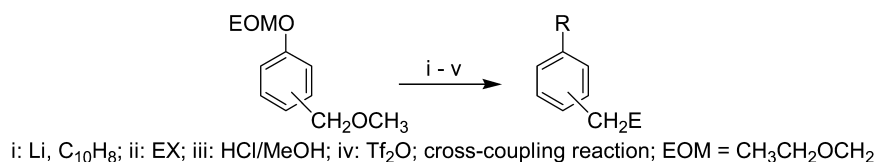
Takashi Harayama,\* Akihiro Hori, Hitoshi Abe and Yasuo Takeuchi



**Reductive lithiation of alkoxy-substituted benzyl methyl ethers and connection with cross-coupling reactions**

pp 1617–1623

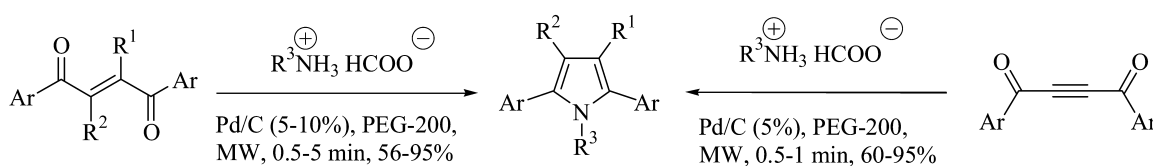
Ugo Azzena,\* Giovanna Dettori, Roberta Pireddu and Luisa Pisano



**Microwave mediated facile one-pot synthesis of polyarylpyrroles from but-2-ene- and but-2-yne-1,4-diones**

pp 1625–1630

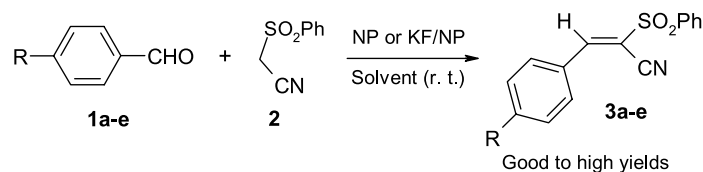
H. Surya Prakash Rao,\* S. Jothilingam and Hans W. Scheeren



**Solid catalysts for the production of fine chemicals: the use of natural phosphate alone and doped base catalysts for the synthesis of unsaturated arylsulfones**

pp 1631–1635

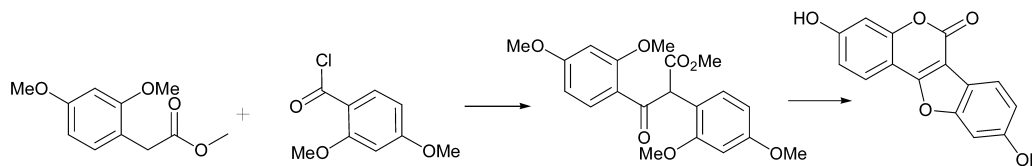
Mohamed Zahouily,\* Mohamed Salah, Bouchaib Bahlaouane, Ahmed Rayadh, Abdelaziz Houmam, Emad A. Hamed and Saïd Sebti



**A new short synthesis of coumestrol and its application for the synthesis of [6,6a,11a-<sup>13</sup>C<sub>3</sub>]coumestrol**

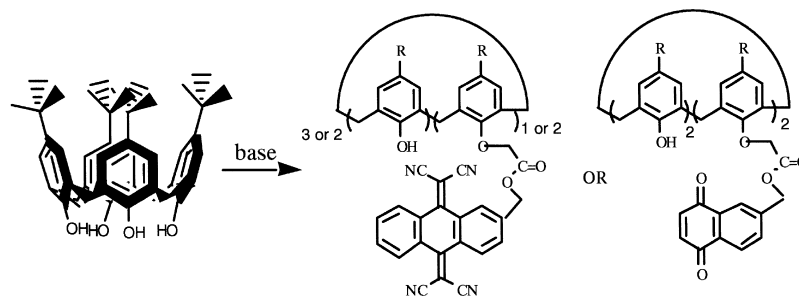
pp 1637–1642

Nawaf Al-Maharik and Nigel P. Botting\*


**Synthesis, electrochemical and intramolecular charge-transfer properties of ‘calix[4]arene-acceptor’ diad and triad derivatives**

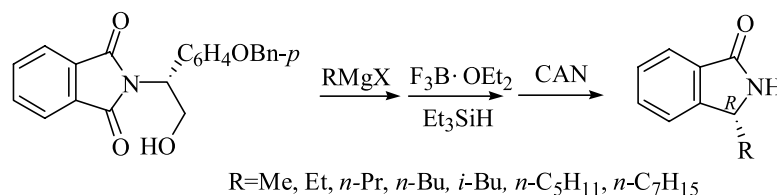
pp 1643–1650

Cheng-Chu Zeng and James Y. Becker\*


**A versatile approach for the asymmetric synthesis of 3-alkyl-2,3-dihydro-1*H*-isoindolin-1-ones**

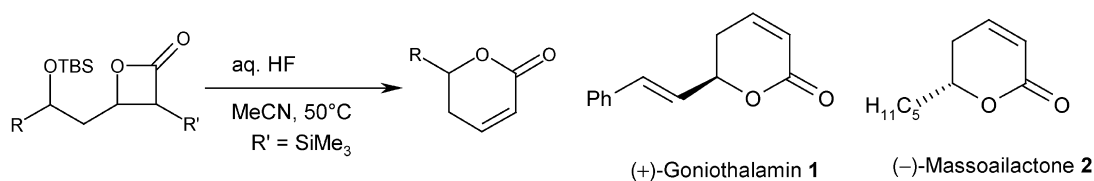
pp 1651–1657

Ming-De Chen, Xiang Zhou, Ming-Zhu He, Yuan-Ping Ruan and Pei-Qiang Huang\*


**The β-lactone route to α,β-unsaturated δ-lactones. Total syntheses of (±)-goniothalamine and (–)-massoailactone**

pp 1659–1663

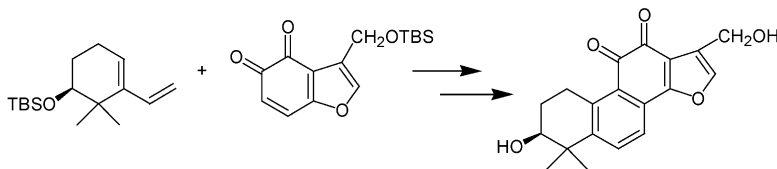
Lycia Fournier, Philip Kocienski and Jean-Marc Pons\*



**Asymmetric synthesis of 3(S),17-dihydroytanshinone**

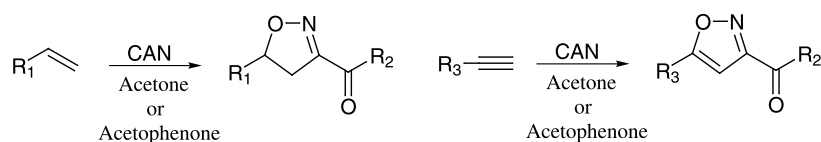
Jiangang Zhang, Wenhui Duan\* and Junchao Cai

pp 1665–1669

**Formation of isoxazole derivatives via nitrile oxide using ammonium cerium nitrate****(CAN): a novel one-pot synthesis of 3-acetyl- and 3-benzoylisoxazole derivatives**

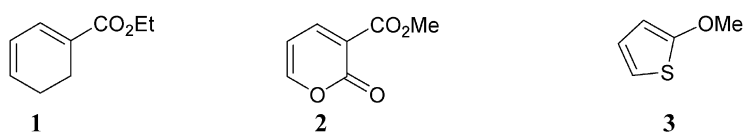
Ken-ichi Itoh and C. Akira Horiuchi\*

pp 1671–1681

**Improvements in Diels–Alder cycloadditions with some acetylenic compounds under solvent-free microwave-assisted conditions: experimental results and theoretical approaches**

André Loupy,\* François Maurel and Andrea Sabatié-Gogová

pp 1683–1691



Irreversible Diels–Alder cycloaddition of **1–3** with acetylenic compound were carried out under micro-wave activation with important specific effect for **2** and **3**.



**OTHER CONTENTS**

**Contributors to this issue**  
**Instructions to contributors**

**p I**  
**pp III–VI**

\*Corresponding author



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

---

**CONTENTS**  
**direct**

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>

---

Indexed/Abstracted in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch



ELSEVIER

ISSN 0040-4020