

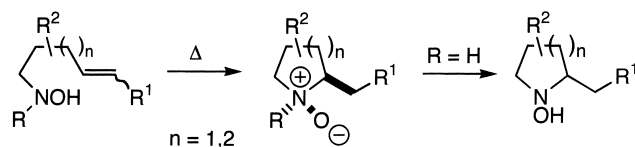
Contents

REPORT

**The reverse Cope cyclisation: a classical reaction goes backwards**

pp 243–269

Nicholas J. Cooper and David W. Knight\*



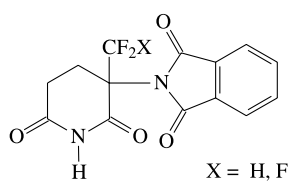
This report aims to summarize the salient features of the reverse Cope cyclisation, a useful method for the elaboration of pyrrolidines and, to a lesser extent piperidines, by pericyclic cyclisations of unsaturated hydroxylamines.

ARTICLES

**3-Trifluoromethyl- and 3-difluoromethyl-thalidomides**

pp 271–274

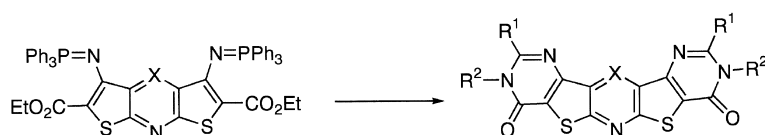
Sergej N. Osipov, Pavel Tsouker, Lothar Hennig and Klaus Burger\*



**Synthesis of pyrido and pyrazinodithienodipyrimidine-4,8(3*H*,9*H*)-dione derivatives by the aza-Wittig methodology**

pp 275–283

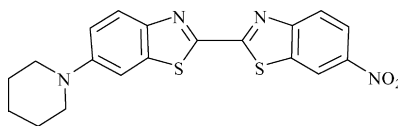
David Vázquez Vilarelle, Carlos Peinador Veira and José M. Quintela López\*



**Synthesis and non-linear optical and redox properties of 6-nitro-6'-piperidyl-2,2'-bisbenzothiazole: a new type of push–pull molecules**

pp 285–289

Francisco López-Calahorra,\* Mariano Martínez-Rubio, Dolores Velasco, Enric Brillas and Lluís Julià

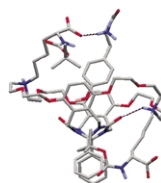


The synthesis, NLO, voltammetric and EPR behaviour of the first example of a new type of push–pull molecules based in the 2,2'-bisbenzothiazole is described.

**Enantioselective binding of amino acids and amino alcohols by self-assembled chiral basket-shaped receptors**

pp 291–300

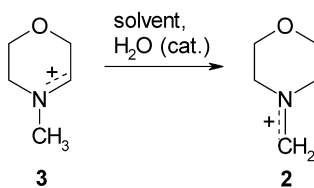
Beatriu Escuder,\* Alan E. Rowan, Martinus C. Feiters\* and Roeland J. M. Nolte



**Studies on the carbenium-iminium ions derived from *N*-methylmorpholine-*N*-oxide (NMMO)**

pp 301–306

Thomas Rosenau,\* Antje Potthast and Paul Kosma

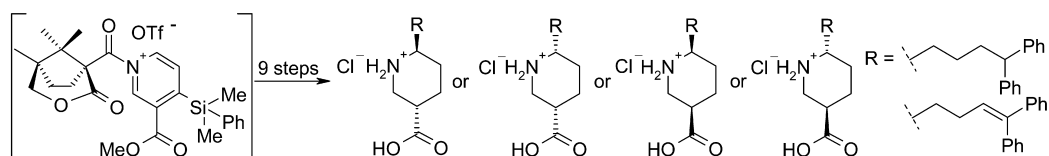


Heterolytic degradation of NMMO lead to the two carbenium-iminium ions **2** and **3**. In the presence of catalytic amounts of water **3** was rearranged into **2**—the first example of a Mannich intermediate interconversion. The reaction mechanism was clarified by trapping reactions, isotopic labeling, kinetic studies and DFT computations.

**First asymmetric syntheses of 6-substituted nipecotic acid derivatives**

pp 307–318

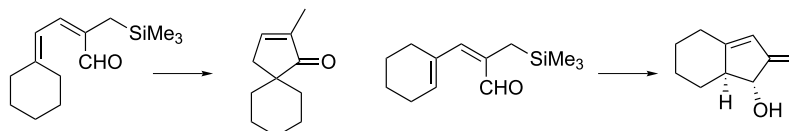
Cornelia E. Hoesl, G. Höfner and Klaus T. Wanner\*



**Synthesis of spiro[4.5]decane and bicyclo[4.3.0]nonane ring systems by self-cyclization of (Z)- and (E)-2-(trimethylsilylmethyl)pentadienal derivative**

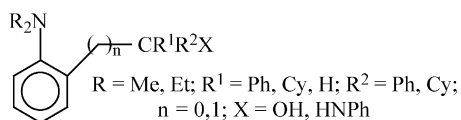
pp 319–331

Chiaki Kuroda,\* Shigenobu Honda, Yuki Nagura, Hiroyuki Koshio, Taku Shibue and Tokio Takeshita

**Synthesis and molecular structures of (2-dialkylaminophenyl)alcohols and of 2-phenylaminoalkyl-dimethylaminobenzene derivatives**

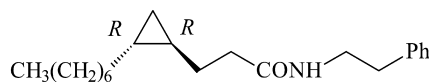
pp 333–339

Harbi Tomah Al-Masri, Joachim Sieler, Peter Lönnecke, Steffen Blaurock, Konstantin Domasevitch and Evamarie Hey-Hawkins\*

**The absolute stereochemistry of grenadamide**

pp 341–345

Juma'a R. Al Dulayymi, Mark S. Baird\* and Keith Jones

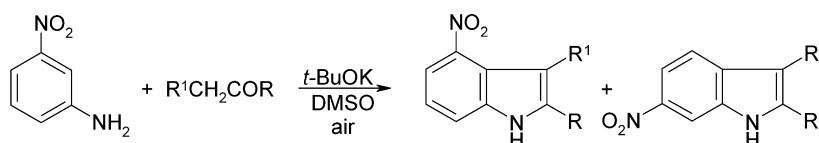


3-(2*S*-Heptylcycloprop-1*S*-yl)propanoic acid 2-phenylethanamide was synthesised from *cis*-cyclopropan-1,2-dimethanol dibutyrate via enzymatic desymmetrisation; it gave identical nmr data to those reported for grenadamide but had an equal and opposite absolute rotation, indicating that the latter is the 2*R*,1*R*-enantiomer shown.

**Synthesis of 4- and 6-substituted nitroindoles**

pp 347–358

Nikolai Moskalev, Michał Barbasiewicz and Mieczysław Mąkosza\*



**Palladium-catalyzed aryl-amidation. Synthesis of non-racemic *N*-aryl lactams**

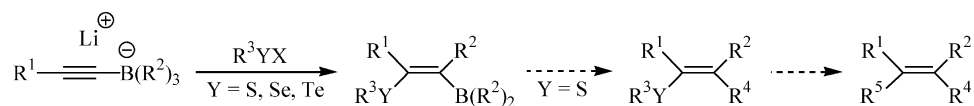
pp 359–365

R. Greg Browning, Vivek Badarinarayana, Hossen Mahmud and Carl J. Lovely\*

**Transformation of  $\beta$ -chalcogeno alkenylboranes into tetrasubstituted olefins**

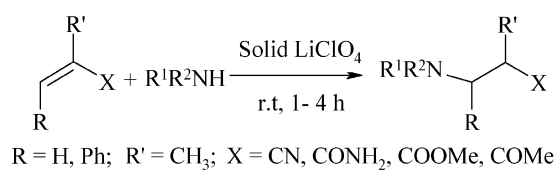
pp 367–381

Julien Gerard and László Hevesi\*

**LiClO<sub>4</sub> Accelerated Michael addition of amines to  $\alpha,\beta$ -unsaturated olefins under solvent-free conditions**

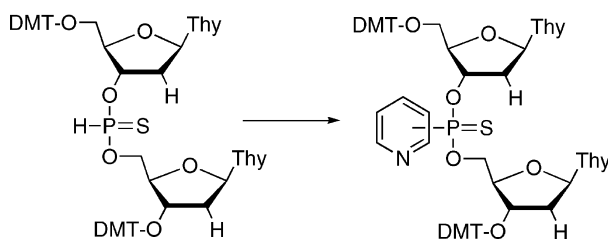
pp 383–387

Najmedin Azizi and Mohammad R. Saidi\*

**Nucleoside H-phosphonates. Part 19: Efficient entry to novel nucleotide analogues with 2-pyridyl- and 4-pyridylphosphonothioate internucleotide linkages**

pp 389–395

Tommy Johansson and Jacek Stawinski\*

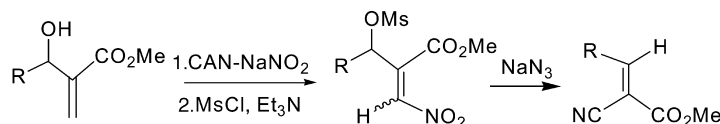


Efficient protocols for the preparation of dinucleoside 2-pyridyl- and 4-pyridylphosphonothioates were developed.

**NaNO<sub>2</sub>–Ceric ammonium nitrate mediated conversion of acrylic esters and Baylis–Hillman derived acrylic esters into corresponding β-nitro acrylic esters**

pp 397–403

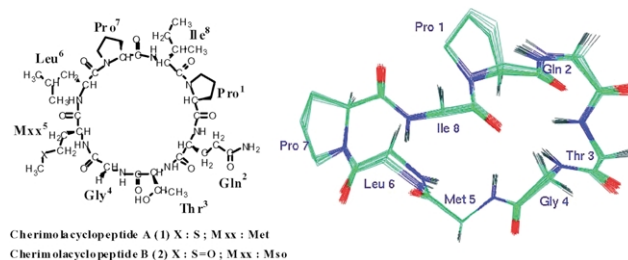
K. Jayakanthan, K. P. Madhusudanan and Yashwant D. Vankar\*



**Sequence and solution structure of cherimolacyclopeptides A and B, novel cyclooctapeptides from the seeds of *Annona cherimola***

pp 405–414

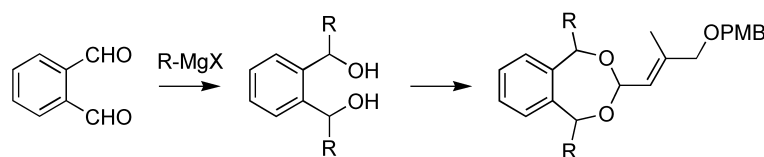
Alassane Wélé, Céline Landon, Henri Labbé, Françoise Vovelle, Yanjun Zhang and Bernard Bodo\*



**Synthesis of α,β-unsaturated dioxanes, dioxolanes and dioxepanes by *trans*-acetalisation of dimethylacetals with *meso* or C<sub>2</sub>-symmetrical 1,2-, 1,3- and 1,4-diols**

pp 415–427

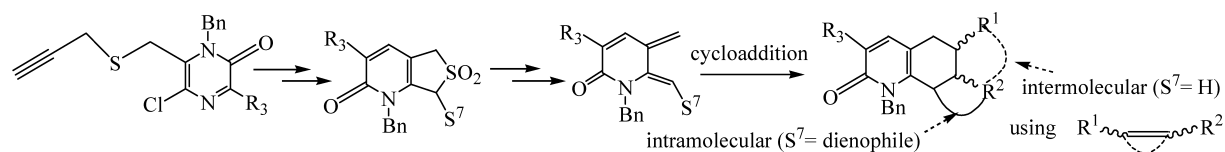
Loïc Lemiègre, Fleur Lesetre, Jean-Claude Combret and Jacques Maddaluno\*



**Generation of 5,6-dimethylene-2(1*H*)-pyridinones from [3,4-*b*] sulfolene pyridinones and application in Diels–Alder reactions**

pp 429–439

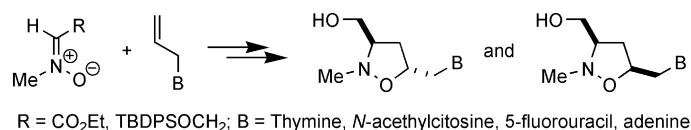
Tom C. Govaerts, Ilse A. Vogels, Frans Compennolle and Georges J. Hoornaert\*



**Diastereoselective synthesis of homo-*N,O*-nucleosides**

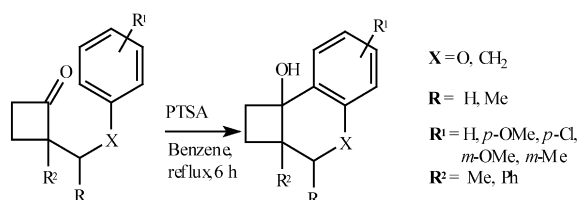
pp 441–448

Ugo Chiacchio,\* Filippo Genovese, Daniela Iannazzo, Vito Librando, Pedro Merino,\* Antonio Rescifina, Roberto Romeo, Antonio Procopio and Giovanni Romeo\*

**Use of cyclobutyl derivatives as intermediates in the synthesis of 1,2a,3,8b-tetrahydro-2*H*-cyclobuta[*c*]chromenes**

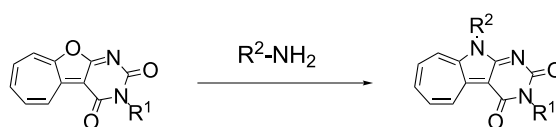
pp 449–457

Angela M. Bernard, Costantino Floris, Angelo Frongia, Pier P. Piras\* and Francesco Secci

**Alternative synthesis and novel oxidizing ability of 6,9-disubstituted cyclohepta[*b*]pyrimido[5,4-*d*]pyrrole-8(6*H*),10(9*H*)-dione derivatives**

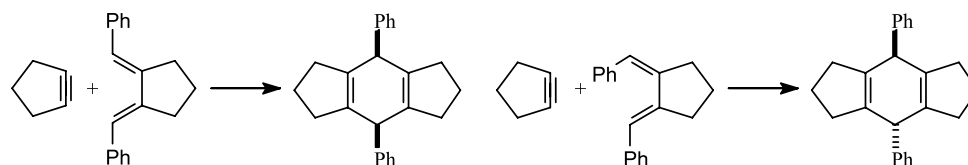
pp 459–467

Shin-ichi Naya, Yusuke Iida and Makoto Nitta\*

**Stereochemistry of the [2+4] cycloaddition of cyclopentyne**

pp 469–474

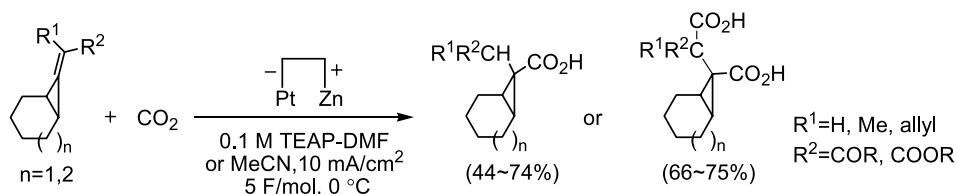
John C. Gilbert\* and Duen-Ren Hou



**Electrochemical carboxylation of bicyclo[*n*.1.0]alkylidene derivatives**

pp 475–481

Morshed Alam Chowdhury, Hisanori Senboku and Masao Tokuda\*

**OTHER CONTENTS**

Contributors to this issue  
 Instructions to contributors

I  
 III–VI

\*Corresponding author

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**CONTENTS**  
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