



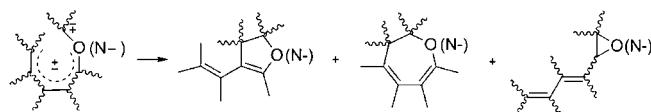
Tetrahedron Vol. 66, Issue 32, 2010

Contents

REPORT

- Electrocyclization reactions of vinyl, styryl, and butadienyl conjugated carbonyl/azomethine ylides**
Olcay Anaç*, Füsun Şeyma Güngör

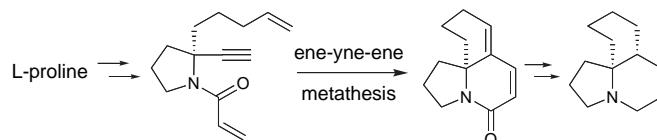
pp 5931–5953

**i**⁺

ARTICLES

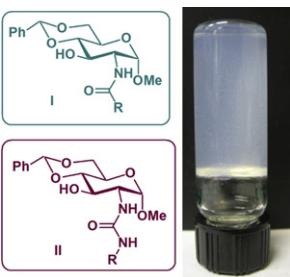
- A Concise, metathesis based approach to construction of the lepadiformine/cylindricine tricyclic framework**
Jiwen Zou, Dae Won Cho, Patrick S. Mariano*

pp 5955–5961

**i**⁺

Synthesis and characterization of D-glucosamine-derived low molecular weight gelators
Navneet Goyal, Sherwin Cheuk, Guijun Wang*

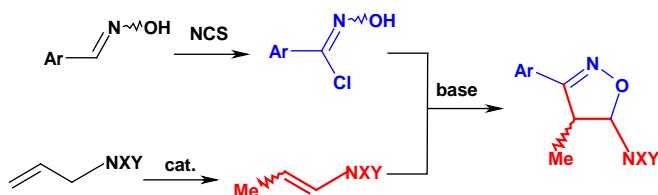
pp 5962–5971



Synthesis of 5-aminoisoxazolines from N-allyl compounds and nitrile oxides via tandem isomerization-1,3-dipolar cycloaddition

pp 5972–5981

Piotr Bujak*, Stanisław Krompiec, Joanna Malarz, Michał Krompiec, Michał Filapek, Witold Danikiewicz, Magdalena Kania, Katarzyna Gębarowska, Iwona Grudzka



XYN=Me₂N, H₂NCONH, PhC(Me)=N, 4-MeOC₆H₄CH=N and others; Ar=2,6-Cl₂C₆H₃; cat.=Ru or Rh complexes, 18-Crown-6/KOH or Verkade's superbase; base=Et₃N or superbase.

Synthesis of isomeric fluoronitrobenzene-sulfonyl chlorides

pp 5982–5986

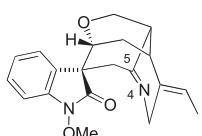
Sergey Zhersh, Oleg Lukin*, Vitaly Matvienko, Andrey Tolmachev



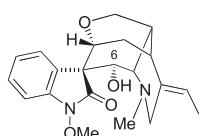
New oxindole and indole alkaloids from *Gelsemium rankinii*

pp 5987–5992

Mariko Kitajima, Hiromi Kobayashi, Noriyuki Kogure, Hiromitsu Takayama*



4,5-Dehydrorankinidine (1)

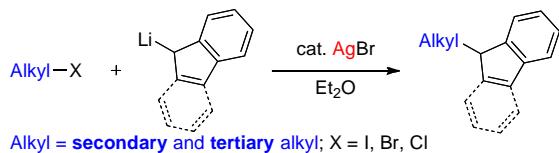


6-Hydroxyhumantinenine (5)

Silver-catalyzed coupling reactions of alkyl halides with indenyllithiums

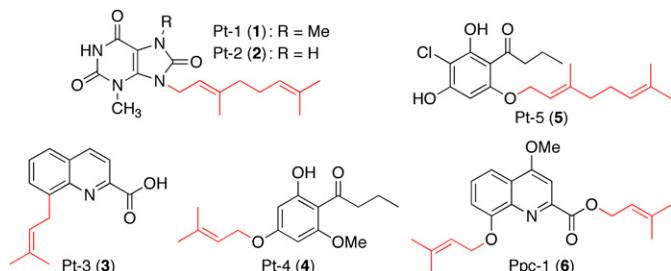
Hidenori Someya, Hideki Yorimitsu*, Koichiro Oshima*

pp 5993–5999

**Novel prenylated and geranylated aromatic compounds isolated from *Polysphondylium* cellular slime molds**

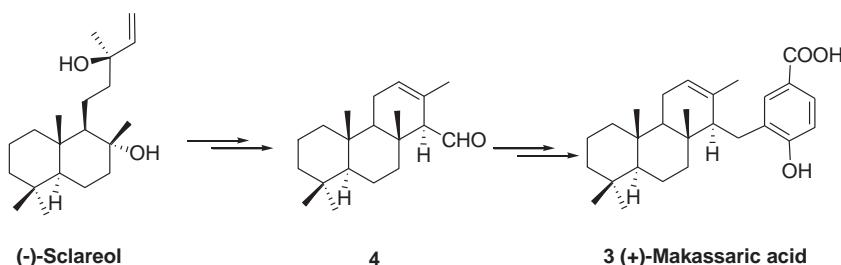
Haruhisa Kikuchi*, Shinya Ishiko, Koji Nakamura, Yuzuru Kubohara, Yoshiteru Oshima*

pp 6000–6007

**Synthesis of (+)-makassaric acid, a protein kinase MK2 inhibitor**

P. Basabe*, M. Martín, O. Bodero, A. Blanco, I.S. Marcos, D. Díez, J.G. Urones

pp 6008–6012

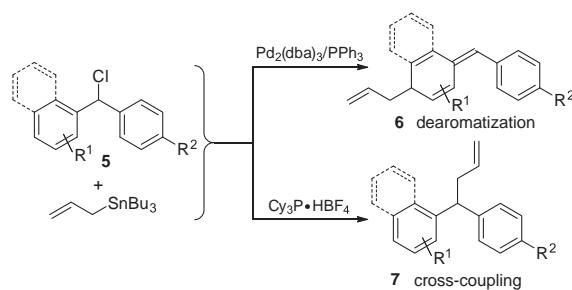


(+)-Makassaric acid has been synthesized from (-)-sclareol, through a Barton/McCombie reaction.

Regioselective control using a catalyst switch in the reaction of diarylmethyl chlorides with allyltributylstannane

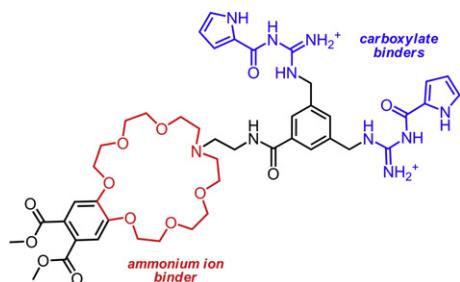
Bo Peng, Xiujuan Feng*, Xin Zhang, Liyun Ji, Ming Bao*

pp 6013–6018



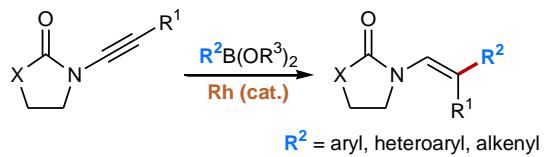
Binding of a hemoregulatory tetrapeptide by a bis-guanidinium crown ether
Andreas Späth, Burkhard König*

pp 6019–6025



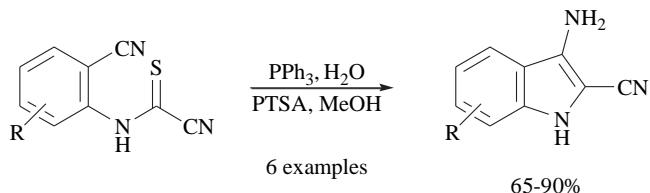
Rhodium-catalyzed carbometalation of ynamides with organoboron reagents
Benoit Gourdet, Donna L. Smith, Hon Wai Lam*

pp 6026–6031



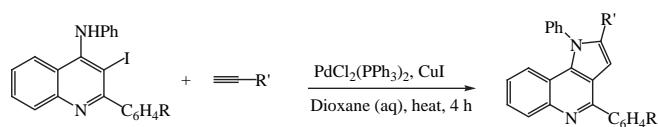
The conversion of 2-cyano cyanothioformanilides into 3-aminoindole-2-carbonitriles using triphenylphosphine
Panayiotis A. Koutentis*, Sophia S. Michaelidou

pp 6032–6039



Synthesis of 1*H*-pyrrolo[3,2-*c*]quinoline derivatives via palladium-catalyzed heteroannulation of 2-aryl-3-iodo-4-(phenylamino)quinolines and 4-(*N,N*-allylphenylamino)-2-aryl-3-iodoquinolines
Malose J. Mphahlele*, Lehlohonolo G. Lesenyeho, Hlamulo R. Makelane

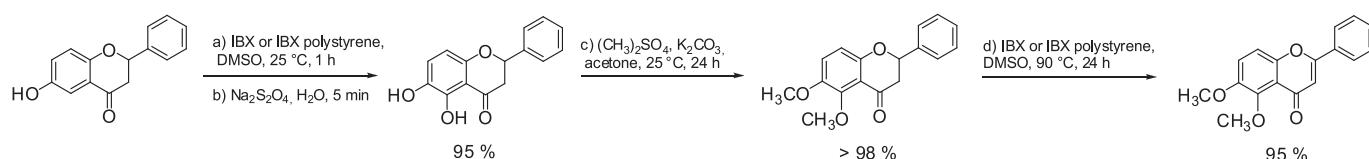
pp 6040–6046



Selective and efficient oxidative modifications of flavonoids with 2-iodoxybenzoic acid (IBX)

Maurizio Barontini, Roberta Bernini*, Fernanda Crisante, Giancarlo Fabrizi

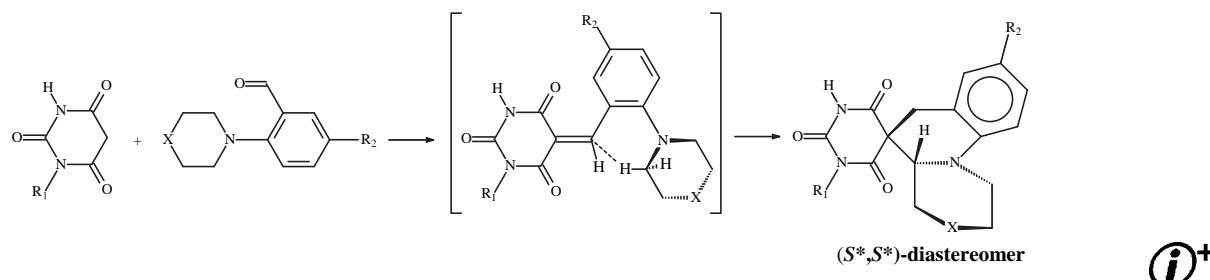
pp 6047–6053



Diastereoselective synthesis of 1-alkyl-2,4,6-trioxoperhydropyrimidine-5-spiro-3'-(1',2',3',4'-tetrahydroquinolines)

Biasedoselective synthesis of Poly(2,4,6-trioxoperylene)

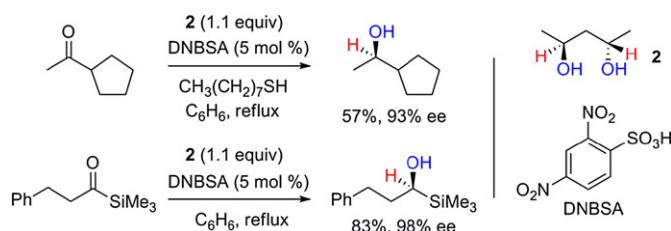
pp 6054–6061



Asymmetric reduction of aliphatic ketones and acyl silanes using chiral *anti*-pentane-2,4-diol and a catalytic amount of 2,4-dinitrobenzenesulfonic acid

Jun-ichi Matsuo*, Yu Hattori, Mio Hashizume, Hiroyuki Ishibashi

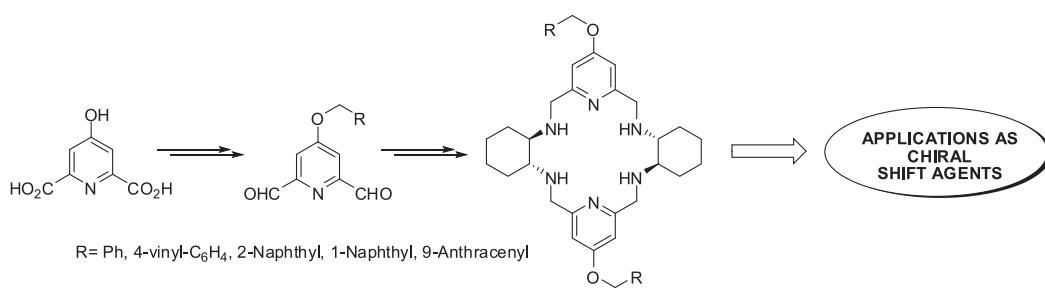
pp 6062–6069



Optically active macrocyclic hexaazapyridinophanes decorated at the periphery: synthesis and applications in the NMR enantiodiscrimination of carboxylic acids

Eduardo Bustó, Almudena González-Álvarez, Vicente Gotor-Fernández, Ignacio Alfonso*, Vicente Gotor*

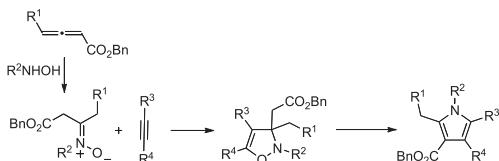
pp 6070–6077



4-Isoxazolines and pyrroles from allenoates

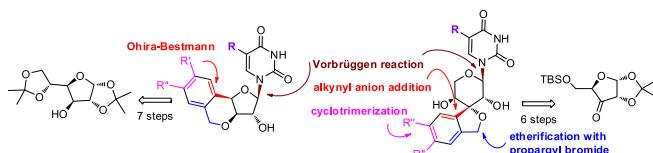
pp 6078–6084

Susana M.M. Lopes, Cláudio M. Nunes, Teresa M.V.D. Pinho e Melo*

**The isochroman- and 1,3-dihydroisobenzofuran-annulation on carbohydrate templates via [2+2+2]-cyclotrimerization and synthesis of some tricyclic nucleosides**

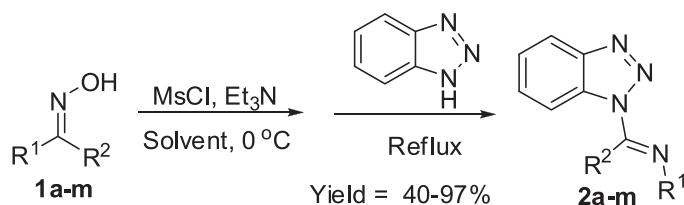
pp 6085–6096

Sharad B. Suryawanshi, Mangesh P. Dushing, Rajesh G. Gonnade, C.V. Ramana*

**The facile one-pot synthesis of N-imidoylbenzotriazoles via a Beckmann rearrangement of ketoximes**

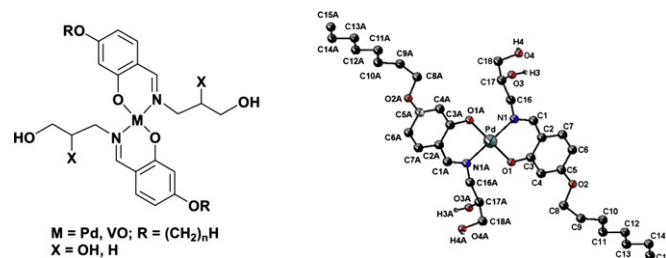
pp 6097–6100

Hong-Jun Pi, Li-Feng Liu, Shan-Shan Jiang, Wenting Du*, Wei-Ping Deng*

**H-Bonded metallomesogens derived from salicyladiminates**

pp 6101–6112

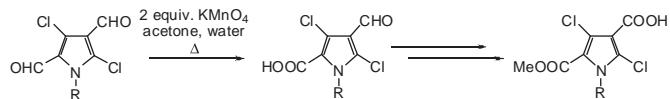
Sih-Yeh Li, Chun-Jung Chen, Po-Yuan Lo, Hwo-Shuenn Sheu, Gene-Hsiang Lee, Chung K. Lai*



Chemo- and regioselectivity in the reactions of polyfunctional pyrroles

pp 6113–6120

Gabriella Marth, Rosaleen J. Anderson, Barry G. Thompson, Mark Ashton, Paul W. Groundwater*

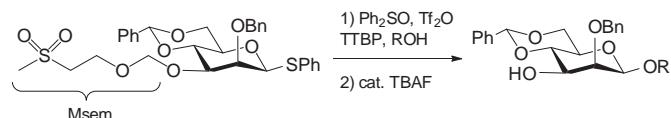


The chemo- and regioselectivity of the reactions of polyfunctional pyrroles, containing a variety of reactive centres is described. Regioselective reduction, oxidation or Wittig reactions give a range of pyrroles suitable for further synthetic transformations.

**The methylsulfonylethoxymethyl (Msem) as a hydroxyl protecting group in oligosaccharide synthesis**

pp 6121–6132

Asghar Ali, Richard J.B.H.N. van den Berg, Herman S. Overkleeft, Gijsbert A. van der Marel*, Jeroen D.C. Codée*

**On the scope of Pd-catalyzed carboamination reactions—synthesis of 2,4-disubstituted pyrrolidines and 2-substituted piperidines and morpholines**

pp 6133–6137

Tue Heesgaard Jepsen, Mogens Larsen*, Mogens Brøndsted Nielsen*

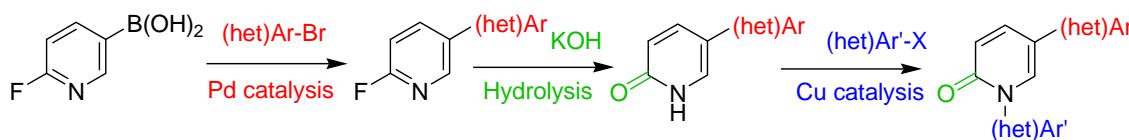


The scope of the palladium-catalyzed carboamination reaction for the synthesis of 2-substituted pyrrolidines, piperidines, and morpholines was investigated.

**Divergent synthesis of arylated pyridin-2(1*H*)-one derivatives via metal-catalysed cross-coupling processes**

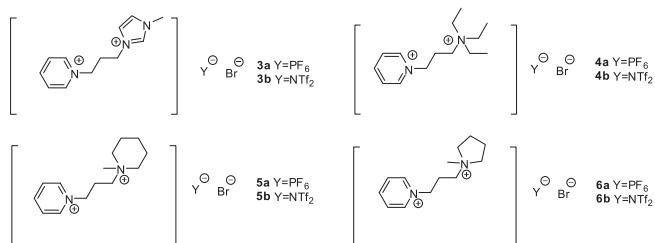
pp 6138–6149

Jamie S. Siddle, Andrei S. Batsanov, Stuart T. Caldwell, Graeme Cooke, Martin R. Bryce*



Synthesis and characterization of dicationic ionic liquids that contain both hydrophilic and hydrophobic anions
Jui-Cheng Chang, Wen-Yueh Ho*, I-Wen Sun*, Yung-Liang Tung, Meng-Chin Tsui, Tzi-Yi Wu, Shih-Shin Liang

pp 6150–6155



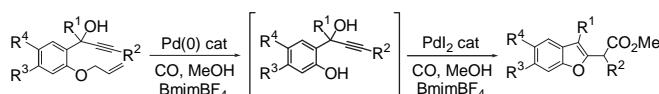
A series of new dicationic ionic liquids, in which each dication is associated with both a hydrophobic anion and a hydrophilic anion, are synthesized using a new synthesis protocol. The thermal properties and solubility in organic solvents of these ILs are characterized. The ionic liquids show interesting properties, which are different from those of dicationic ionic liquids, in which each dication is associated with two identical anions.



Tandem catalysis in ionic liquids: a recyclable catalytic synthesis of benzofuran derivatives

Bartolo Gabriele*, Raffaella Mancuso, Elvira Lupinacci, Giuseppe Salerno, Lucia Veltri

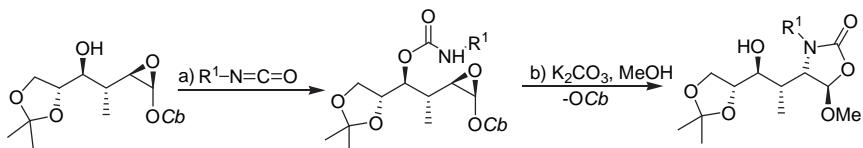
pp 6156–6161



Highly stereoselective De-Novo synthesis of protected 2-amino-3-C-methyl-2,3-dideoxy-D-altrose

Sabine Kollmann, Elisa Nauha, Dieter Hoppe*

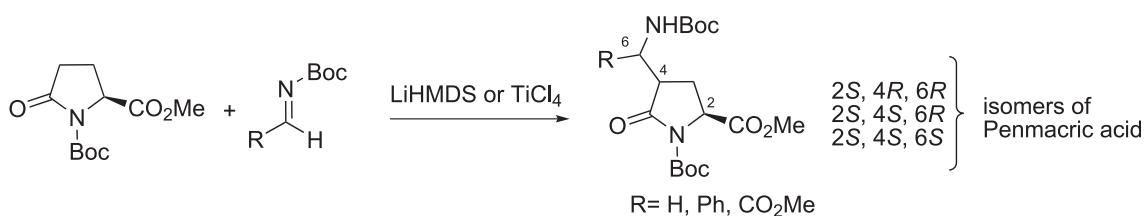
pp 6162–6166



A short formal synthesis of three epimers of penmacric acid

Dimpy Sikriwal, Ruchir Kant, Prakas R. Maulik, Dinesh K. Dikshit*

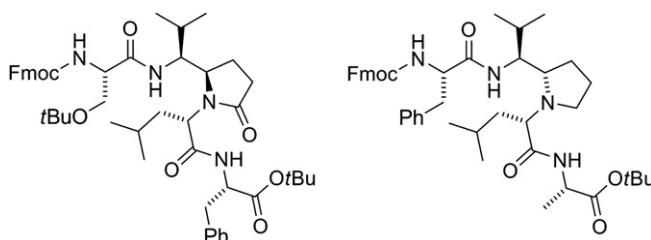
pp 6167–6173



γ -Lactam-containing peptidomimetics

Mickael Virlouvet, Joachim Podlech*

pp 6174–6180

**Highly stereoselective synthesis of *trans*-4-trifluoromethylsulfonyl-2,3-dihydrofurans from arsonium ylides and (*E*)- α -trifluoromethylsulfonyl- α,β -unsaturated ketones**

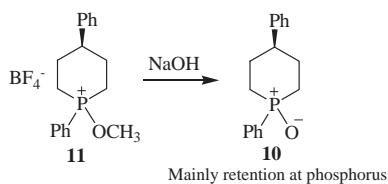
Zhenqi Chen, Jiaping Zhang, Jie Chen, Hongmei Deng, Min Shao, Hui Zhang*, Weiguo Cao*

pp 6181–6187

**Stereochemistry of base-induced cleavage of methoxide ion on *cis*- and *trans*-1,4-diphenylphosphorinanium salts. A different behavior with a phenyl substituent**

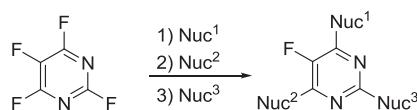
Susana López-Cortina, Araceli Medina-Arreguin, Eugenio Hernández-Fernández, Sylvain Bernès, Jorge Guerrero-Alvarez, Mario Ordoñez, Mario Fernández-Zertuche*

pp 6188–6194

**Trisubstituted pyrimidine derivatives from tetrafluoropyrimidine**

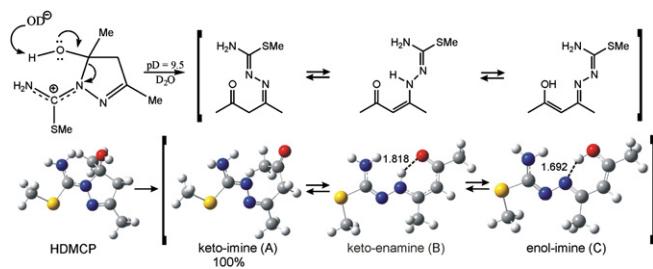
Emma L. Parks, Graham Sandford*, Dmitry S. Yufit, Judith A.K. Howard, John A. Christopher, David D. Miller

pp 6195–6204



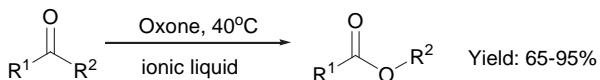
Theoretical study on structural and mechanistic aspects of synthesis of a 3-aminopyrazole derivative
 Svetlana Marković, Milan D. Joksović*, Petra Bombicz, Vukadin M. Leovac, Violeta Marković, Ljubinka Joksović

pp 6205–6211



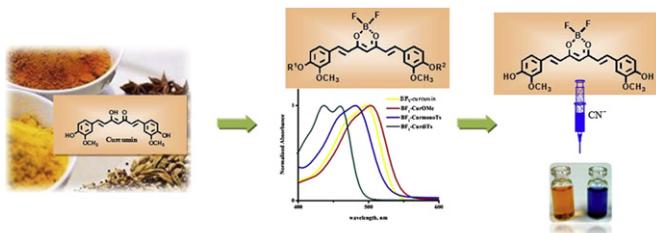
The Baeyer–Villiger oxidation of ketones with Oxone® in the presence of ionic liquids as solvents
 Anna Chrobok

pp 6212–6216



Synthesis, photophysical properties, and cyanide detection in aqueous solution of BF_2 -curcumin dyes
 Anusak Chaicham, Sirinan Kulchat, Gamolwan Tumcharern, Thawatchai Tuntulani, Boosayarat Tomapatanaget*

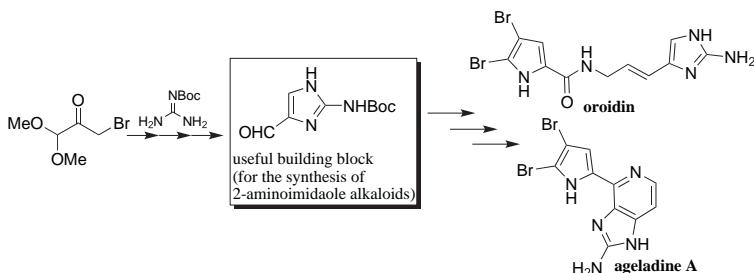
pp 6217–6223

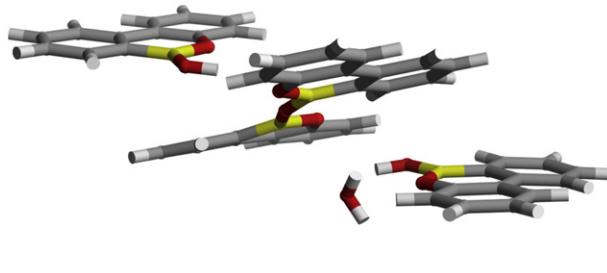


A novel synthesis of the 2-amino-1*H*-imidazol-4-carbaldehyde derivatives and its application to the efficient synthesis of 2-aminoimidazole alkaloids, oroidin, hymenidin, dispacamide, monobromodispacamide, and ageladine A

pp 6224–6237

Naoki Ando*, Shiro Terashima



Detecting solid-state reactivity in 10-hydroxy-10,9-boroxophenanthrene using NMR spectroscopy
Diego Carnevale, Vicente del Amo, Douglas Philp*, Sharon E. Ashbrook***pp 6238–6250****OTHER CONTENT****Corrigendum****p 6251**

*Corresponding author

(i)⁺ Supplementary data available via ScienceDirect**COVER**

In the presence of catalytic $[\text{Rh}(\text{cod})(\text{MeCN})_2]\text{BF}_4$, ynamides undergo carbometalation with boronic acids, arylboronic esters, and triarylboroxines. These reactions enable the regio- and stereocontrolled synthesis of multisubstituted enamides.

Details can be found in *Tetrahedron*, **2010**, 66, 6026–6031.

© 2010 Hon Wai Lam Published by Elsevier Ltd.



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical 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. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®



ISSN 0040-4020