

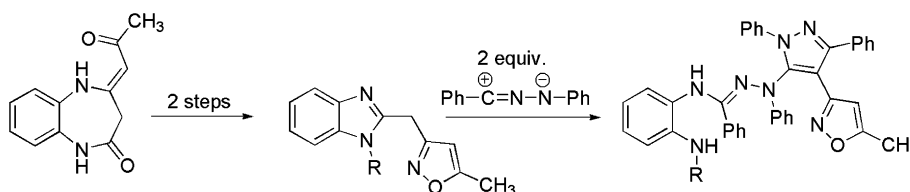
Contents

COMMUNICATIONS

Unexpected opening of benzimidazole derivatives during 1,3-dipolar cycloaddition

pp 8807–8810

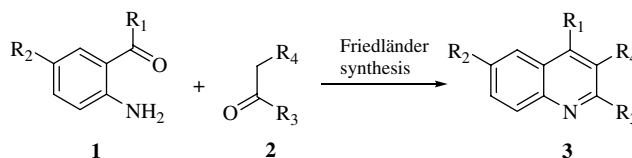
Brahim El Azaoui, Bouhfid Rachid, Mohamadou Lamine Doumbia, El Mokhtar Essassi,*
Heinz Gornitzka and Jacques Bellan



Microwave-assisted Friedländer synthesis of quinolines derivatives as potential antiparasitic agents

pp 8811–8815

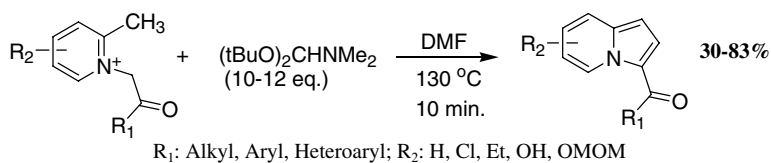
Gisela C. Muscia, Mariela Bollini, Juan P. Carnevale, Ana M. Bruno and Silvia E. Asís*



Controlling chemoselectivity—application of DMF di-*t*-butyl acetal in the regioselective synthesis of 3-monosubstituted indolizines

pp 8817–8820

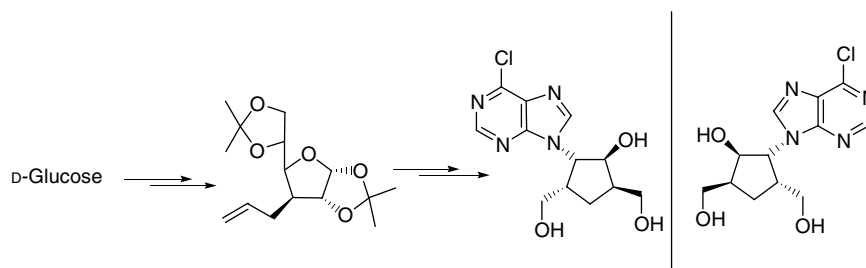
Zhiqiang Xia, Teresa Przewloka, Keizo Koya, Mitsunori Ono, Shoujun Chen and Lijun Sun*



Carbanucleosides: synthesis of both enantiomers of 2-(6-chloro-purin-9-yl)-3,5-bishydroxymethyl cyclopentanol from D-glucose

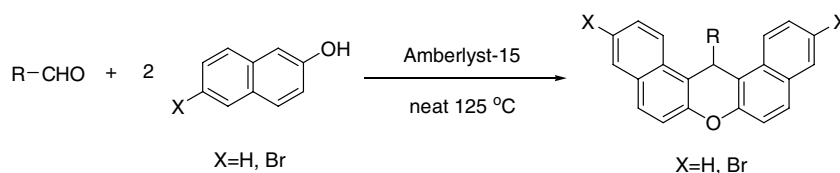
pp 8821–8825

Biswajit G. Roy, Joy Krishna Maity, Michael G. B. Drew, Basudeb Achari and Sukhendu B. Mandal*

**Heterogeneous catalyst: Amberlyst-15 catalyzes the synthesis of 14-substituted-14*H*-dibenzo[*a,j*]-xanthenes under solvent-free conditions**

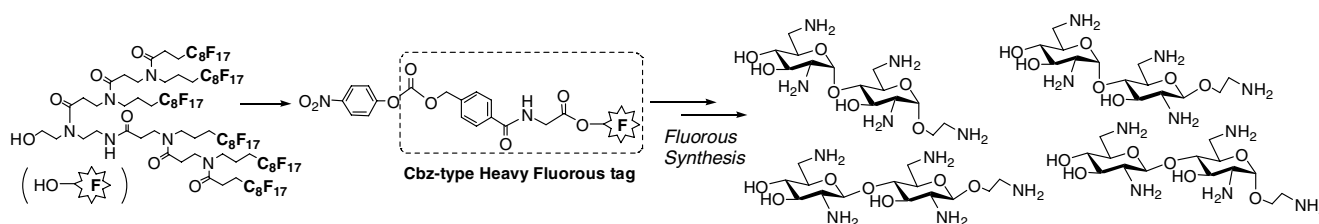
pp 8827–8829

Shengkai Ko and Ching-Fa Yao*

**Synthesis of aminoglycoside derivatives on a Cbz-type heavy fluoruous tag**

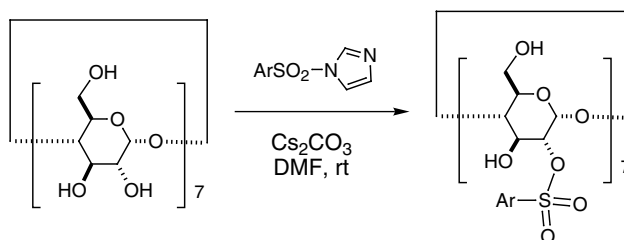
pp 8831–8835

Mamoru Mizuno,* Hiroharu Matsumoto, Kohtaro Goto and Keita Hamasaki

**A facile sulfonylation method enabling direct syntheses of per(2-*O*-sulfonyl)- β -cyclodextrins**

pp 8837–8840

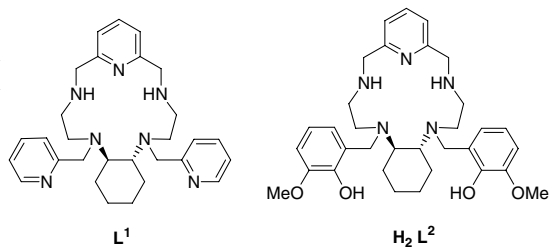
Hua Yu, Aya Teramoto, Makoto Fukudome, Ru-Gang Xie, De-Qi Yuan* and Kahee Fujita*



Synthesis and manganese complexes of pentagonal bipyramidal ligands: *N,N'*-disubstituted pentaaza macrocycles pp 8841–8845

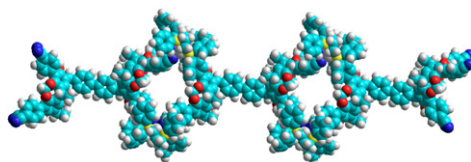
Wonchoul Park, Mi Hee Shin, Jin Ho Chung, Jaejoon Park, Myoung Soo Lah and Dongyeol Lim*

Two heptadentate ligands were prepared and the crystal structure of manganese complex with **L**¹ revealed a pentagonal bipyramidal geometry.



Self-assembly of octacyano-biscavitand by metal ligand interaction: incorporation of container unit in polymer back bone pp 8847–8850

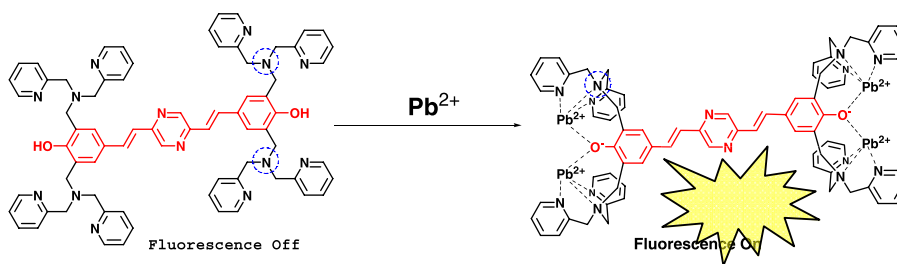
Chaesang Ihm, Yoon-Joo Ko, Jung-Hyu Shin and Kyungsoo Paek*



A selective fluorescent sensor for Pb(II) in water

Fang-Ying Wu, Se Won Bae and Jong-In Hong*

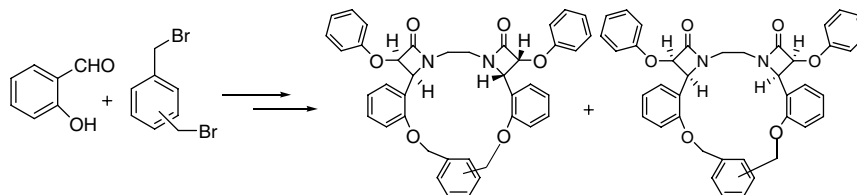
pp 8851–8854



Stereoselective synthesis of bis-β-lactam grafted macrocycles

Natarajan Arumugam and Raghavachary Raghunathan*

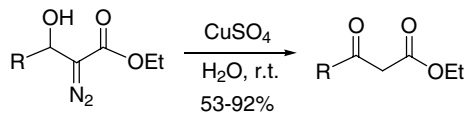
pp 8855–8857



CuSO₄-catalyzed diazo decomposition in water: a practical synthesis of β-keto esters

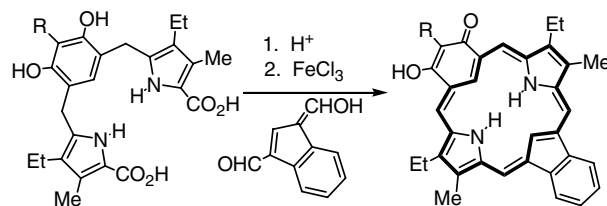
pp 8859–8861

Mingyi Liao and Jianbo Wang*

**Synthesis of aromatic dicarbaporphyrinoids from resorcinol and 2-methylresorcinol**

pp 8863–8866

Linlin Xu and Timothy D. Lash*

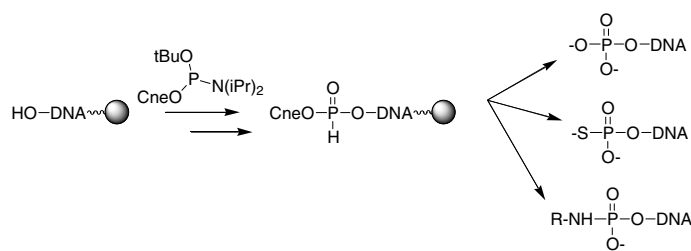


23-Carba-oxybenzporphyrins, a new group of dicarbaporphyrinoids, are easily prepared by reacting tripyrrane analogues derived from resorcinol or 2-methylresorcinol with an indene dialdehyde under MacDonal '3+1' conditions.

**A versatile reagent for the synthesis of 5'-phosphorylated, 5'-thiophosphorylated or 5'-phosphoramidate-conjugated oligonucleotides**

pp 8867–8871

Albert Meyer, Camille Bouillon, Sébastien Vidal, Jean-Jacques Vasseur and François Morvan*

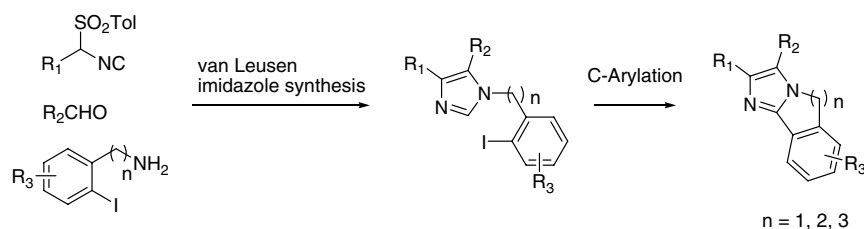


A new phosphorylating reagent for chemical 5'-modification of oligonucleotides.

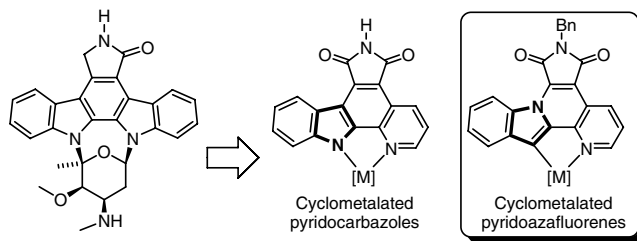
Synthesis of fused imidazole rings by sequential van Leusen/C–H bond activation

pp 8873–8876

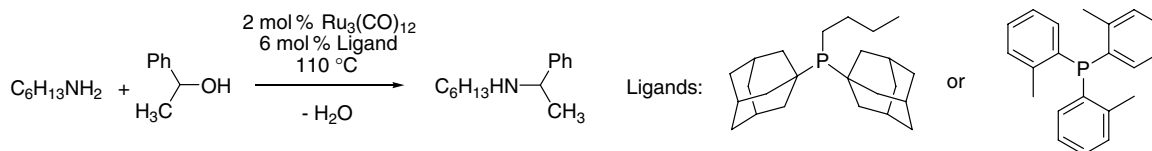
Vijaya Gracias,* Alan F. Gasielki, Thomas G. Pagano and Stevan W. Djuric



Synthesis and cyclometalation of a pyrido[3,2-*e*]-2,10*b*-diazacyclopenta[*c*]fluorene-1,3-dione scaffold pp 8877–8880
 Seann P. Mulcahy, Patrick J. Carroll and Eric Meggers*



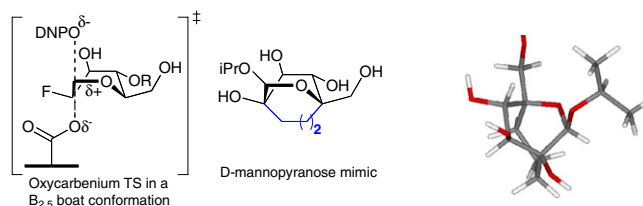
A novel ruthenium-catalyzed amination of primary and secondary alcohols pp 8881–8885
 Annegret Tillack, Dirk Hollmann, Dirk Michalik and Matthias Beller*



The N-alkylation of primary amines with primary and secondary alcohols proceeds smoothly in the presence of in situ generated ruthenium catalysts such as $\text{Ru}_3(\text{CO})_{12}$ /tri-*o*-tolylphosphine or *n*-butyl-di-1-adamantylphosphine.

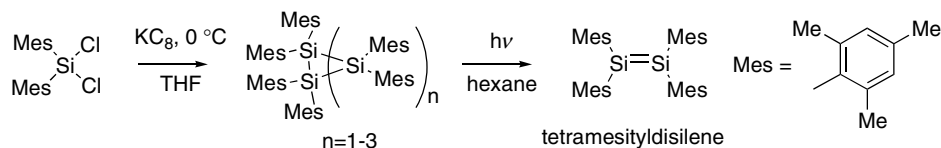
RCM as a tool to freeze conformation of monosaccharides: synthesis of a β -mannopyranoside mimic pp 8887–8891
 adopting a conformation close to the biologically relevant $B_{2,5}$ boat

Luis Amorim, Dolores Díaz, Luis P. Calle-Jiménez, Jesús Jiménez-Barbero, Pierre Sinaÿ and Yves Blériot*



The synthesis of a D -mannopyranose mimic displaying a conformation close to the $B_{2,5}$ boat adopted by the oxycarbenium transition state during glycosidic bond cleavage of β -mannane by family of 26 β -mannanase, is described.

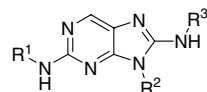
A novel synthesis of tetramesityldisilene pp 8893–8895
 Cinzia Chiappe, Giovanni Imperato, Dieter Lenoir and Elio Napolitano*



Solid-phase synthesis of N-9-substituted 2,8-diaminopurines

pp 8897–8900

Andrew G. Cole,* Axel Metzger, Gulzar Ahmed, Marc-Raleigh Brescia, Ray J. Chan, James Wen, Linda O'Brien, Lan-Ying Qin and Ian Henderson

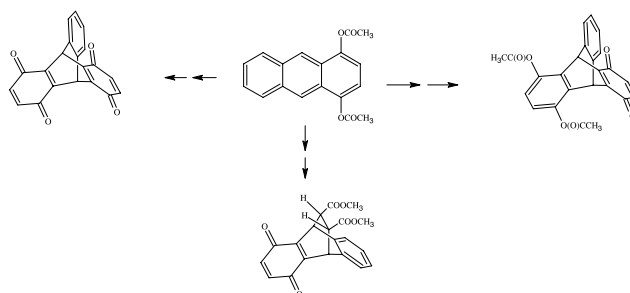


A general and efficient solid-phase synthesis of N-9-substituted 2,8-diaminopurines from 5-nitrouracil employing a carbodiimide-mediated cyclization of a thiourea is described.

Synthesis of bicyclic quinones via 1,4-diacetoxyanthracene

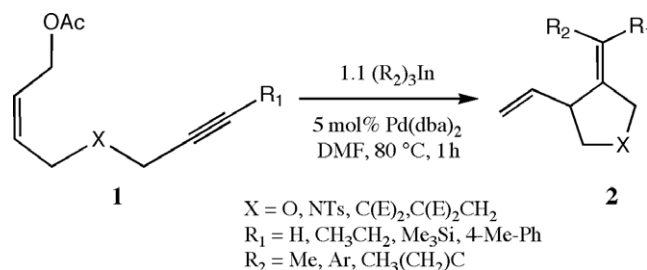
pp 8901–8903

Grigoriy A. Sereda,* Jesse Van Heukelom and Sudha Ramreddy

**Palladium-catalyzed reactions of acetoxyenynes with triorganoindium reagents**

pp 8905–8910

John T. Metz, Jr., Raffi A. Terzian and Thomas Minehan*

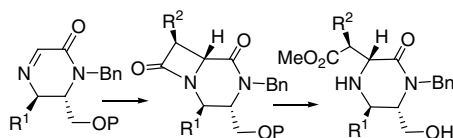


Treatment of acetoxyenynes with triorganoindium reagents in the presence of 5 mol % palladium catalyst leads to the formation of substituted five- and six-membered rings in moderate to high yields.

**Highly diastereoselective Staudinger reaction on 5,6-dihydropyrazin-2-(1H)-ones. Synthesis of enantiopure fused oxopiperazino-β-lactams**

pp 8911–8915

Alma Viso,* Roberto Fernández de la Pradilla* and Aida Flores

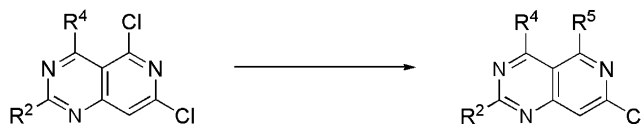


Diastereoselective [2+2] cycloaddition onto 5,6-dihydropyrazin-2(1H)-ones produces enantiopure oxopiperazino-β-lactams, precursors to enantiopure 2-oxopiperazine 3-acetate derivatives by methanolysis.

Regioselective cross-coupling reactions and nucleophilic aromatic substitutions on a 5,7-dichloropyrido[4,3-*d*]pyrimidine scaffold

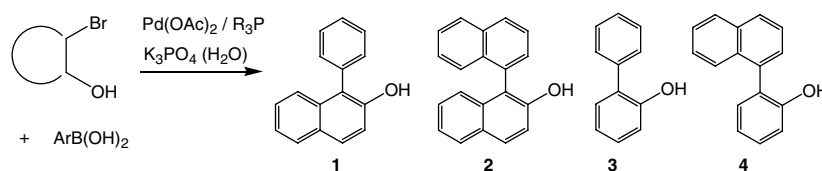
pp 8917–8920

Mi-Yeon Jang, Steven De Jonghe, Ling-Jie Gao and Piet Herdewijn*

**Microwave-promoted Suzuki–Miyaura coupling of arylboronic acids with 1-bromo-2-naphthol, *o*-bromophenol, and *o*-chlorophenol**

pp 8921–8924

Piotr Wawrzyniak and Joachim Heinicke*

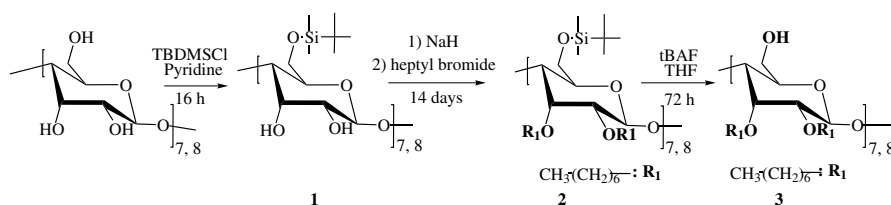


A simple and efficient Suzuki–Miyaura cross-coupling of unprotected 2-hydroxyaryl bromides and of 2-chlorophenol with arylboronic acids using suitable phosphine/Pd(OAc)₂ catalysts systems and microwave heating is reported.

**Synthesis of per-2,3-di-*O*-heptyl- β and γ -cyclodextrins: a new kind of amphiphilic molecules bearing hydrophobic parts**

pp 8925–8927

Nezha Badi,* Nathalie Jarroux and Philippe Guégan*

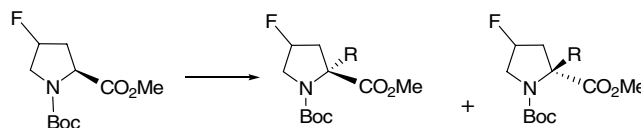


The synthesis of new amphiphilic per-2,3-di-*O*-heptyl- β and γ -cyclodextrins is reported. These molecules having hydrophobic chains are obtained in three steps from natural cyclodextrins in about 60% yields. Their structures are confirmed by NMR spectroscopy and mass spectrometry.

**Diastereoselectivity in the alkylation of 4-fluoroproline methyl esters**

pp 8929–8932

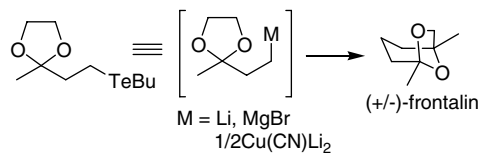
Rosanna Filosa,* Claude Holder and Yves P. Auberson



Organotellurides as a source of organometallics: application in the synthesis of (+/-)-frontalin

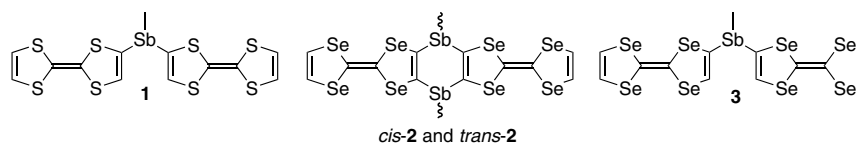
pp 8933–8935

Alcindo A. Dos Santos,* Renan S. Ferrarini, Jefferson L. Princival and João V. Comasseto

**The first methyl antimony linked dimeric tetrathiafulvalene and tetraselenafulvalenes**

pp 8937–8941

Minoru Ashizawa,* Hiroshi M. Yamamoto, Akiko Nakao and Reizo Kato*

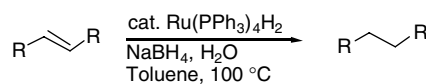


In quest of novel organic donors, dimeric tetrathiafulvalene (TTF) and tetraselenafulvalenes (TSFs) linked by a single or double methyl antimony bridge have been first prepared. The cyclic voltammetry studies and X-ray structure analyses of the present molecules are reported.

Ruthenium catalysed reduction of alkenes using sodium borohydride

pp 8943–8944

Gareth R. A. Adair, Kamal K. Kapoor, Alexandre L. B. Scolan and Jonathan M. J. Williams*

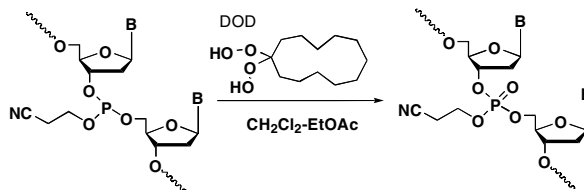


Ruthenium catalysts were used for the reduction of alkenes using sodium borohydride as the stoichiometric reducing agent.

1,1-Dihydroperoxycyclododecane as a new, crystalline non-hygroscopic oxidizer for the chemical synthesis of oligodeoxyribonucleotides

pp 8945–8947

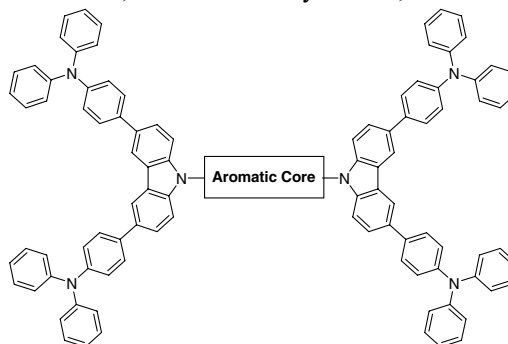
Hisao Saneyoshi, Kenichi Miyata, Kohji Seio and Mitsuo Sekine*



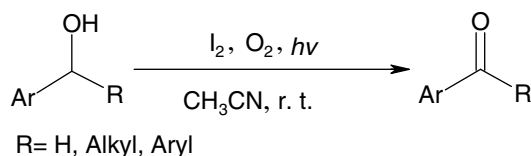
Synthesis and properties of stable amorphous hole-transporting molecules for electroluminescent devices pp 8949–8952

Vinich Promarak,* Musubu Ichikawa, Duongratchaneekorn Meunmart, Taweesak Sudyoadsuk, Sayant Saengsuwan and Tinnagon Keawin

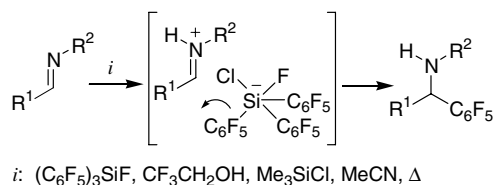
The synthesis and characterization of new triphenylamine-carbazole end-capped molecules is reported. The double-layer OLED devices of these molecules with Alq₃ exhibit bright green emission with a low turn-on voltage of 3.4 V.

**Aerobic photocatalytic oxidation of activated benzylic and allylic alcohols to carbonyl compounds catalyzed by molecular iodine** pp 8953–8957

Saeid Farhadi,* Abedien Zabardasti and Zaynab Babazadeh

**Chloride ion promoted nucleophilic pentafluorophenylation of imines** pp 8959–8963

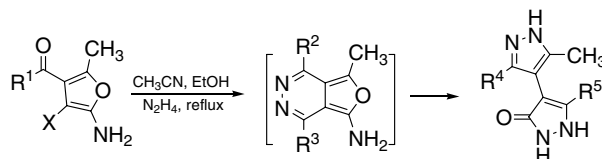
Vitalij V. Levin, Alexander D. Dilman,* Pavel A. Belyakov, Marina I. Struchkova and Vladimir A. Tartakovsky



Nucleophilic addition of the C₆F₅-group to non-activated imines is described.

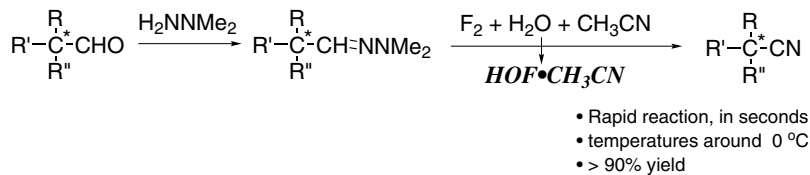
**Investigation of hydrazine addition to functionalized furans: synthesis of new functionalized 4,4'-bipyrazole derivatives** pp 8965–8968

Mehdi Bakavoli,* Babak Feizyadeh and Mohammad Rahimizadeh

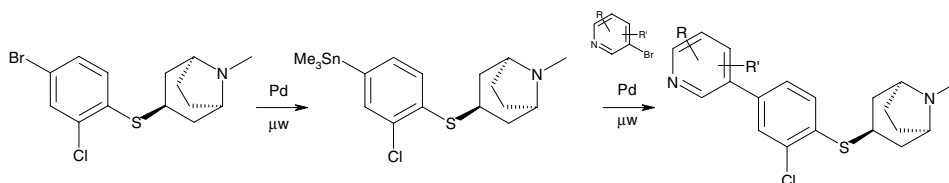


A series of 4,4'-bipyrazoles were synthesized by the reaction of functionalized furans with hydrazine hydrate.

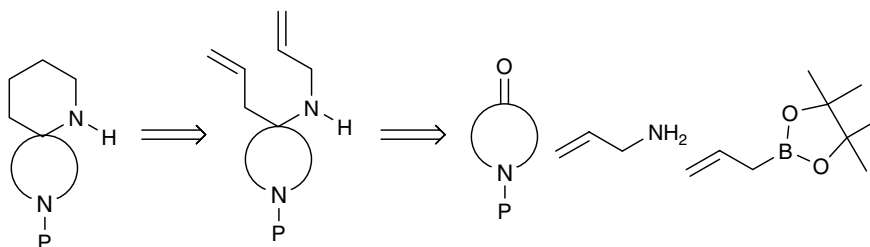
From aldehydes to nitriles, a general and high yielding transformation using HOF·CH₃CN complex pp 8969–8972
Mira Carmeli, Neta Shefer and Shlomo Rozen*



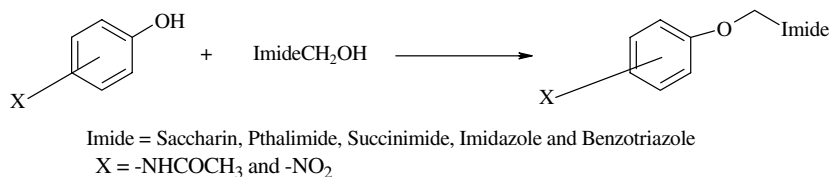
A convenient microwave-assisted arylstannane generation-Stille coupling protocol pp 8973–8976
Véronique Dehlinger,* Frédéric Cordier, Colin P. Dell, Nicolas Dreyfus, Nikki Jenkins, Adam J. Sanderson and Colin W. Smith



An expedient route to diaza-spirocycles utilizing a sequential multicomponent α-aminoallylation/ ring-closing metathesis strategy pp 8977–8980
Vijaya Gracias,* Alan F. Gasielki, Joel D. Moore, Irimi Akritopoulou-Zanze and Stevan W. Djuric



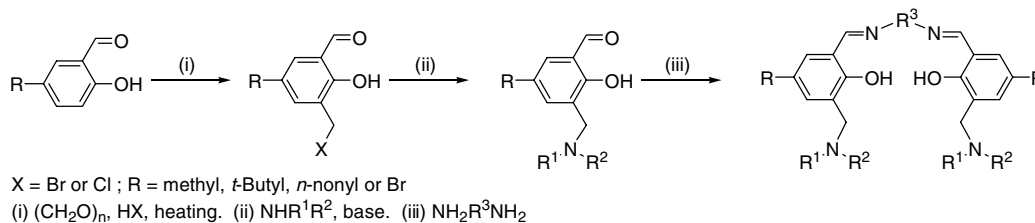
Synthesis of soft alkyl phenolic ether prodrugs using Mitsunobu chemistry pp 8981–8982
Susruta Majumdar, Juha Juntunen, Sashi Sivendran, Neelam Bharti and K. B. Sloan*



The one-pot halomethylation of 5-substituted salicylaldehydes as convenient precursors for the preparation of heteroditopic ligands for the binding of metal salts

pp 8983–8987

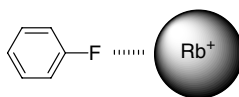
Qiang Wang, Claire Wilson, Alexander J. Blake, Simon R. Collinson, Peter A. Tasker and Martin Schröder*



C–F···Rb⁺ interaction in a fluorinated cage compound complex

pp 8989–8991

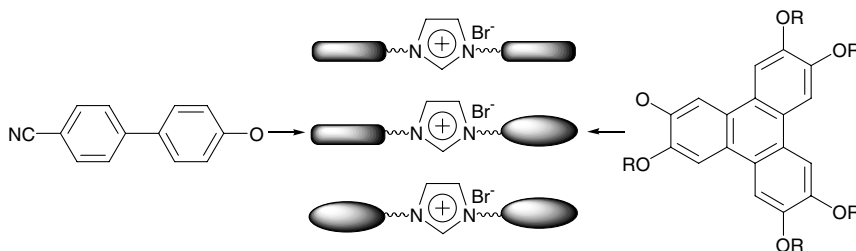
Hiroyuki Takemura,* Tetsuo Iwanaga and Teruo Shinmyozu



Microwave-assisted synthesis of novel imidazolium-based ionic liquid crystalline dimers

pp 8993–8997

Santanu Kumar Pal and Sandeep Kumar*

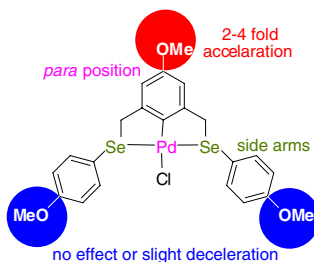


Microwave promoted synthesis of novel imidazolium-based ionic liquid crystalline dimers containing calamitic–calamitic, calamitic–discotic and discotic–discotic moieties has been described.

Strategies for fine-tuning the catalytic activity of pincer-complexes

pp 8999–9001


Juhanes Aydin, Nicklas Selander and Kálmán J. Szabó*



Methoxy substitution at the *para*-position of SeCSe pincer-complexes leads to an increase of the catalytic activity in palladium-catalyzed coupling reactions.



*Corresponding author

 Supplementary data available via ScienceDirect

Available online at www.sciencedirect.com



Abstracted/indexed 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. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®]



ELSEVIER

ISSN 0040-4039