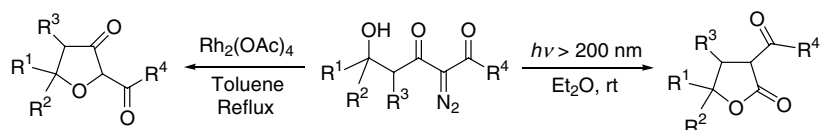


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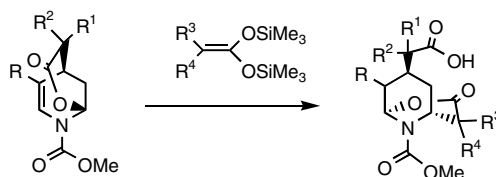
Synthesis of oxygen-containing heterocyclic compounds based on the intramolecular O–H insertion and Wolff rearrangement of α -diazocarbonyl compounds pp 4537–4540

Mingyi Liao, Suwei Dong, Guisheng Deng and Jianbo Wang*



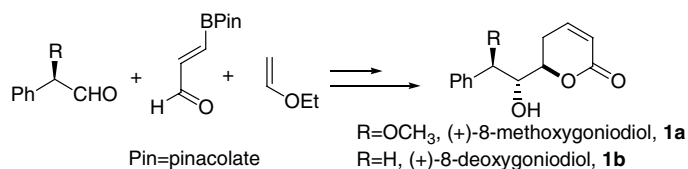
Lactones from lactones: regio and diastereoselective double dinucleophilic additions of bis(OTMS) ketene acetals to pyridines pp 4541–4544

Yiming Xu, Henri Rudler,* Bernard Denise, Andrée Parlier, Patrick Chaquin and Patrick Herson



First synthesis of (+)-8-methoxygoniodiol and its analogue, 8-deoxygoniodiol, using a three component strategy pp 4545–4548

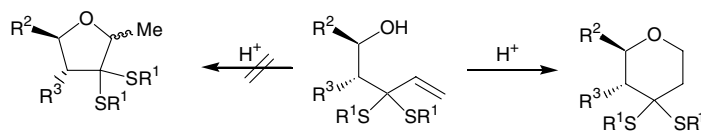
François Carreaux,* Annaick Favre, Bertrand Carboni, Isabelle Rouaud and Joel Boustie



Anti-Markovnikov addition to alkenes with a neighbouring thioacetal function

pp 4549–4551

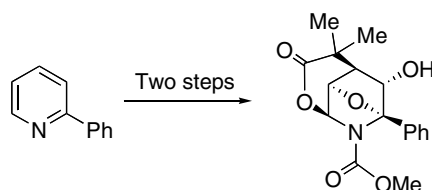
Tim Bongardt, Sylvia Dreeßen, Ralf Tiedemann and Ernst Schaumann*



The acid-induced cyclisation of unsaturated thioacetals gives pyrans as anti-Markovnikov products, apparently involving sulfur elimination and readdition.

Selective functionalizations of 2-phenylpyridine: lactones upon organic versus organometallic activations pp 4553–4556

Yiming Xu, Eugenia Aldeco-Pérez, Henri Rudler,* Andrée Parlier and Cecilio Alvarez

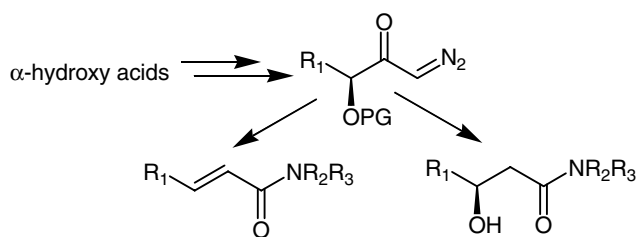


Lactones fused to either of the two aromatic rings are formed in a high diastereoselective way.

Homologation of α -hydroxy acids to α -unsubstituted β -hydroxy carboxamides via Arndt–Eistert reaction

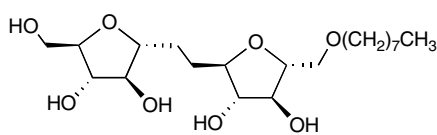
pp 4557–4560

Jan Spengler,* Javier Ruíz-Rodríguez, Klaus Burger and Fernando Albericio*

**An olefin cross metathesis approach to C-disaccharide analogs of the α -D-arabinofuranosyl-(1 \rightarrow 5)- α -D-arabinofuranoside motif found in the mycobacterial cell wall**

pp 4561–4564

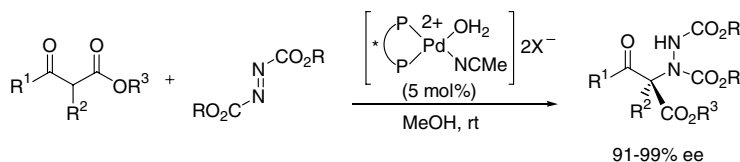
Grace X. Chang and Todd L. Lowary*



Catalytic enantioselective electrophilic α -amination of β -ketoesters catalyzed by chiral palladium complexes

pp 4565–4568

Young Ku Kang and Dae Young Kim*

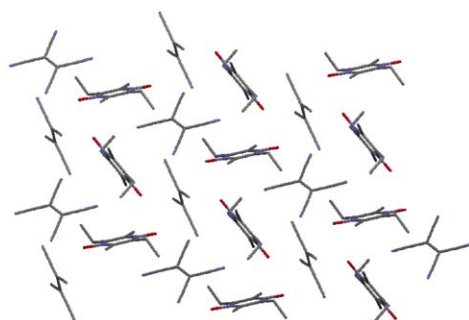


Pyrazine- N,N' -dioxide/tetracyanoethylene electron donor–acceptor bonding and the effect of donor steric demand and symmetry on the cocrystal assembly

pp 4569–4572

Timothy J. Kucharski, Jerry R. Oxsher and Silas C. Blackstock*

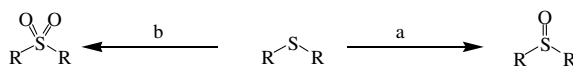
Diethyldimethylpyrazine- N,N' -dioxide (DEDMPDO) assembles with tetracyanoethylene (TCNE) into a 1:1 purple cocrystal giving layered networks cohered by DEDMPDO–TCNE donor–acceptor (DA) bonds. The NO–C intermolecular contacts are 2.81–3.02 Å and the two-dimensional DA bonded network is built from two unique donors and two unique acceptors within the assembly.



Selective oxidation of sulfides to sulfoxides and sulfones at room temperature using H_2O_2 and a Mo(VI) salt as catalyst

pp 4573–4576

Kandasamy Jeyakumar and Dillip Kumar Chand*



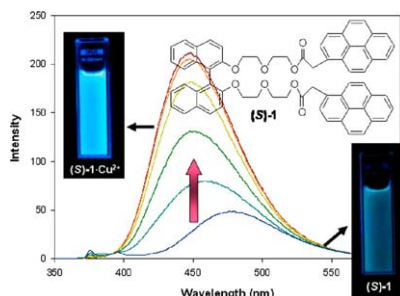
- (a) MoO_2Cl_2 (1.5 mol%), 30% H_2O_2 (1.05 equiv), acetone:water (1.5:1), rt;
- (b) MoO_2Cl_2 (15 mol%), 30% H_2O_2 (4 equiv), acetonitrile, rt.



Unique blue shift due to the formation of static pyrene excimer: highly selective fluorescent chemosensor for Cu^{2+}

pp 4577–4580

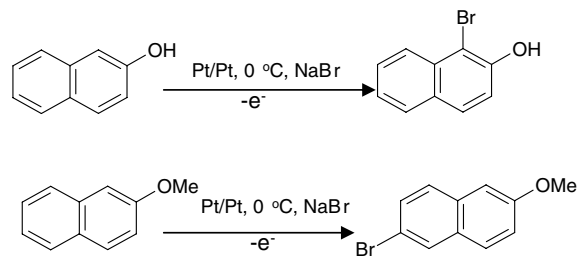
Eun Jin Jun, Han Na Won, Jong Seung Kim, Keun-Hyeung Lee and Juyoung Yoon*



Site directed nuclear bromination of aromatic compounds by an electrochemical method

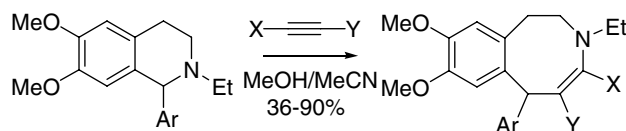
pp 4581–4584

T. Raju,* K. Kulangiappar, M. Anbu Kulandainathan, U. Uma, R. Malini and A. Muthukumar

**Tandem enlargement of the tetrahydropyridine ring in 1-aryl-tetrahydroisoquinolines using activated alkynes—a new and effective synthesis of benzoazocines**

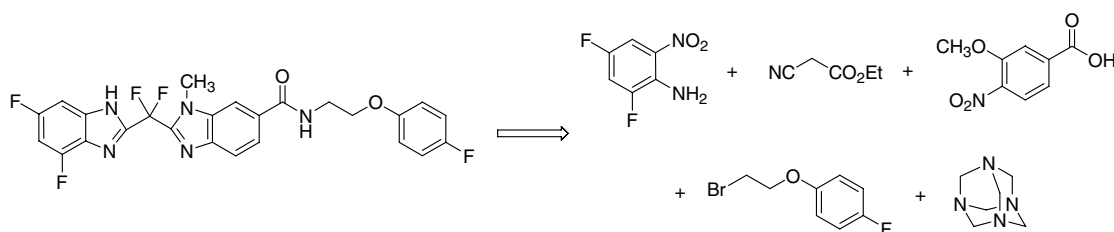
pp 4585–4589

Leonid G. Voskressensky,* Tatiana N. Borisova, Anna V. Listratova, Larisa N. Kulikova, Alexander A. Titov and Alexey V. Varlamov

**Development of a scalable synthesis of a nonbasic inhibitor of the serine protease trypsin**

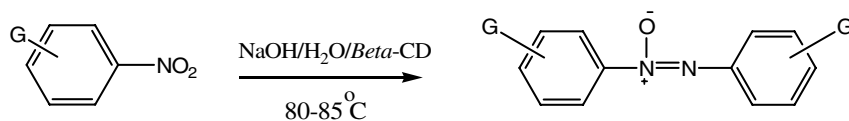
pp 4591–4595

Jeffrey M. Dener,* Colin O'Bryan, Robert Yee, Emma J. Shelton, David Sperandio, Tania Mahajan, James T. Palmer, Jeffrey R. Spencer and Zhiwei Tong

**Reduction of mononitroarenes by hydroxide ion in water catalyzed by β -cyclodextrin: enhanced reactivity of hydroxide ion**

pp 4597–4599

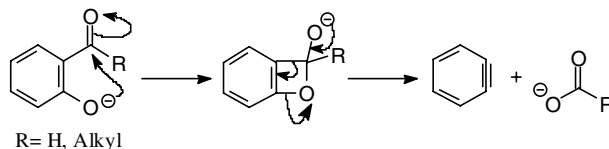
Yun Lu,* Jiancheng Liu, Garry Diffie, Diansheng Liu and Bo Liu*

G = *m*-Cl, *p*-Cl, *p*-Br, *p*-I, *m*-CH₃, *m*-OCH₃

An unprecedented ortho effect in mass spectrometric fragmentation of even-electron negative ions from hydroxyphenyl carbaldehydes and ketones

pp 4601–4603

Athula Attygalle,* Josef Ruzicka, Deepu Varughese and Jafri Sayed

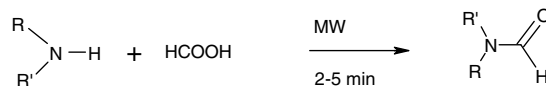


A mass spectrometric peak for a carboxylate anion was observed in collision-induced dissociation (CID) mass spectra of negative ions derived from *ortho* isomers of hydroxyphenyl carbaldehydes and ketones.

Microwave promoted energy-efficient N-formylation with aqueous formic acid

pp 4605–4607

Ajay K. Bose,* Subhendu N. Ganguly, Maghar S. Manhas, Atri Guha and Esteban Pombo-Villars

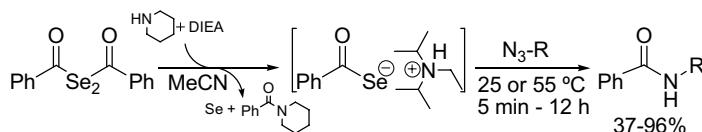


Formic acid (80%) under MW irradiation converts primary and secondary amines to N-formyl compounds in 80–90% yield.

Improved solubility and stability of trialkylammonium selenocarboxylate in organic solvents for efficient amidation with azides

pp 4609–4613

Prathima Surabhi, Xinghua Wu and Longqin Hu*

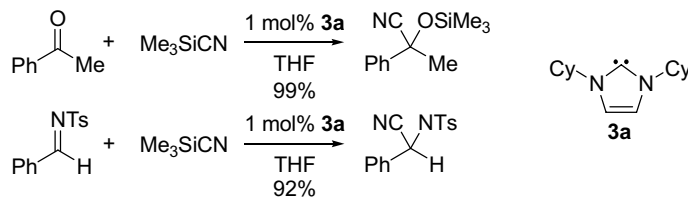


Trialkylammonium selenocarboxylate has good solubility and stability in organic solvents and reacts readily with azides to form amides.

Highly efficient trialkylsilylcyanation of aldehydes, ketones and imines catalyzed by a nucleophilic N-heterocyclic carbene

pp 4615–4618

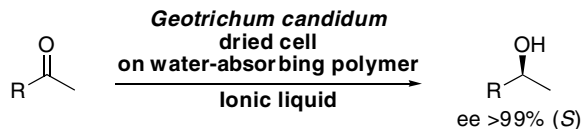
Taichi Kano, Kouji Sasaki, Tepei Konishi, Haruka Mii and Keiji Maruoka*



An effective method to use ionic liquids as reaction media for asymmetric reduction by *Geotrichum candidum*

pp 4619–4622

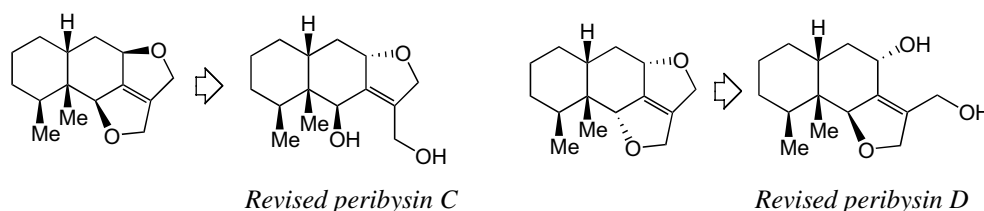
Tomoko Matsuda,* Yusuke Yamagishi, Shinichi Koguchi, Noritaka Iwai and Tomoya Kitazume



Structural revision of peribysins C and D

pp 4623–4626

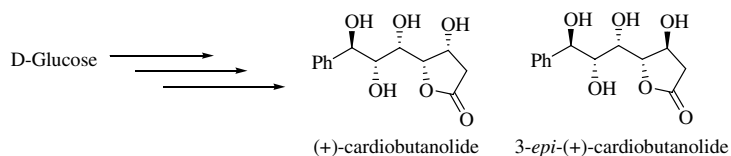
Hiroyuki Koshino,* Hiroko Satoh,* Takeshi Yamada and Yasuaki Esumi



Stereoselective total synthesis of (+)-cardiobutanolide and (+)-3-*epi*-cardiobutanolide from diacetone D-glucose

pp 4627–4630

Palakodety Radha Krishna* and P. V. Narsimha Reddy

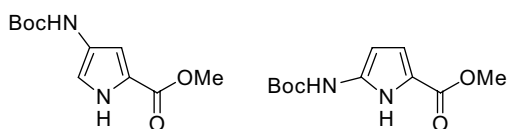


A chiron approach starting with D-glucose, using a Grignard reaction and a Mitsunobu stereoinversion followed by stereoselective 1,2-*syn* reduction of the β -ketoester has been applied to execute the total synthesis.

Synthesis and characterization of Boc-protected 4-amino- and 5-amino-pyrrole-2-carboxylic acid methyl esters

pp 4631–4634

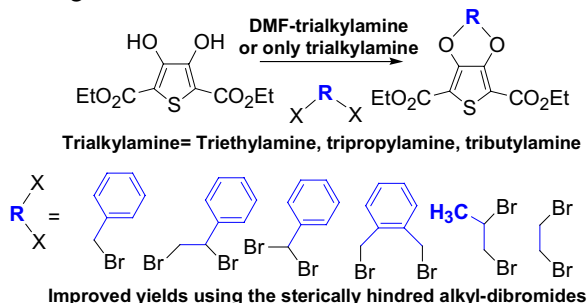
Tushar Kanti Chakraborty,* Sandip P. Udawant, Saumya Roy, Bajjuri Krishna Mohan, Kolla Srinivasa Rao, Samit Kumar Dutta and Ajit Chand Kunwar*



Efficient route for the synthesis of 3,4-cycloalkoxy-2,5-diethoxycarbonyl-thiophenes obtained with bulky alkyl dibromides using trialkylamines as base–solvent

pp 4635–4640

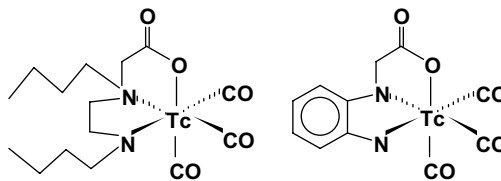
Bernardo A. Frontana-Urbe* and Jürgen Heinze*



Structure–biodistribution relation of neutral $^{99m}\text{Tc}(\text{CO})_3$ -complexes with tridentate N-substituted derivatives of aminoethylglycine and phenylenediamine

pp 4641–4645

Dirk Rattat, Jan Cleynhens, Christelle Terwinghe, An-Elisabeth De Greve and Alfons Verbruggen*

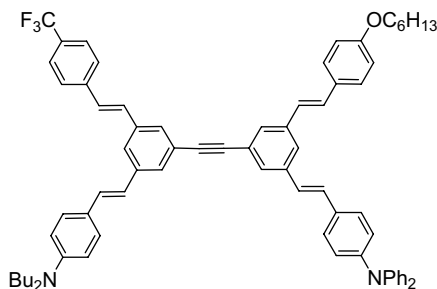


The ^{99m}Tc -tricarbonyl complexes [$^{99m}\text{Tc}(\text{CO})_3(\text{DBu})$] (DBu = *N,N'*-dibutyl-ethylenediamine-*N*-acetic acid), [$^{99m}\text{Tc}(\text{CO})_3(\text{PDAA})$] (PDAA = *ortho*-phenylenediamine-*N*-acetic acid) and [$^{99m}\text{Tc}(\text{CO})_3(\text{MPDAA})$] (MPDAA = *N*-methyl-*ortho*-phenylenediamine-*N*-acetic acid) showed brain uptake in mice. With these compounds as examples, ^{99m}Tc -tricarbonyl complexes may also be considered as potential brain imaging agents.

Unsymmetrically substituted four-armed tolanses: new multichromophoric molecules

pp 4647–4651

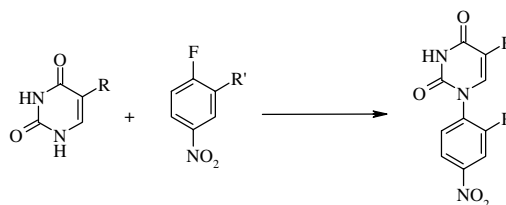
Juan Tolosa, Enrique Díez-Barra, Prado Sánchez-Verdú and Julián Rodríguez-López*



A convenient method for N-1 arylation of uracil derivatives

pp 4653–4657

Andrzej Gondela and Krzysztof Walczak*

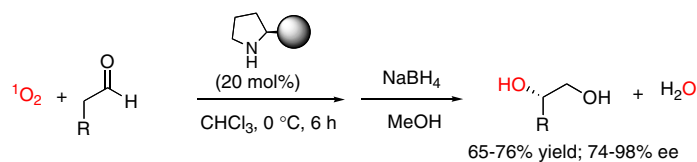


1-(4-Nitrophenyl)- and 1-(2,4-dinitrophenyl)uracil derivatives were prepared by direct arylation of uracil and its 5-substituted derivatives using 1-fluoro-4-nitrobenzene or 1-fluoro-2,4-dinitrobenzene. The application of 1-(2,4-dinitrophenyl)-5-nitrouracil in ANRORC type reactions is also presented.

A route to 1,2-diols by enantioselective organocatalytic α -oxidation with molecular oxygen

pp 4659–4663

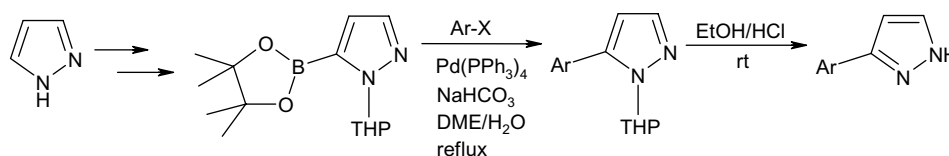
Ismail Ibrahim, Gui-Ling Zhao, Henrik Sundén and Armando Córdoba*



Efficient and simple synthesis of 3-aryl-1H-pyrazoles

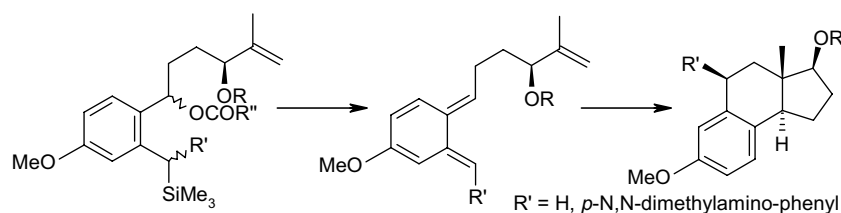
pp 4665–4669

Anne-Laure Gérard, Alexandre Bouillon, Clément Mahatsekake, Valérie Collot and Sylvain Rault*

Mild generation of *o*-quinodimethanes via fluoride induced 1,4-elimination of α -(*o*-trimethylsilylmethyl)-benzylesters: stereoselective synthesis of 19-nor steroids and RU486 precursors

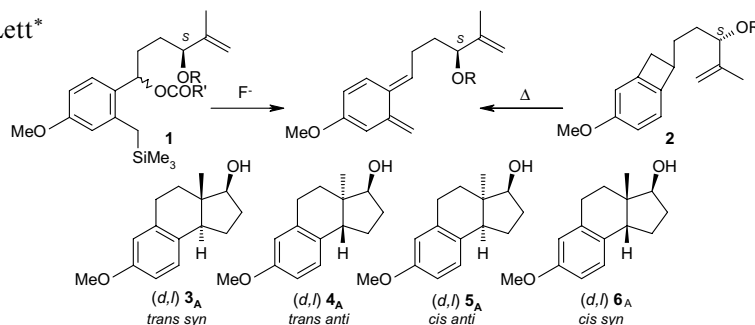
pp 4671–4675

Marc Port and Robert Lett*

Reappraisal of the diastereoselectivity of intramolecular Diels–Alder reactions of some *o*-quinodimethanes generated by benzocyclobutene thermolysis: some complementary results and an improvement

pp 4677–4681

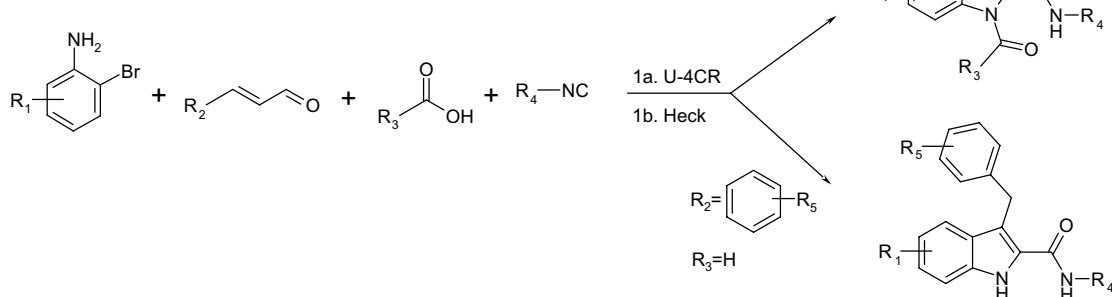
Marc Port and Robert Lett*



A novel one-pot synthesis of highly diverse indole scaffolds by the Ugi/Heck reaction

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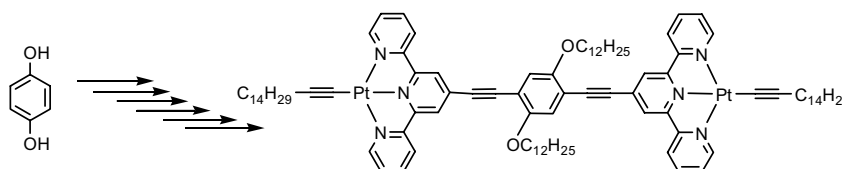
Cédric Kalinski,* Michael Umkehrer, Jürgen Schmidt, Günther Ross, Jürgen Kolb, Christoph Burdack, Wolfgang Hiller and Stephan D. Hoffmann



Step-controlled synthesis of platinum(II) acetylide frameworks from conjugated polyaromatic modules

pp 4687–4692

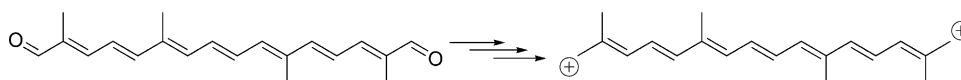
Raymond Ziessel* and Stéphane Diring



Novel diapocarotenoid dications with VIS/NIR absorption

pp 4693–4696

Geir Kildahl-Andersen, Thorleif Anthonsen and Synnøve Liaaen-Jensen*

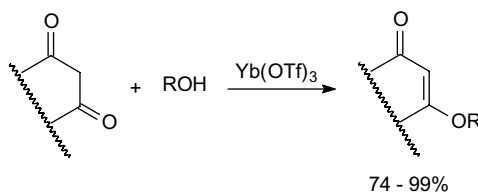


C₁₀⁺, C₂₀⁺ and C₂₄⁺ carbocations with 6, 14 and 18 π electrons were prepared and characterized.

Ytterbium triflate catalyzed synthesis of β-keto enol ethers

pp 4697–4700

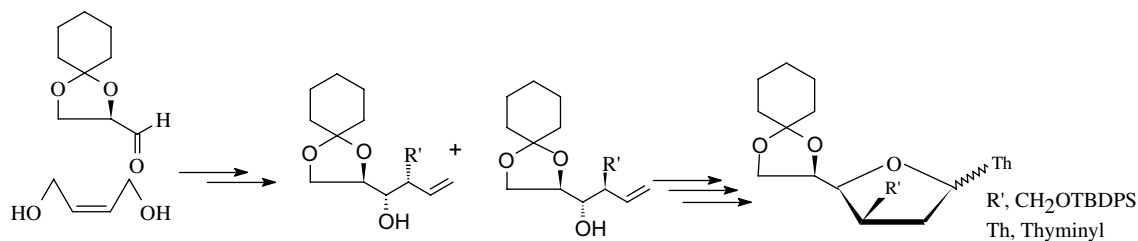
Massimo Curini,* Francesco Epifano and Salvatore Genovese



A simple and stereodivergent strategy for the synthesis of 3'-C-branched 2',3'-dideoxynucleosides exploiting (*Z*)-but-2-en-1,4-diol and (*R*)-2,3-cyclohexylidene-glyceraldehyde

pp 4701–4705

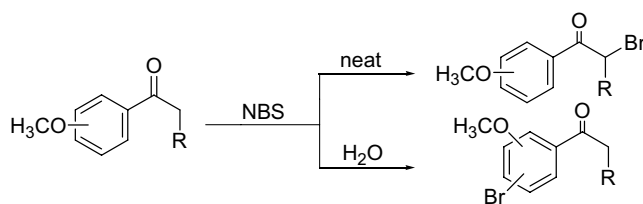
Angshuman Chattopadhyay,* Dibakar Goswami and Bhaskar Dhotare



Directed regioselectivity of bromination of ketones with NBS: solvent-free conditions versus water

pp 4707–4710

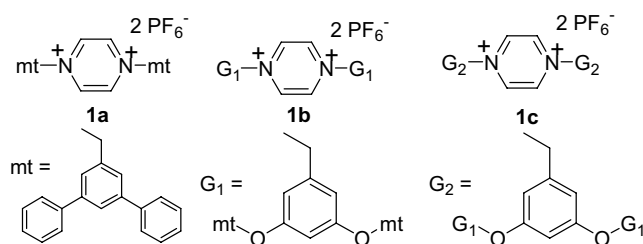
Igor Pravst, Marko Zupan and Stojan Stavber*



Synthesis of electrochemically active pyrazine based dendrimers

pp 4711–4714

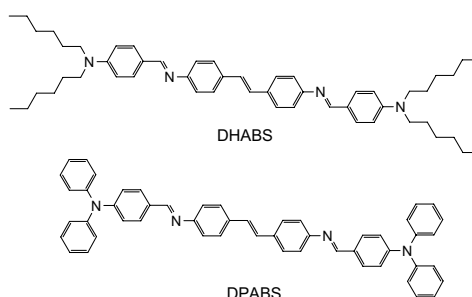
Perumal Rajakumar* and Kilivelu Ganesan



Synthesis and characterization of spin-coatable *tert*-amine molecules for hole-transport in organic light-emitting diodes

pp 4715–4719

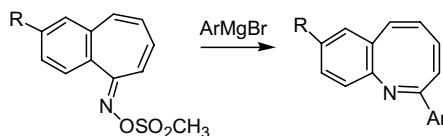
A. Mishra,* P. K. Nayak, D. Ray, M. P. Patankar, K. L. Narasimhan and N. Periasamy*



Syntheses of 2-arylated 1-benzazocines via Beckmann rearrangement

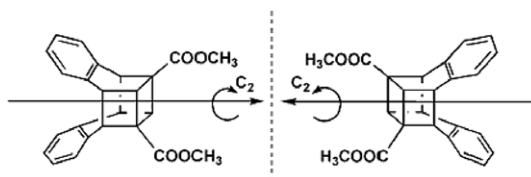
pp 4721–4724

Zhibo Ma, Shengjun Dai and Dequan Yu*

**Stereochemistry of a cubane-like photodimer of methyl 2-naphthoate**

pp 4725–4727

Lei Lei, Li-Zhu Wu,* Xiao-Ling Wu, Gui-Hong Liao, Lin Luo, Li-Ping Zhang, Chen-Ho Tung* and Kui-Ling Ding

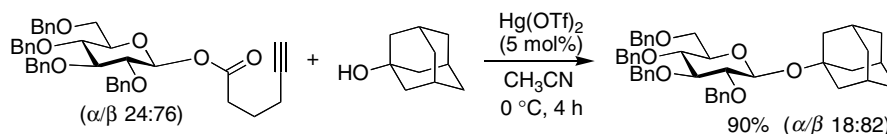


A novel type of C_2 -symmetric-chiral ligand, based on a cubane-like photodimer **1** of methyl 2-naphthoate, is reported. Crystal analysis reveals that the methyl carboxylate functionality is in an *anti*-head-to-head conformation and **1** is highly rigid. The racemic mixture of **1** has been successfully resolved into its optically pure enantiomers simply by HPLC.

**Hg(OTf)₂-catalyzed glycosylation using alkynoate as the leaving group**

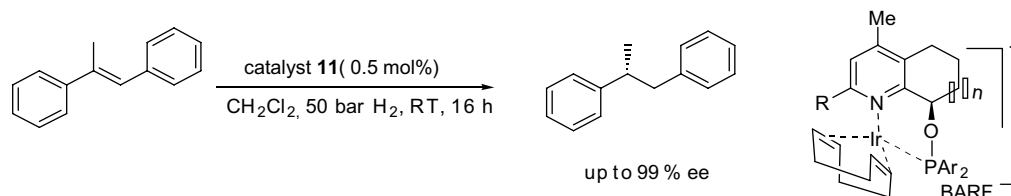
pp 4729–4731

Hiroshi Imagawa,* Atsushi Kinoshita, Takashi Fukuyama, Hirofumi Yamamoto and Mugio Nishizawa*

**Synthesis of tunable phosphinite–pyridine ligands and their applications in asymmetric hydrogenation**

pp 4733–4736

Qi-Bin Liu, Chang-Bin Yu and Yong-Gui Zhou*

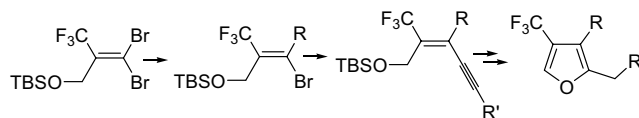


A new class of modular conformationally rigid N,P ligands is conveniently synthesized from readily available starting material. Iridium complexes with these ligands have demonstrated excellent enantioselectivity (up to 99% ee) in the asymmetric hydrogenation of aryl alkenes.

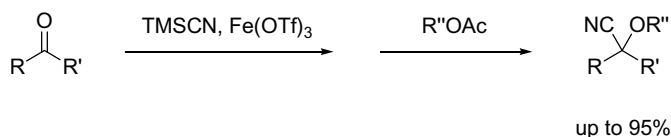


Highly efficient synthesis of 4-trifluoromethylfuran derivatives via a sequential deprotection-annulation reaction pp 4737–4739

Jiming Zhang, Xiaoming Zhao, Youhua Li and Long Lu*


Iron(III) triflate-catalyzed one-pot synthesis of acetal-type protected cyanohydrins from carbonyl compounds pp 4741–4744

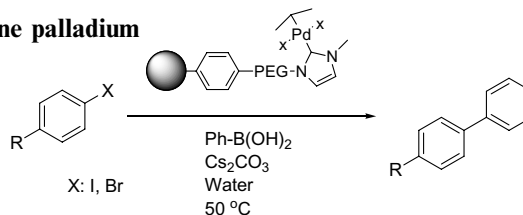
Katsuyuki Iwanami, Masaru Aoyagi and Takeshi Oriyama*



(R = alkyl, aryl; R' = alkyl, H; R'' = THP, MOM, MEM, BOM)

Amphiphilic polymer supported *N*-heterocyclic carbene palladium complex for Suzuki cross-coupling reaction in water pp 4745–4748

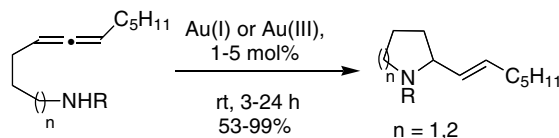
Jung-Woo Kim, Jong-Ho Kim, Dong-Ho Lee and Yoon-Sik Lee*



We synthesized amphiphilic polymer-supported *N*-heterocyclic carbene (NHC) precursor resins by loading polyethylene glycol (PEG) containing imidazolium groups on Merrifield resin. These PS-PEG-NHC precursor resins were compatible with water and readily formed a stable complex with palladium. These PS-PEG-NHC-Pd catalysts showed excellent catalytic activity for Suzuki cross-coupling reactions of various aryl iodides and bromides with phenylboronic acid in water than the previously described polystyrene based catalysts. In addition, the PS-PEG-NHC-Pd catalysts continued to provide excellent catalytic activity in Suzuki cross-coupling reactions after five consecutive recycles.

Gold-catalyzed intramolecular hydroamination of allenes: a case of chirality transfer pp 4749–4751

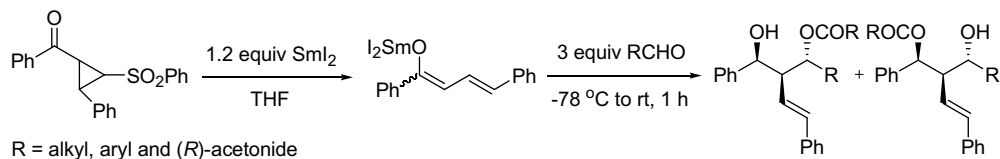
Nitin T. Patil, Léopold Mpaka Lutete, Naoko Nishina and Yoshinori Yamamoto*



Samarium dienolate mediated stereoselective synthesis of *anti*-1,3-diol monoesters via aldol-Tishchenko reaction

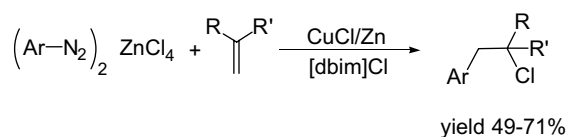
pp 4753–4757

Vichai Reutrakul,* Jaray Jaratjaroonphong, Patoomratana Tuchinda, Chutima Kuhakarn, Palangpon Kongsaree, Samran Prabpai and Manat Pohmakotr*

**Chloride based ionic liquids as promoting agents for Meerwein reaction in solventless conditions**

pp 4759–4762

Piero Mastroilli, Cosimo F. Nobile* and Nicola Taccardi

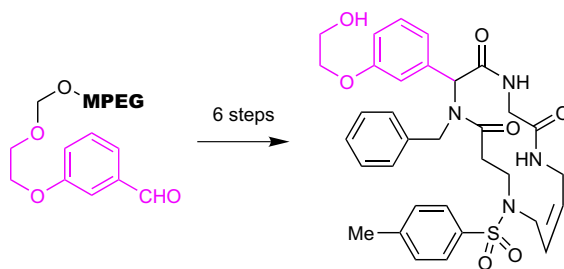


The Meerwein reaction was carried out in solventless conditions using 1,3-dibutylimidazolium chloride in the presence of a bimetallic Zn/Cu catalyst.

Skeletal diversity by allylation/RCM on Ugi four-component coupling reaction products

pp 4763–4767

Masato Oikawa,* Shinya Naito and Makoto Sasaki

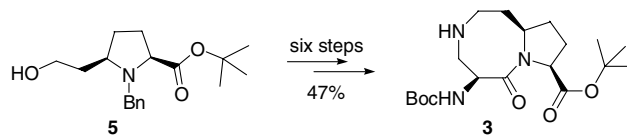


A diversity-oriented synthetic process toward structurally diverse peptidomimetics has been developed.

Design and synthesis of a 1,5-diazabicyclo[6,3,0] dodecane amino acid derivative as a novel dipeptide reverse-turn mimetic

pp 4769–4770

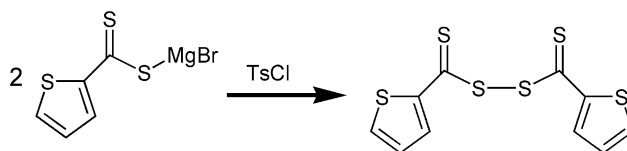
Yuefeng Peng, Haiying Sun and Shaomeng Wang*



Facile preparation of bis(thiocarbonyl)disulfides via elimination

pp 4771–4774

Wolfgang G. Weber, James B. McLeary* and Ron D. Sanderson

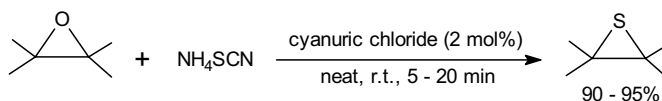


The preparation of disulfides of thiocarbonyl compounds is currently of great importance for the preparation of free radical polymerization mediating agents. An efficient elimination approach to these species is presented.

2,4,6-Trichloro-1,3,5-triazine catalyzed synthesis of thiiranes from oxiranes under solvent-free and mild conditions

pp 4775–4777

B. P. Bandgar,* Neeta S. Joshi and V. T. Kamble

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Corrigendum

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*Corresponding author

①* Supplementary data available via ScienceDirect



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ISSN 0040-4039