

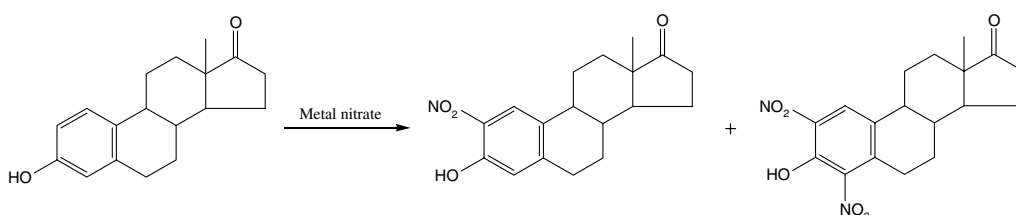
Contents

COMMUNICATIONS

Novel nitration of estrone by metal nitrates

pp 3945–3947

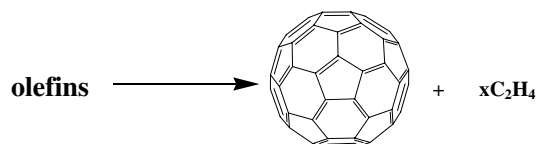
Ashley Bose, Widyanti P. Sanjoto, Samantha Villarreal, Hector Aguilar and Bimal K. Banik\*



Homodesmotic reaction for fullerenes

pp 3949–3951

Roberto Salcedo\* and Lioudmila Fomina



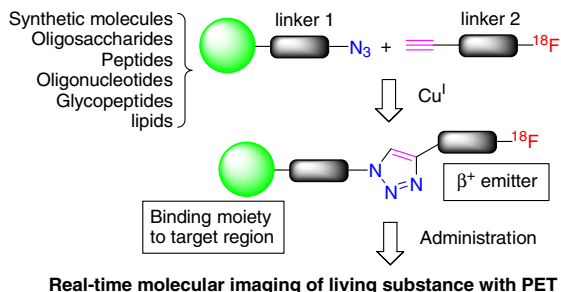
The ASE (aromatic stabilization energy) for  $C_{60}$  and  $C_{70}$  has been evaluated by a new homodesmotic reaction and the results support the early established fact that  $C_{70}$  is more stable than  $C_{60}$ .

An efficient F-18 labeling method for PET study: Huisgen 1,3-dipolar cycloaddition of bioactive substances and F-18-labeled compounds

pp 3953–3957

Uthaiwan Sirion, Hee Jun Kim, Jae Hak Lee, Jai Woong Seo, Byoung Se Lee,\* Sang Ju Lee, Seung Jun Oh and Dae Yoon Chi\*

Various F-18-labeled 1,2,3-triazoles were regioselectively prepared via the 'click reaction' of biomolecules and F-18-labeled prosthetic groups.



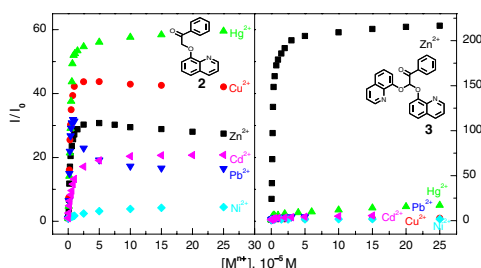
Real-time molecular imaging of living substance with PET



**8-Methoxyquinoline based turn-on metal fluoroionophores**

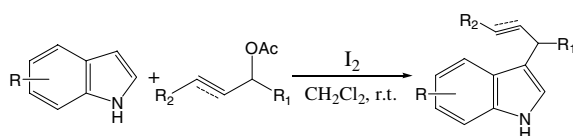
pp 3959–3962

Han Zhang, Qiang-Li Wang and Yun-Bao Jiang\*

**Iodine-catalyzed allylation and propargylation of indoles with allylic and propargylic acetates**

pp 3963–3967

Zhe Liu, Li Liu,\* Zahid Shafiq, Yan-Chao Wu, Dong Wang and Yong-Jun Chen\*

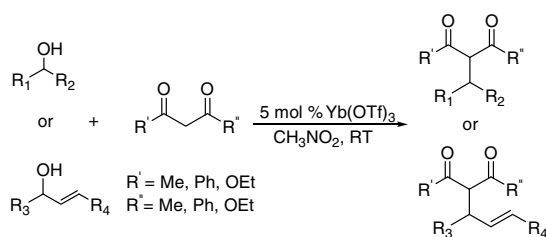


A mild and efficient allylation/propargylation of indoles has been developed with high regioselectivities and excellent yields. In the presence of catalytic molecular iodine, various indoles could smoothly react with allylic/propargylic acetates at room temperature to exclusively provide C-3 alkylated products.

**An efficient Yb(OTf)<sub>3</sub> catalyzed alkylation of 1,3-dicarbonyl compounds using alcohols as substrates**

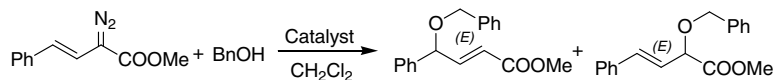
pp 3969–3973

Wen Huang, Jialiang Wang, Quansheng Shen and Xigeng Zhou\*

**Regioselectivity in Lewis acids catalyzed X–H (O, S, N) insertions of methyl styryldiazoacetate with benzyl alcohol, benzyl thiol, and aniline**

pp 3975–3977

Yongli Yue, Yuanhua Wang and Wenhao Hu\*



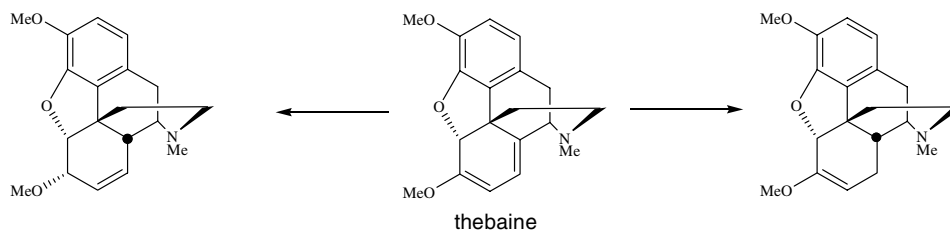
Catalyst

AgClO<sub>4</sub> : > 98 : 2Rh<sub>2</sub>(OAc)<sub>4</sub> : < 2 : 98

**Studies on regioselective hydrogenation of thebaine and its conversion to hydrocodone**

pp 3979–3981

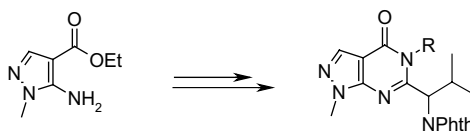
Hannes Leisch, Robert J. Carroll, Tomas Hudlicky\* and D. Phillip Cox



**A novel synthesis of substituted 4H-pyrazolo[3,4-d]pyrimidin-4-ones**

pp 3983–3986

Nicholas D. Adams,\* Stanley J. Schmidt, Steven D. Knight and Dashyant Dhanak



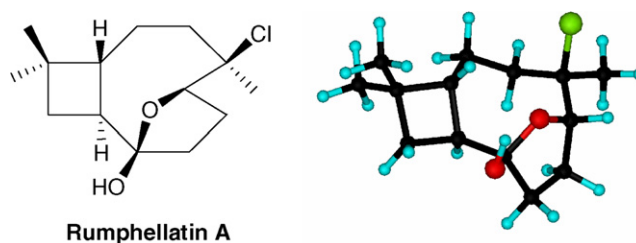
A novel synthesis of 4H-pyrazolo-[3,4-d]pyrimidin-4-ones utilizing an in situ generated iminochloride as a key precursor for amidine formation and subsequent base-catalyzed ring closure is described.



**Rumphellatin A, the first chloride-containing caryophyllane-type norsesquiterpenoid from *Rumphella antipathies***

pp 3987–3989

Ping-Jyun Sung,\* Li-Fan Chuang, Jimmy Kuo, Tung-Yung Fan and Wan-Ping Hu



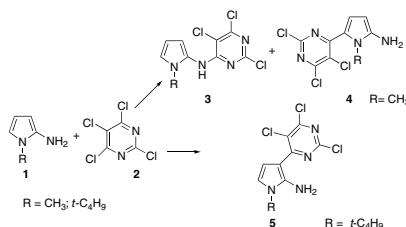
Rumphellatin A



**Effect of the leaving group on the reaction of 2-aminopyrroles with electron deficient heteroaromatic azadienes: substitution by addition–elimination versus cycloaddition**

pp 3991–3994

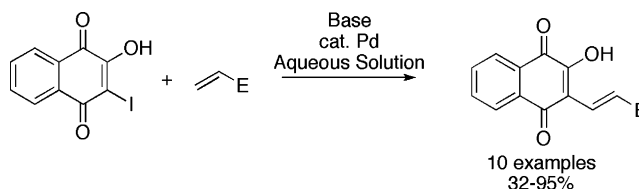
Michael De Rosa,\* David Arnold and Miroslav Medved'



**Synthesis of 2-hydroxy-3-substituted naphthoquinones using the Heck reaction**

pp 3995–3998

Alice L. Perez,\* G. Lamoureux and Bi Yun Zhen-Wu

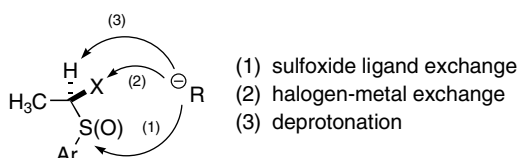


The first Heck coupling of a naphthoquinone nucleus in aqueous solution is described. The methodology is noteworthy for the use of 'green' chemistry and the ease of isolation of the products.

**Competing reaction pathways from  $\alpha$ -halo- $\alpha$ -protioalkyl aryl sulfoxides initiated by organometallic reagents**

pp 3999–4002

Paul R. Blakemore,\* Matthew S. Burge and Mark A. Sephton

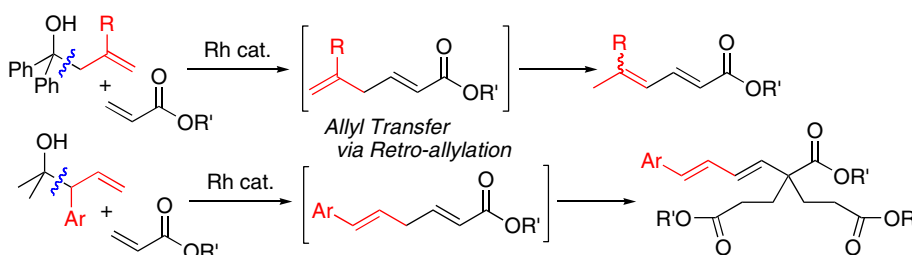


Competing sulfoxide ligand exchange, halogen-metal exchange, and deprotonation pathways from  $\alpha$ -halo- $\alpha$ -protioalkyl aryl sulfoxides were investigated.

**Rhodium-catalyzed allyl transfer from homoallyl alcohols to acrylate esters via retro-allylation**

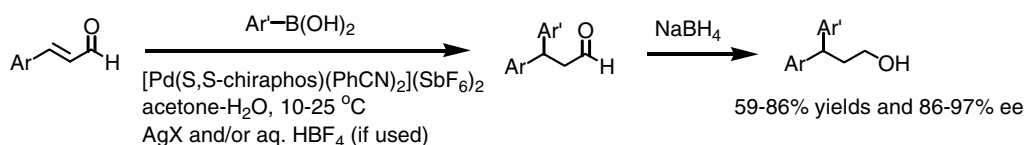
pp 4003–4005

Minsul Jang, Sayuri Hayashi, Koji Hirano, Hideki Yorimitsu\* and Koichiro Oshima\*

**Palladium(II)-catalyzed 1,4-addition of arylboronic acids to  $\beta$ -arylenals for enantioselective syntheses of 3,3-diaryllalkanals: a short synthesis of (+)-(*R*)-CDP 840**

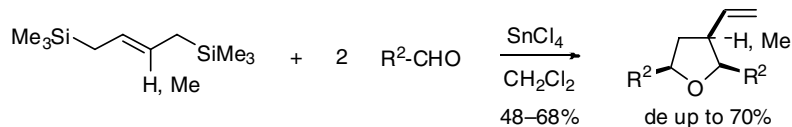
pp 4007–4010

Takashi Nishikata, Yasunori Yamamoto and Norio Miyaura\*



**Straightforward one-pot stereoselective synthesis of substituted tetrahydrofurans from 1,3-butadienes and aldehydes** pp 4011–4014

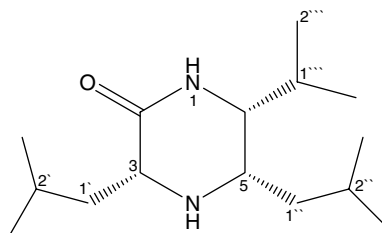
Maryline Roux, Chahinez Aouf, Jean-Luc Parrain\* and Maurice Santelli\*



**Piperazirum, a novel bioactive alkaloid from *Arum palaestinum* Boiss.**

pp 4015–4017

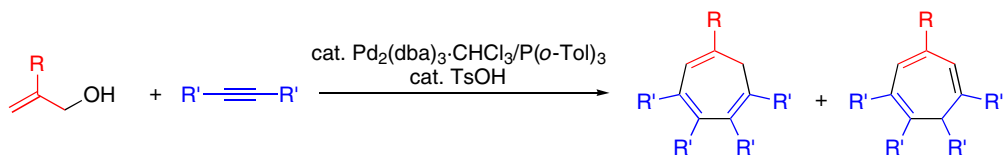
S. K. El-Desouky, Shi Young Ryu and Young-Kyoon Kim\*



**Palladium-catalyzed cycloheptatriene formation by [3+2+2] cocyclization of 2-substituted allylic alcohols and alkynes**

pp 4019–4021

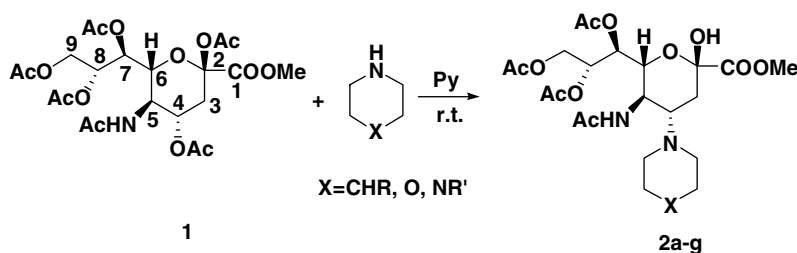
Naofumi Tsukada,\* Yuji Sakaiharu and Yoshio Inoue



**Simultaneous stereoselective 4-amination with cyclic secondary amines and 2-O-deacetylation of peracetylated sialic acid derivatives**

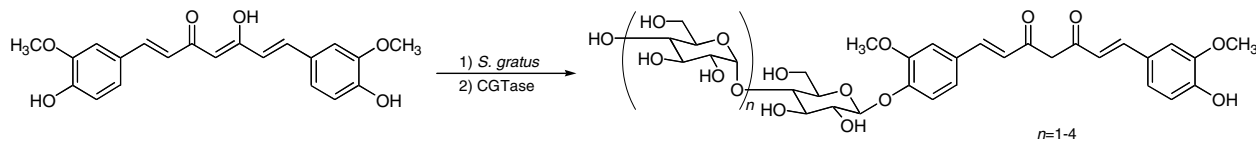
pp 4023–4027

Deju Ye, Jian Li, Jian Zhang, Hong Liu\* and Hualiang Jiang

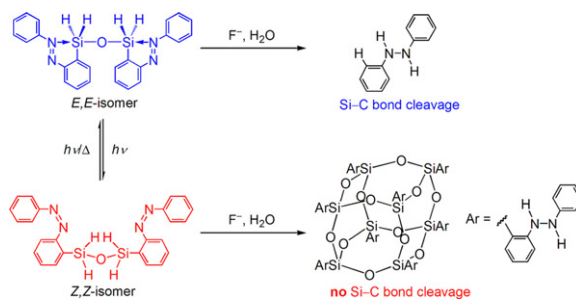


**Synthesis of curcumin  $\beta$ -maltooligosaccharides through biocatalytic glycosylation with *Strophanthus gratus* cell culture and cyclodextrin glucanotransferase** pp 4029–4032

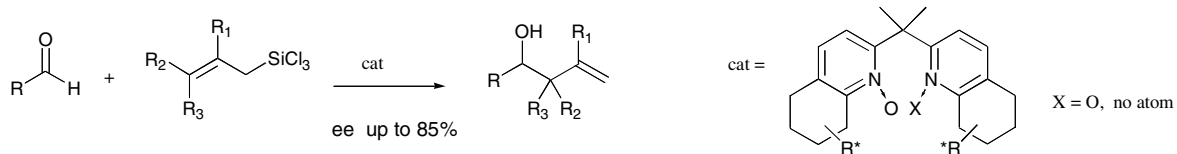
Kei Shimoda, Takafumi Hara, Hatsuyuki Hamada and Hiroki Hamada\*


**Photoswitching of the reactivity involving hydrosilylation of a 1,1,3,3-tetrahydrodisiloxane bearing two azo groups** pp 4033–4036

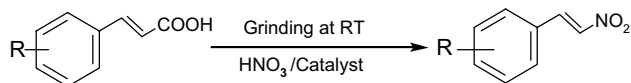
Masaki Yamamura, Naokazu Kano and Takayuki Kawashima\*


**Enantioselective allylation of aldehydes with allyltrichlorosilane promoted by new chiral dipyridylmethane N-oxides** pp 4037–4041

Giorgio Chelucci,\* Nicola Belmonte, Maurizio Benaglia\* and Luca Pignataro


**Metal nitrate driven nitro Hunsdiecker reaction with  $\alpha,\beta$ -unsaturated carboxylic acids under solvent-free conditions** pp 4043–4045

S. Ramgopal, K. Ramesh, A. Chakradhar, N. Maasi Reddy and K. C. Rajanna\*

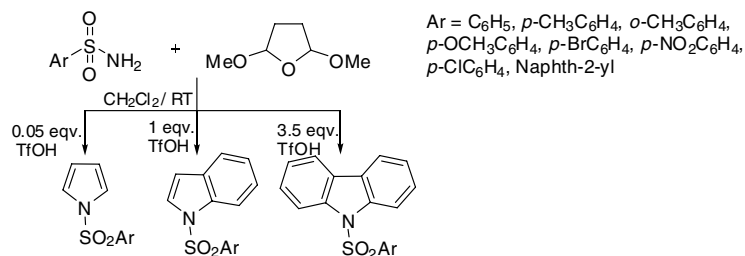


Catalyst = Mg(NO<sub>3</sub>)<sub>2</sub>, Sr(NO<sub>3</sub>)<sub>2</sub>, Al(NO<sub>3</sub>)<sub>3</sub>, Ca(NO<sub>3</sub>)<sub>2</sub>, Ni(NO<sub>3</sub>)<sub>2</sub>, Cd(NO<sub>3</sub>)<sub>2</sub>, Zn(NO<sub>3</sub>)<sub>2</sub>, Hg(NO<sub>3</sub>)<sub>2</sub>, AgNO<sub>3</sub>, ZrO(NO<sub>3</sub>)<sub>2</sub>, UO<sub>2</sub>(NO<sub>3</sub>)<sub>2</sub>, Th(NO<sub>3</sub>)<sub>2</sub> or ammonium nitrate.

### Triflic acid controlled successive annelation of aromatic sulfonamides: an efficient one-pot synthesis of *N*-sulfonyl pyrroles, indoles and carbazoles

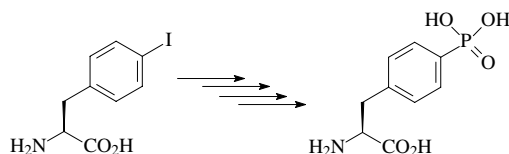
Mohammed Abid, Liliana Teixeira and Béla Török\*

One-pot synthesis of *N*-substituted heterocycles via successive cyclization/annelation starting from primary sulfonamides is described. The selection of appropriate reactant/triflic acid ratio successfully controls the formation of the desired product.



### Efficient synthesis of protected *L*-phosphonophenylalanine (Ppa) derivatives suitable for solid phase peptide synthesis

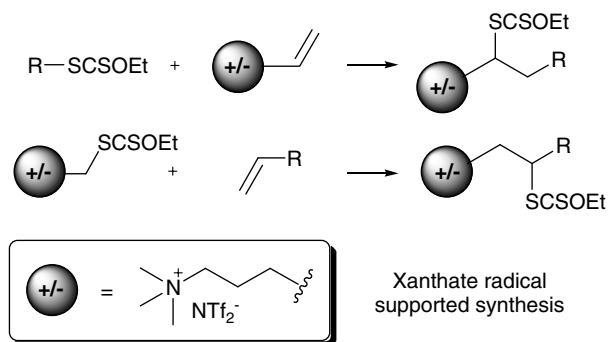
Satendra S. Chauhan,\* Arti Varshney, Bhavana Verma and Michael W. Pennington



### Task specific onium salts (TSOSs) as efficient soluble supports for Zard radical addition to olefins

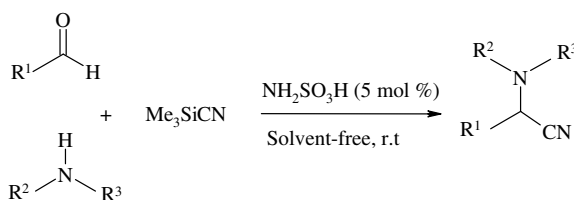
Julien Verron, Jean-Michel Joerger, Mathieu Pucheault and Michel Vaultier\*

Ammonium salts functionalised either with an olefin or a xanthate have shown to be excellent partners for supported radical additions in solution allowing for very easy purification of adducts.



### Sulfamic acid: an efficient, cost-effective and recyclable solid acid catalyst for the three-component synthesis of $\alpha$ -amino nitriles

Akbar Heydari, Samad Khaksar,\* Mehrdad Pourayoubi and Ali Reza Mahjoub

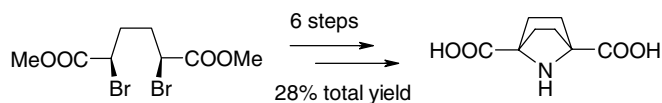


$\alpha$ -Amino nitriles are synthesized by the three-component coupling reaction of aldehydes, amines and trimethylsilyl cyanide using sulfamic acid.

**Synthesis of 7-azabicyclo[2.2.1]heptane-1,4-dicarboxylic acid, a rigid non-chiral analogue of 2-aminoadipic acid**

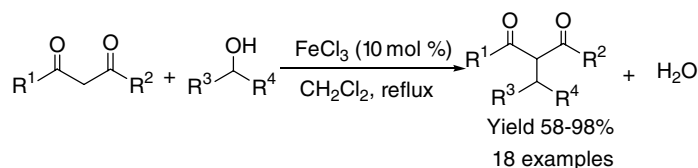
pp 4061–4063

Vladimir S. Kubyskin, Pavel K. Mikhailiuk and Igor V. Komarov\*


**A simple and efficient FeCl<sub>3</sub>-catalyzed direct alkylation of active methylene compounds with benzylic and allylic alcohols under mild conditions**

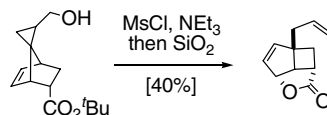
pp 4065–4069

Umasish Jana,\* Srijit Biswas and Sukhendu Maiti


**Structure dependent rearrangement of the cyclopropylmethyl cation— isolation of a bicyclo[3.2.0]heptene**

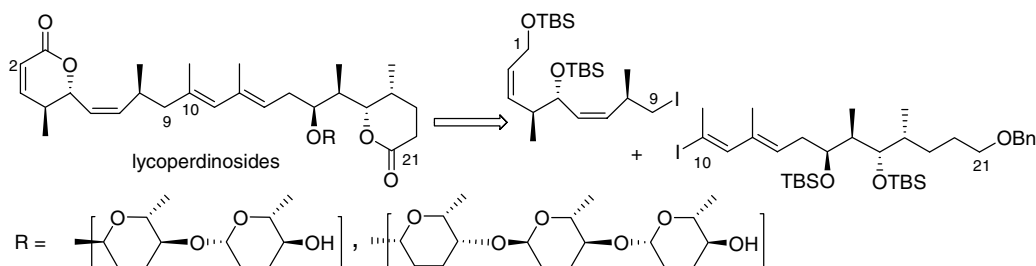
pp 4071–4074

Adam E. Nadany and John E. Mckendrick\*


**Studies directed towards the total synthesis of lycoperdinisides: stereoselective construction of the C1–C9 and C10–C21 segments of the molecules**

pp 4075–4078

Tushar Kanti Chakraborty,\* Rajib Kumar Goswami and Midde Sreekanth

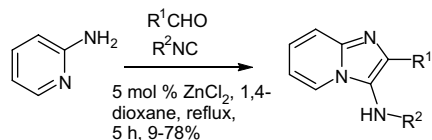




**Multicomponent synthesis of imidazo[1,2-*a*]pyridines using catalytic zinc chloride**

pp 4079–4082

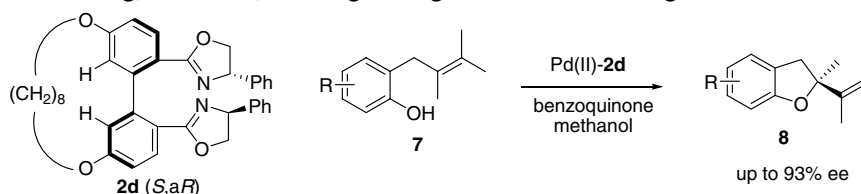
Amanda L. Rousseau,\* Pulane Matlaba and Christopher J. Parkinson



**Atropisomeric bisoxazoline ligands with a bridge across the 5,5'-position of biphenyl for asymmetric catalysis**

pp 4083–4086

Feijun Wang, Yong Jian Zhang, Hao Wei, Jiaming Zhang and Wanbin Zhang\*



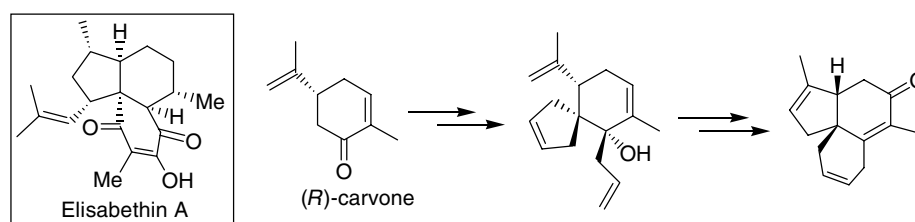
A new family of atropisomeric bisoxazoline ligands **2** with a bridge across the 5,5'-position of biphenyl has been developed. The axial chirality of this type of ligands can be retained by macro-ring strain produced by 5,5'-linkage of biphenyls even without 6,6'-substituents on biphenyls. The Pd(II)-**2d** complex as catalyst showed high catalytic activity and enantioselectivity for asymmetric Wacker-type cyclization of allylphenols.



**A rapid enantiospecific synthesis of the (6,6,5)-tricyclic ring system of the elisabethane diterpenes**

pp 4087–4090

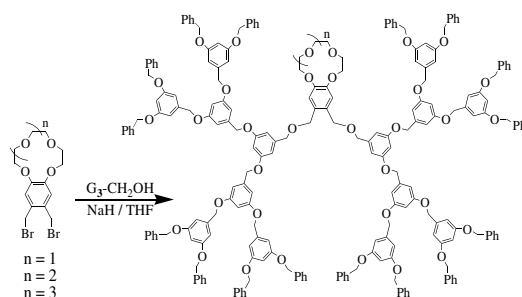
A. Srikrishna,\* Vijendra H. Pardeshi and G. Satyanarayana



**Searching for new host compounds: synthesis and characterization of novel crown ether-functionalized dendrimers**

pp 4091–4095

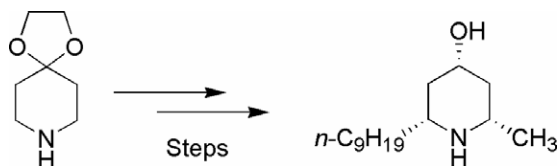
Dimitrios Alivertis, Vassiliki Theodorou, Georgios Paraskevopoulos and Konstantinos Skobridis\*



**Anodic cyanation of C-4 hydroxylated piperidines: total synthesis of (±)-alkaloid 241D**

pp 4097–4099

Nicolas Girard and Jean-Pierre Hurvois\*

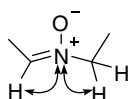


A stereoselective synthesis of dendrobates (±)-alkaloid 241D is described. Key steps involve the stepwise electrochemical elaboration of C-4 hydroxylated  $\alpha$ -aminonitriles, which were alkylated with iodomethane and 1-bromononane, respectively.

 **$^1\text{H}$ - $^{15}\text{N}$  HMBC as a valuable tool for the identification and characterization of nitrones**

pp 4101–4104

Ignacio Delso and Tomas Tejero\*

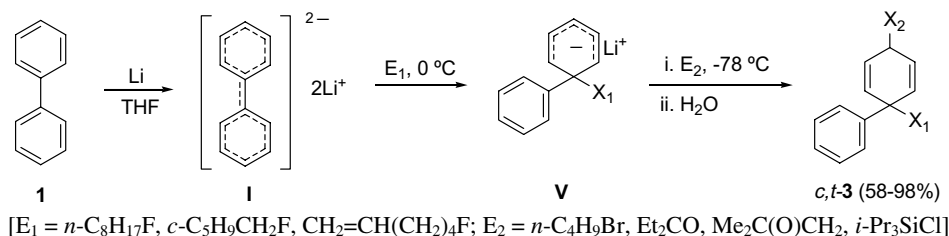


$^1\text{H}$ - $^{15}\text{N}$  HMBC provides an efficient and high-speed method for the identification and characterization of aromatic nitrones.

**Reductive dearomatization of biphenyl: sequential one-pot regioselective introduction of two different electrophiles**

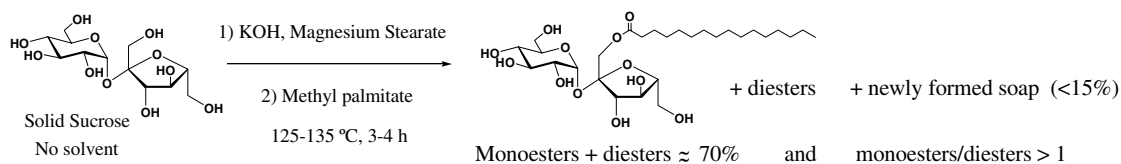
pp 4105–4109

Cristóbal Melero, Henoc Pérez, Albert Guijarro\* and Miguel Yus\*

**Co-melting of solid sucrose and multivalent cation soaps for solvent-free synthesis of sucrose esters**

pp 4111–4114

Juliette Fitremann,\* Yves Queneau, Jean-Paul Maître and Alain Bouchu

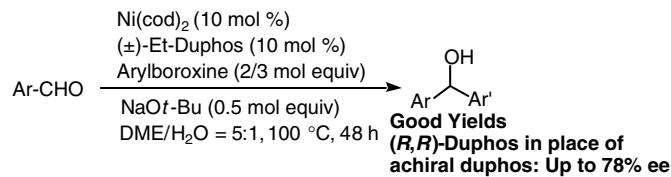


Sucrose co-melted with multivalent cation soap  $\rightleftharpoons$  **Homogeneous kinetics, higher monoesters yields, lower degradation**

**Nickel-catalyzed 1,2-addition of arylboroxines to aromatic aldehydes**

pp 4115–4117

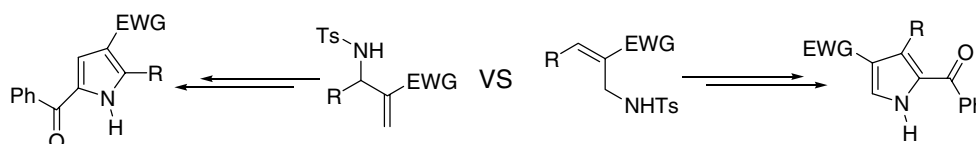
Takafumi Arao, Kazuhiro Kondo\* and Toyohiko Aoyama\*



**Synthesis of poly-substituted pyrroles starting from the Baylis–Hillman adducts**

pp 4119–4122

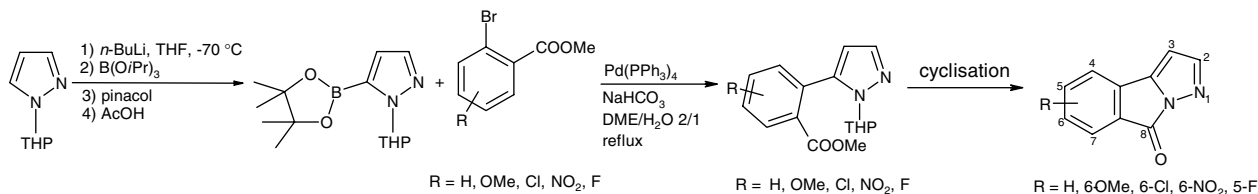
Hyun Seung Lee, Jeong Mi Kim and Jae Nyoung Kim\*



**A facile synthetic route to new pyrazoloisindolones**

pp 4123–4126

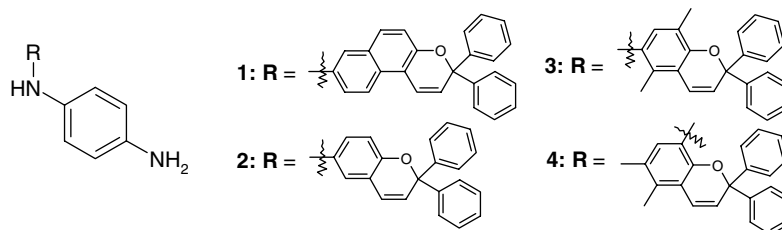
Anne-Laure Gérard, Clément Mahatsekake, Valérie Collot and Sylvain Rault\*



**Development of a convenient synthetic route to aminochromenes via Buchwald C–N coupling**

pp 4127–4130

Ekaterina A. Shilova,\* Valery P. Perevalov, André Samat and Corinne Moustrou

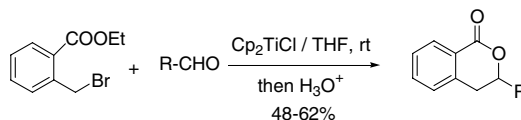


A convenient new synthetic route to *p*-aminophenylaminobenzo- and naphthopyrans was developed via palladium-catalyzed C–N coupling. It was demonstrated that novel targeted aminoderivatives reveal photochromic properties. The structure of intermediate *p*-nitrophenylaminochromenes was confirmed by X-ray crystallographic analysis.

**Radical-mediated synthesis of 3,4-dihydroisocoumarins: total synthesis of hydrangenol**

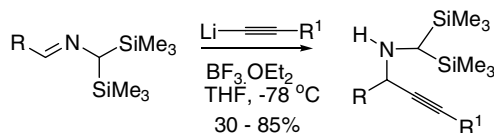
pp 4131–4134

Samir Kumar Mandal and Subhas Chandra Roy\*

**Nucleophilic alkynylation of *N*-bis(trimethylsilyl)methyl aldimines**

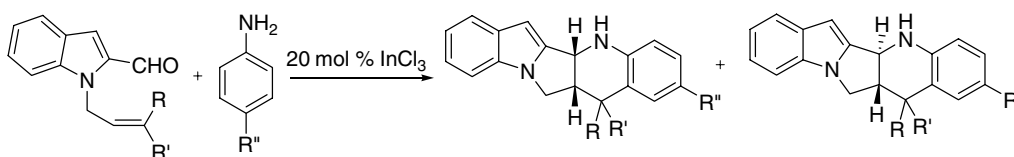
pp 4135–4138

Andrew G. H. Wee\* and Bao Zhang

**Indium trichloride catalyzed one-pot synthesis of indolo[2,1-*a*]pyrrolo[4',3':2,3]-7a,8,13,13b-tetrahydroquinolines through intramolecular imino Diels–Alder reactions**

pp 4139–4142

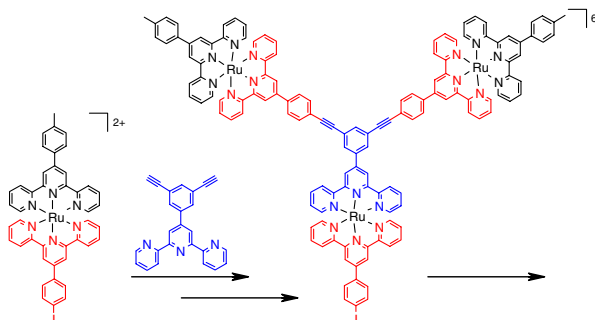
Rathna Durga R. S. Manian, Jayadevan Jayashankaran and Raghavachary Raghunathan\*

**Synthesis of valuable terpyridine building blocks to generate a variety of metallodendrons by the convergent approach**

pp 4143–4146

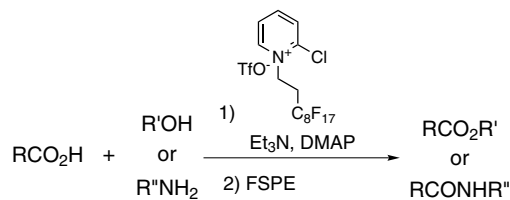
Frédéric Dumur, Cédric R. Mayer,\* Eddy Dumas, Jérôme Marrot and Francis Sécheresse

We report the synthesis of dendrons and metallodendrons bearing adapted functional pendant groups that make them valuable building blocks for the straightforward synthesis of fully conjugated metallodendrimers using the Sonogashira cross-coupling reaction.



**Preparation and condensation reactions of a new light-fluorous Mukaiyama reagent: reliable purification with fluororous solid phase extraction for esters and amides** pp 4147–4150

Masato Matsugi,\* Masakazu Hasegawa, Daisuke Sadachika, Sachina Okamoto, Mami Tomioka, Yoshimi Ikeya, Araki Masuyama and Yuji Mori




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