

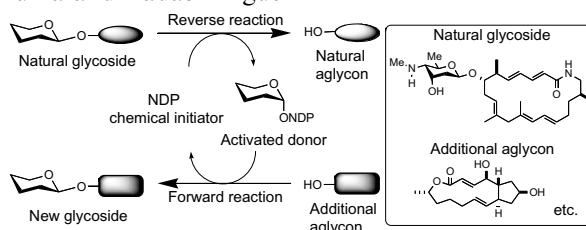
Contents

COMMUNICATIONS

Aglycon switch approach toward unnatural glycosides from natural glycoside with glycosyltransferase VinC

pp 6187–6190

Atsushi Minami, Katsumi Kakinuma and Tadashi Eguchi*

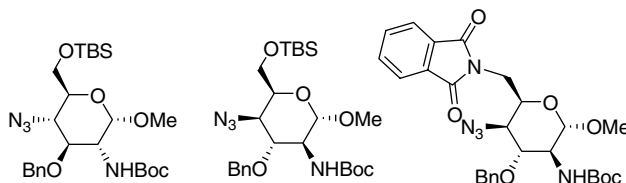


New aglycon switch approach using glycosyltransferase VinC was explored to create unnatural glycosides from natural glycoside in one-pot reaction.

Orthogonally protected carbohydrate-based scaffolds

pp 6191–6194

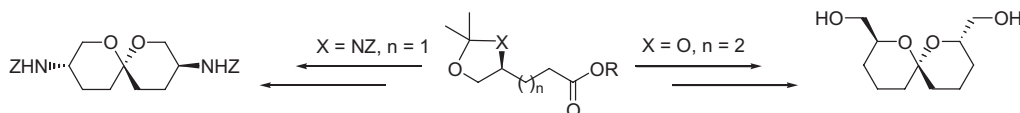
Nicolas Moitessier,* Christophe Henry, Nicolas Aubert and Yves Chapleur



Claisen self-condensation/decarboxylation as the key steps in the synthesis of C₂-symmetrical 1,7-dioxaspiro[5.5]undecanes

pp 6195–6198

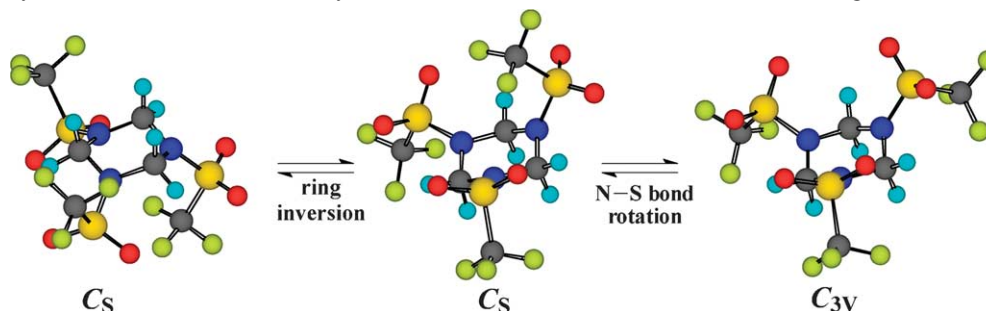
Bas Lastdrager, Mattie S. M. Timmer, Gijsbert A. van der Marel and Herman S. Overkleeft*



Stereodynamics of 1,3,5-tris(trifluoromethylsulfonyl)-1,3,5-triazinane: experimental and theoretical analysis

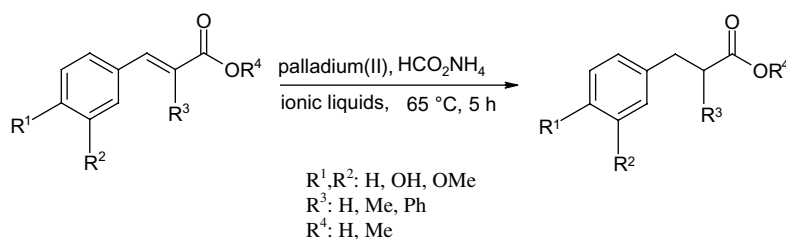
pp 6199–6201

Bagrat A. Shainyan,* Vladimir I. Meshcheryakov, Alexandr I. Albanov and Mark V. Sigalov


Application of ionic liquids in palladium(II) catalyzed homogenous transfer hydrogenation

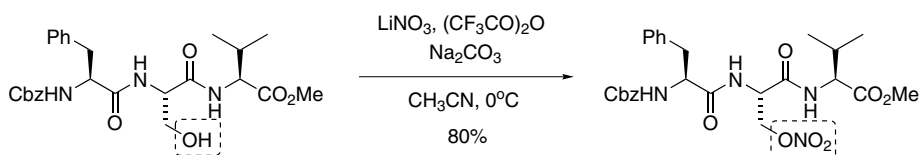
pp 6203–6204

Zoltán Baán, Zoltán Finta, György Keglevich and István Hermecz*


A convenient and simple procedure for the preparation of nitrate esters from alcohols employing $\text{LiNO}_3/(\text{CF}_3\text{CO})_2\text{O}$

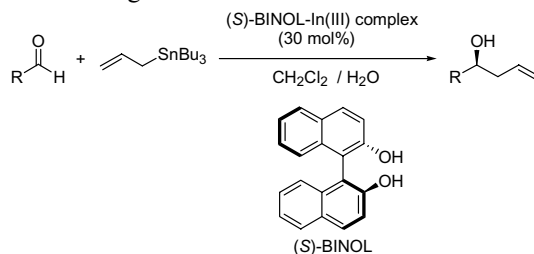
pp 6205–6207

Adina Gavrila, Lisbeth Andersen and Troels Skrydstrup*


Catalytic enantioselective allylation of aldehydes via a moisture-tolerant chiral BINOL–In(III) complex

pp 6209–6211

Yong-Chua Teo, Ee-Ling Goh and Teck-Peng Loh*



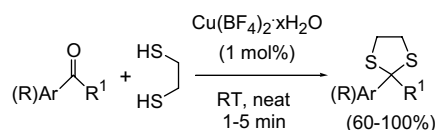
A moisture-tolerant chiral indium complex has been developed to effect good enantioselectivities in the addition of allyltributylstannanes to aldehydes. The allylation of a variety of aromatic, α,β -unsaturated and aliphatic aldehydes resulted in both moderate to good yields and high enantioselectivities (up to 86% ee).



Copper(II) tetrafluoroborate as an extremely efficient catalyst for 1,3-dithiolane/dithiane formation from carbonyl compounds under solvent-free conditions at room temperature

pp 6213–6217

Ram C. Besra, Santosh Rudrawar and Asit K. Chakraborti*

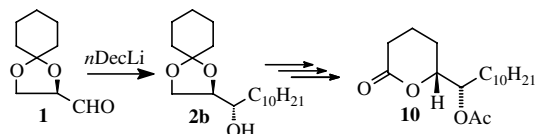


Copper(II) tetrafluoroborate catalyses 1,3-dithiolane/dithiane formation from aldehydes and ketones in high yield and in short times.

**(*R*)-2,3-Cyclohexyleneglyceraldehyde, a novel template for stereoselective preparation of functionalized δ -lactones: synthesis of mosquito oviposition pheromone**

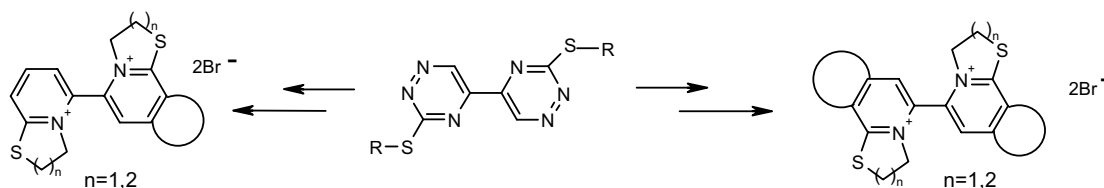
pp 6219–6221

Bhaskar Dhotare, Dibakar Goswami and Angshuman Chattopadhyay*

**A facile S-transalkylation of 2,2'-bipyridine alkyl sulfides—a new tool for the synthesis of annulated biheterocycles**

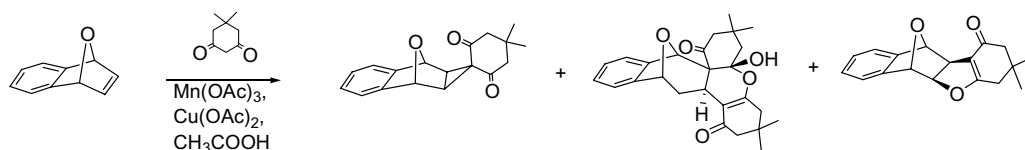
pp 6223–6226

Danuta Branowska,* Andrzej Rykowski and Waldemar Wysocki

**Unusual oxidative free-radical additions of 1,3-dicarbonyl compounds to benzonorbornadiene and oxabenzonorbornadiene**

pp 6227–6230

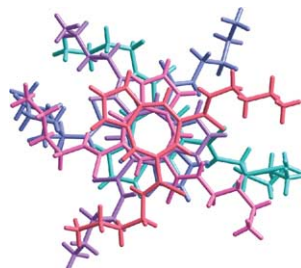
Raşit Çalışkan, Tarık Pekel, William H. Watson and Metin Balci*



The azulene moiety as a chromogenic building block for anion receptors

pp 6231–6234

Tomasz Zieliński, Mariusz Kędziorek and Janusz Jurczak*

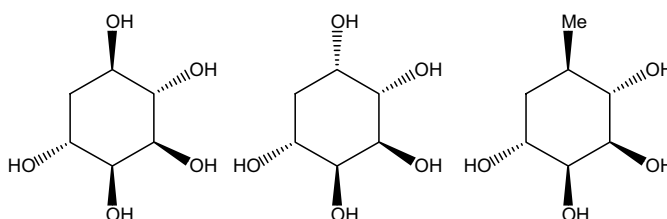


The azulene moiety has been investigated as a new building block for optical sensors for anions. Amide and thioamide azulene derivatives were synthesized and their properties as anion receptors were examined.

**Stereoselective syntheses of (+)-*proto*, (–)-*gala* quercitols and carba-L-rhamnose from D-(–)-quinic acid**

pp 6235–6238

Andiappan Murugan,* Anuj K. Yadav and Mukund K. Gurjar

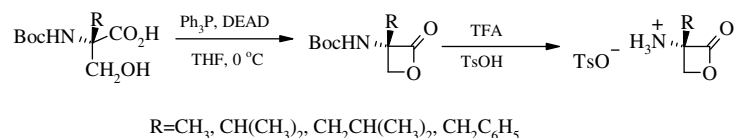


Efficient syntheses of (+)-*proto*, (–)-*gala* quercitols and carba-L-rhamnose from D-(–)-quinic acid are reported.

**An efficient synthesis of optically active 3-amino-3-alkyl-2-oxetanones**

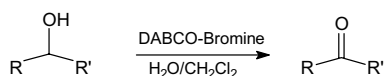
pp 6239–6241

Aleksandra Olma* and Adam Kudaj

**Synthesis, characterization and structure of a tetrameric DABCO–bromine complex: a novel oxidizing agent for oxidation of alcohols to carbonyl compounds**

pp 6243–6245

Majid M. Heravi,* Fatemeh Derikvand, Mitra Ghassemzadeh and Bernhard Neumüller



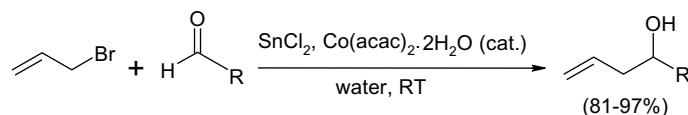
A tetrameric DABCO–bromine complex was synthesized, characterized and utilized as a novel active bromine complex for the oxidation of alcohols to carbonyl compounds.



Barbier coupling in water: SnCl_2 -mediated and $\text{Co}(\text{acac})_2$ -catalyzed allylation of carbonyls

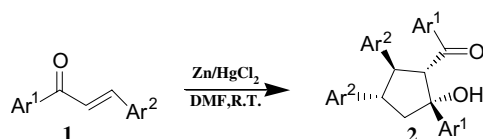
pp 6247–6251

Mihir K. Chaudhuri,* Sanjay K. Dehury and Sahid Hussain

**Zinc mediated reductive dimerization and cyclization of α,β -unsaturated ketones in the presence of a catalytic amount of mercury(II) chloride**

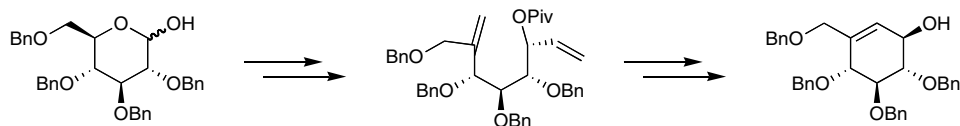
pp 6253–6255

Kamal. K. Kapoor,* Satish Kumar and Bilal A. Ganai

**Formal synthesis of valienamine using ring-closing metathesis**

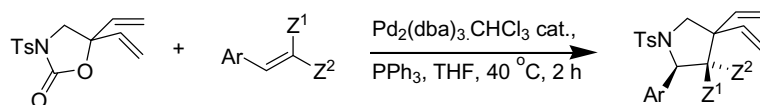
pp 6257–6259

Ian Cumpstey

**Synthesis of highly substituted pyrrolidines via palladium catalysed formal [2+3] cycloaddition of 5-vinyloxazolidin-2-ones to activated alkenes**

pp 6261–6264

Julian G. Knight,* Kirill Tchabanenko, Paul A. Stoker and Simon J. Harwood

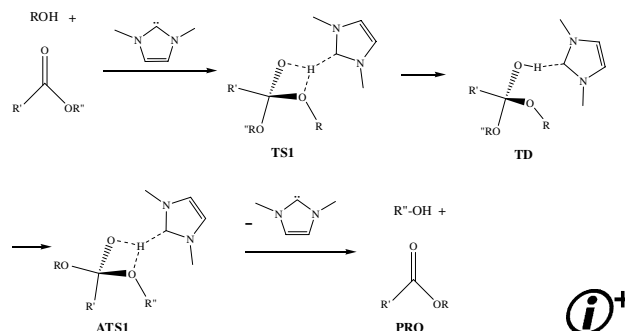


Theoretical study on the mechanism of *N*-heterocyclic carbene catalyzed transesterification reactions

pp 6265–6270

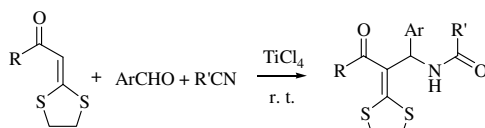
Chun-Liang Lai, Hon Man Lee and Ching-Han Hu*

The mechanism of *N*-heterocyclic carbene (NHC) catalyzed transesterification reactions have been studied using density functional theory. The role of NHC in catalysis is to assist proton transfer from alcohol to the carbonyl oxygen, forming the tetrahedral intermediate, which then decomposes to the acylated product.


One-pot synthesis of aza-Morita–Baylis–Hillman adducts from α -oxo ketene-*S,S*-acetals, arylaldehydes and nitriles

pp 6271–6274

Shaoguang Sun, Qian Zhang,* Qun Liu,* Jing Kang, Yanbing Yin, Dongwei Li and Dewen Dong

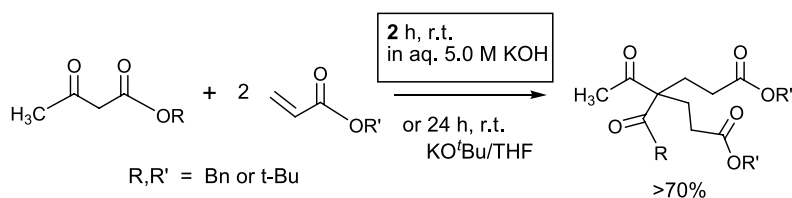


Promoted by TiCl_4 , a series of α -(1,3-dithiolan-2-ylidene)- β -amino carbonyl derivatives—the aza-Morita–Baylis–Hillman adducts, have been synthesized in one-pot from α -oxo cyclic ketene-*S,S*-acetals, arylaldehydes, and nitriles in good to excellent yields.

Michael addition reactions of acetoacetates and malonates with acrylates in water under strongly alkaline conditions

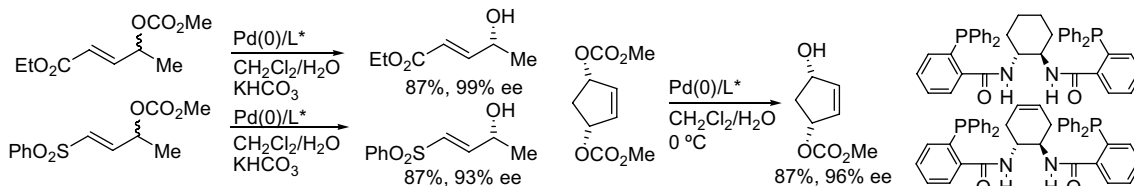
pp 6275–6277

Michiko Iwamura,* Yuka Gotoh, Tomoyuki Hashimoto and Reiko Sakurai


Palladium-catalyzed asymmetric synthesis of allylic alcohols from unsymmetrical and symmetrical racemic allylic carbonates featuring C–O-bond formation and dynamic kinetic resolution

pp 6279–6283

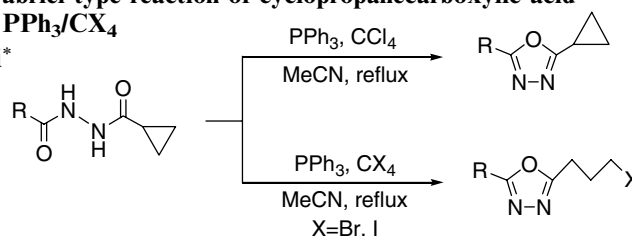
Hans-Joachim Gais,* Oleg Bondarev and Ralf Hetzer



Halogen effects in Robinson–Gabriel type reaction of cyclopropanecarboxylic acid *N'*-substituted-hydrazides with PPh₃/CX₄

pp 6285–6288

Yong-Hua Yang and Min Shi*



R could be various substituted aryl and aliphatic groups.

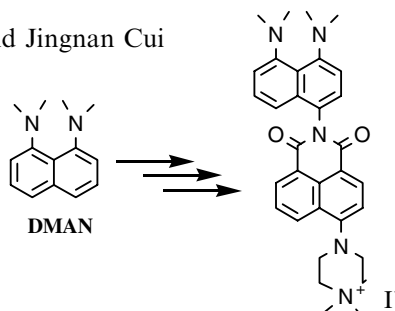
Halogen effects were described in the Robinson–Gabriel type reaction of cyclopropanecarboxylic acid *N'*-substituted-hydrazides with PPh₃/CX₄ (X = Cl, Br, I). Cyclopropyl-5-substituted-[1,3,4]oxadiazole (**2**) and 2-(3-halopropyl)-5-substituted-[1,3,4]oxadiazoles (**4** or **5**) were obtained, respectively.



A proton sponge-based fluorescent switch

pp 6289–6292

Yi Xiao,* Meiyang Fu, Xuhong Qian* and Jingnan Cui

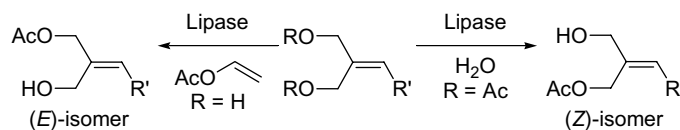


The fluorescent switch based on proton sponge exhibited significant fluorescence enhancement upon binding the low-concentration protons in high pH aqueous solution.

Highly regioselective lipase-catalyzed acetylation and hydrolysis of acyclic α,α' -alkenediols and their diacetates

pp 6293–6295

Takaya Hisano, Kotoko Onodera, Yasuhiro Toyabe, Nobuyuki Mase, Hidemi Yoda and Kunihiro Takabe*

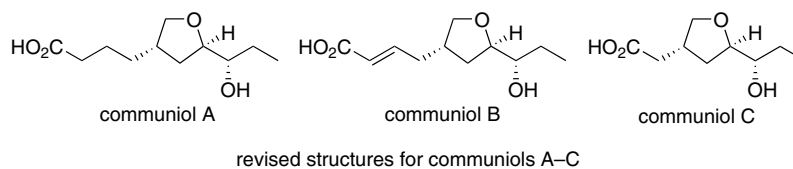


Transformation of acyclic α,α' -alkenediols and corresponding diacetates to the monoacetates using lipase was accomplished with high regioselectivity.

Enantioselective synthesis and stereochemical revision of communiols A–C

pp 6297–6300

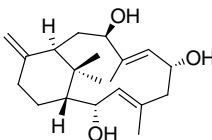
Shigefumi Kuwahara* and Masaru Enomoto



A novel 3,8-*seco*-taxane metabolite from the seeds of the Chinese yew, *Taxus mairei*

pp 6301–6303

Qing-Wen Shi, Li-Geng Li, Zuo-Ping Li, Cong-Mei Cao and Hiromasa Kiyota*

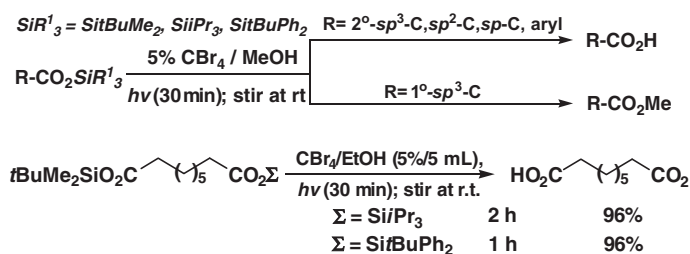


A novel 3,8-*seco*-bicyclic taxanoid metabolite, (11 α H)-3,8-*seco*-taxa-3*E*,7*E*,12(18)-triene-2 α ,6 α ,9 β -triol, was isolated from the seeds of the Chinese yew, *Taxus mairei*.

Solvent-modulated chemoselective deprotections of trialkylsilyl esters and chemoselective esterifications

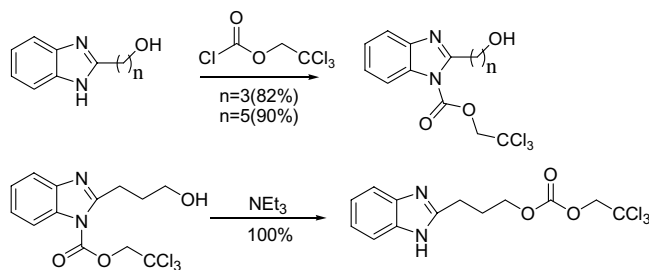
pp 6305–6309

Adam Shih-Yuan Lee* and Feng-Yih Su


Selective nitrogen protection of hydroxyalkylbenzimidazoles using 2,2,2-trichloroethylchloroformate

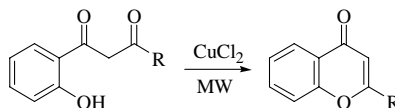
pp 6311–6313

Richard C. Woudenberg and E. Bryan Coughlin*


Microwave-assisted synthesis of functionalized flavones and chromones

pp 6315–6317

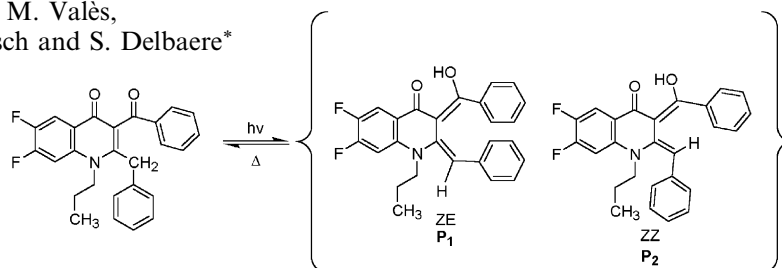
George W. Kabalka* and Arjun R. Mereddy



A facile microwave-assisted synthesis of functionalized flavones and chromones via the cyclization of 1-(2-hydroxyaryl)-3-aryl-1,3-propanedione is described.

NMR structural elucidation of photochromic quinolone photoproducts

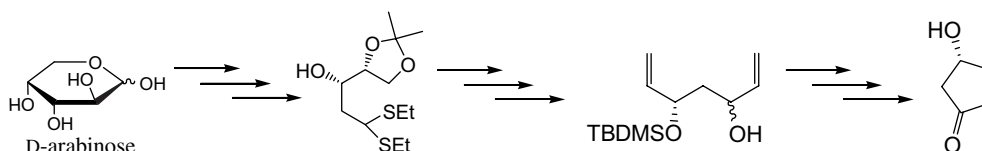
pp 6319–6324

J. Berthet, V. Lokshin, M. Valès,
A. Samat, G. Vermeersch and S. Delbaere*

Two photoenols (P_1 and P_2) were produced after UV irradiation of initial quinolone P_0 . In addition to reversible photoenolisation, non-desired photoreactions also occurred to cause photodegradation. The structural identification of each photoproduct was obtained on the basis of NMR spectra.

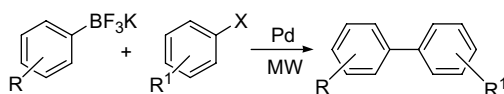
**A new synthetic approach for 4(S)-hydroxycyclopent-2-enone: a precursor to prostanoid synthesis**

pp 6325–6328

Chih-Tsung Chang, Sheila H. Jacobo, William S. Powell, John A. Lawson, Garret A. FitzGerald,
Domenico Pratico and Joshua Rokach***Microwave enhanced cross-coupling reactions involving potassium organotrifluoroborates**

pp 6329–6331

George W. Kabalka* and Mohammad Al-Masum

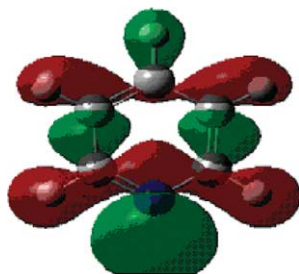


Palladium catalyzed coupling reactions of potassium aryltrifluoroborates with aryl iodides occur rapidly utilizing microwave irradiation. The coupled products are produced in excellent yields.

Electrophilic substitutions and HOMOs in azines and purines

pp 6333–6336

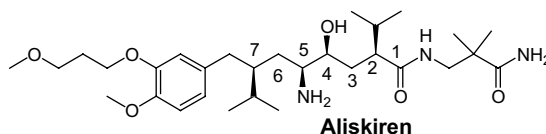
Maurizio D'Auria



Practical synthesis of an orally active renin inhibitor aliskiren

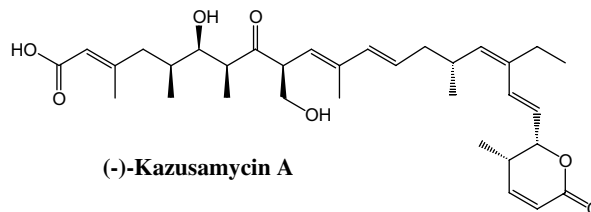
pp 6337–6340

Hua Dong, Zhi-Liu Zhang, Jia-Hui Huang, Rujian Ma,* Shu-Hui Chen and Ge Li

**A practical synthesis of (–)-kazusamycin A**

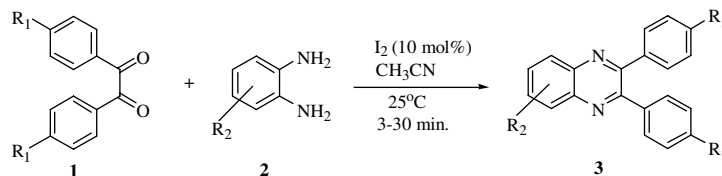
pp 6341–6344

Shengfeng Zhou, Huaxiang Chen, Wensheng Liao,* Shu-Hui Chen, Ge Li, Ryoichi Ando and Isao Kuwajima

**Molecular iodine: a powerful catalyst for the easy and efficient synthesis of quinoxalines**

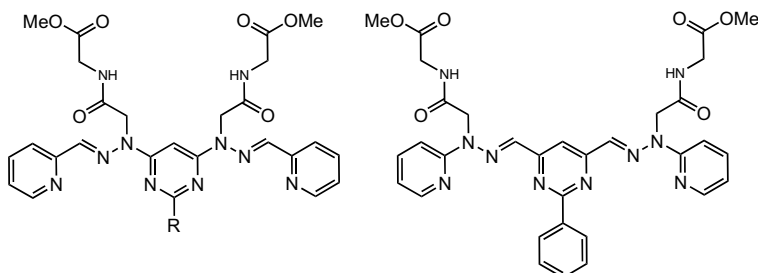
pp 6345–6348

Shivaji V. More, M. N. V. Sastry, Chieh-Chieh Wang and Ching-Fa Yao*

**Synthesis of side-chain functionalised ligands for the generation of quartet receptor arrays via self-assembly of [2×2] grid complexes**

pp 6349–6353

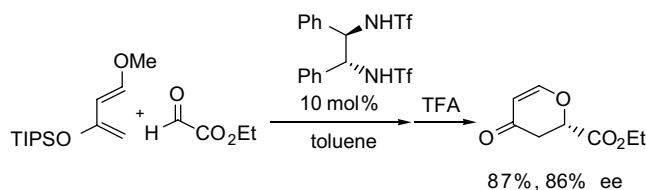
Patrick Tielmann, Axel Marchal and Jean-Marie Lehn*



Chiral bis-trifluoromethanesulfonylamine as a chiral Brønsted acid catalyst for the asymmetric hetero Diels–Alder reaction with Danishefsky's diene

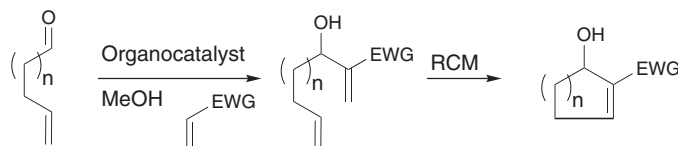
pp 6355–6358

Takayuki Tono and Koichi Mikami*

**Intramolecular Morita–Baylis–Hillman adducts via sequential MBH and ring-closing-metathesis reactions**

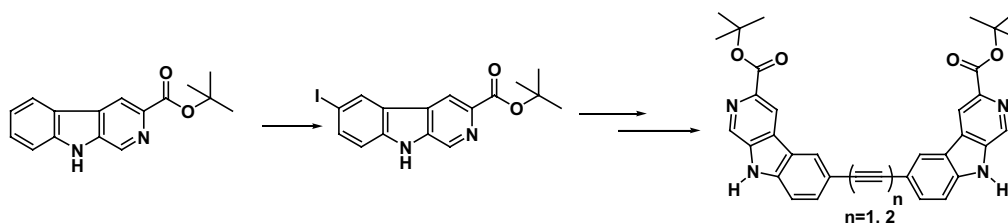
pp 6359–6362

Marie E. Krafft,* Eun-Ho Song and Ryan J. Davoile

**Synthesis of bivalent ligands of β -carboline-3-carboxylates via a palladium-catalyzed homocoupling process**

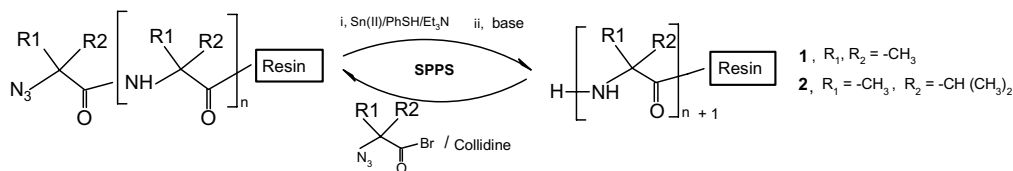
pp 6363–6368

Wenyuan Yin, P. V. V. Srirama Sarma, Jun Ma, Dongmei Han, Jessica L. Chen and James M. Cook*

**Amino acid bromides: their utilization for difficult couplings in solid-phase peptide synthesis**

pp 6369–6371

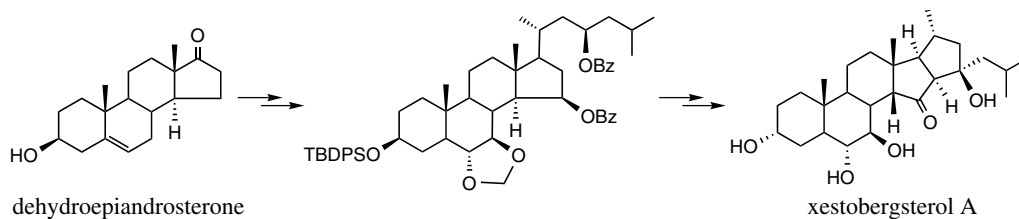
Minghong Ni, Emiliano Esposito, Bernard Kaptein, Quirinus B. Broxterman and Alma Dal Pozzo*



Synthesis of xestobergsterol A from dehydroepiandrosterone

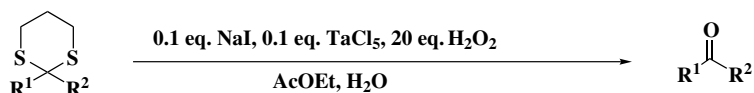
pp 6373–6376

Atsuko Nakamura, Yuko Kaji, Kana Saida, Michiko Ito, Yumi Nagatoshi, Noriyuki Hara and Yoshinori Fujimoto*

**Deprotection of dithioacetals using the tantalum(V) chloride catalyzed oxidation of iodide ion by hydrogen peroxide**

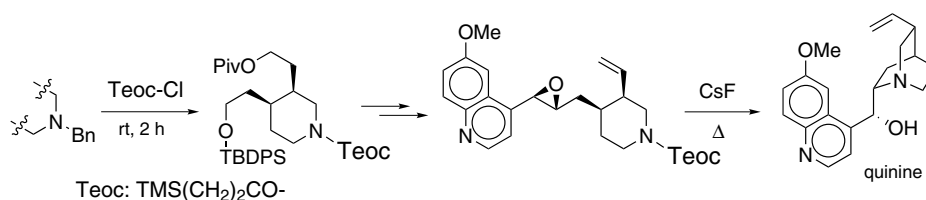
pp 6377–6380

Masayuki Kiriara,* Aiko Harano, Hiroyuki Tsukiji, Ryu Takizawa, Tomoyuki Uchiyama and Akihiko Hatano

**Improved synthesis of quinine alkaloids with the Teoc protective group**

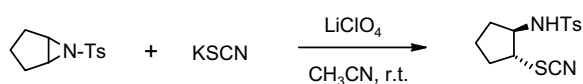
pp 6381–6384

Junji Igarashi and Yuichi Kobayashi*

**Lithium perchlorate-catalyzed regioselective ring-opening of aziridines with potassium thiocyanate**

pp 6385–6387

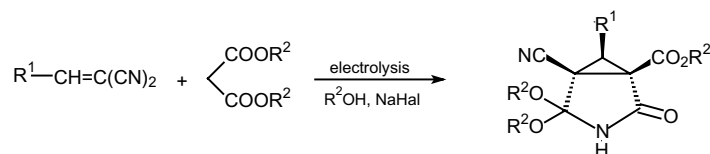
J. S. Yadav,* B. V. Subba Reddy, B. Jyothirmmai and M. S. R. Murty



Stereoselective electrocatalytic transformation of arylidene- or alkylidenemalononitriles and malonate into alkyl (1*R*,5*R*,6*R*)* 6-substituted 5-cyano-4,4-dialkoxy-2-oxo-3-azabicyclo-[3.1.0]hexane-1-carboxylates

pp 6389–6393

Michail N. Elinson,* Sergey K. Feducovich, Zoya A. Starikova, Anatolii N. Vereshchagin, Sergey V. Gorbunov and Gennady I. Nikishin

**OTHER CONTENTS**

Contributors to this issue
Instructions to contributors

p I
pp III–VI

*Corresponding author

①⁺ Supplementary data available via ScienceDirect

COVER

Family of aromatic building blocks for anion receptors has been extended by the azulene. Amide and thioamide derivatives in the seven-membered ring of the azulene were synthesized, and their affinity towards anions and structural preferences are described. The front cover shows the top view of a supramolecular helix formed by the thioamide. *Tetrahedron Letters* **2005**, 46, 6231–6234.

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ISSN 0040-4039