

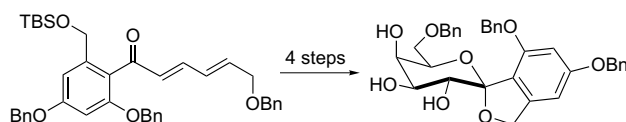
Contents

COMMUNICATIONS

De novo synthesis of a *galacto*-papulacandin moiety via an iterative dihydroxylation strategy

pp 4151–4155

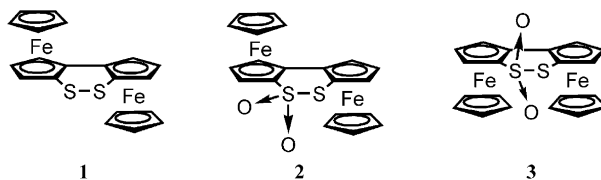
Md. Moinuddin Ahmed and George A. O'Doherty*



Synthesis, structure, and electrochemical properties of biferrocenes annulated with 1,2-dithiin and 1,2-dithiin 1,1-dioxides

pp 4157–4160

Noriyoshi Nagahora, Satoshi Ogawa,* Yasushi Kawai and Ryu Sato*

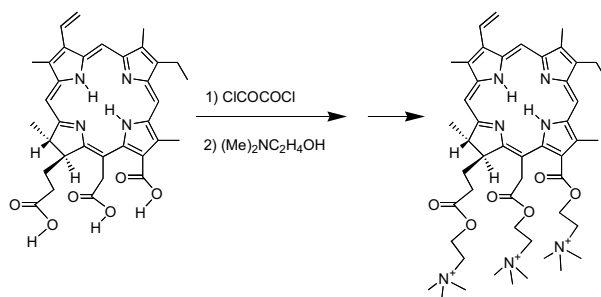


Three new biferrocenes annulated with 1,2-dithiin (**1**) and 1,2-dithiin 1,1-dioxides (**2**) and (**3**) were successfully synthesized in satisfactory yields by the reaction of 2,2''-bis(*N,N*-dimethylaminosulfonyl)-1,1''-biferrocene with lithium aluminum hydride followed by treatment with chlorotrimethylsilane. The electrochemical properties of the biferrocenes (**1**)–(**3**) were furnished by cyclic and differential pulse voltammetries.

Synthesis of cationic water-soluble esters of chlorin *e*₆

pp 4161–4164

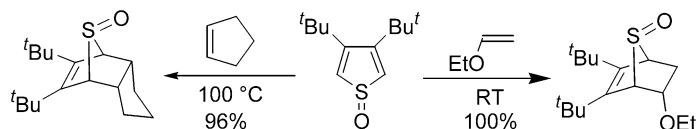
Hidetoshi Taima, Akihiro Okubo, Naoki Yoshioka and Hidenari Inoue*



***syn*- π -Face- and *endo*-selective, inverse electron-demand Diels–Alder reactions of 3,4-di-*tert*-butylthiophene 1-oxide with electron-rich dienophiles**

pp 4165–4169

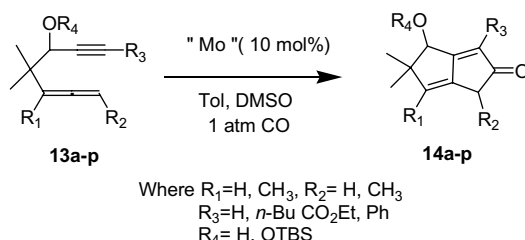
Jun Takayama, Yoshiaki Sugihara, Toshiyuki Takayanagi and Juzo Nakayama*



The exclusive formation of cyclopentenones from molybdenum hexacarbonyl-catalyzed Pauson–Khand reactions of 5-allenyl-1-ynes

pp 4171–4174

Arun Kumar Gupta, Dai In Park and Chang Ho Oh*

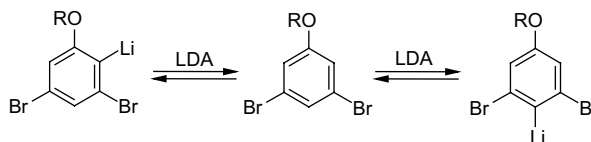


The exclusive formation of cyclopentenones was observed in molybdenum hexacarbonyl catalyzed Pauson–Khand reactions of 1,6-allenyne under 1 atm of CO (balloon) in excellent yields.

A study on the metalation of alkoxydibromobenzenes

pp 4175–4178

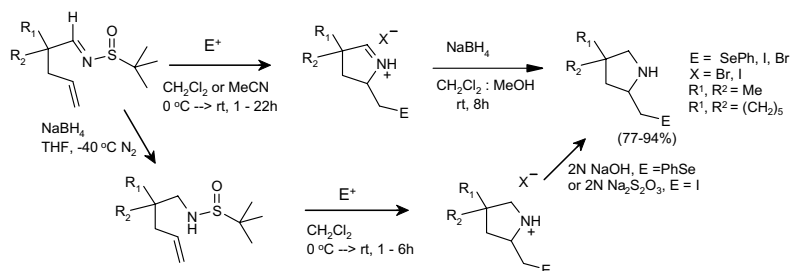
Marek Dąbrowski, Joanna Kubicka, Sergiusz Luliński and Janusz Serwatowski*



A sequence of electrophile induced cyclisation and concomitant *N*-deprotection of alkenylsulfinimines and alkenylsulfonamides as a direct route to cyclic or spirocyclic imines, pyrrolidines and piperidines

pp 4179–4182

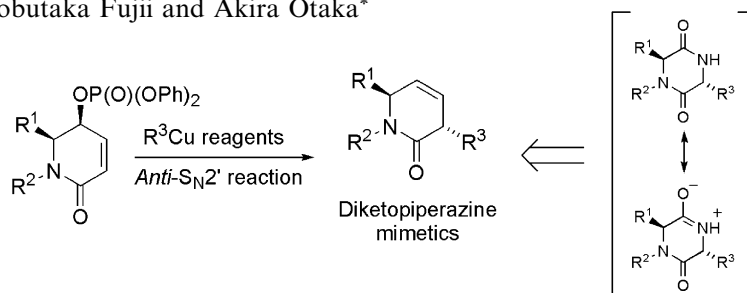
H. Ali Dondas and Norbert De Kimpe*



Facile access to (*Z*)-alkene-containing diketopiperazine mimetics utilizing organocopper-mediated *anti*-S_N2' reactions

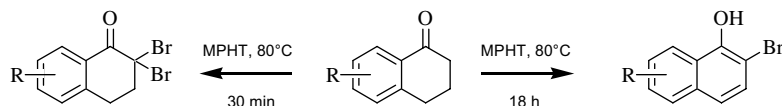
pp 4183–4186

Ayumu Niida, Shinya Oishi, Yoshikazu Sasaki, Makiko Mizumoto, Hirokazu Tamamura, Nobutaka Fujii and Akira Otake*

***N*-Methylpyrrolidin-2-one hydrotribromide (MPHT) a mild reagent for selective bromination of carbonyl compounds: synthesis of substituted 2-bromo-1-naphtols**

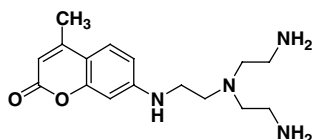
pp 4187–4191

Alain Bekaert, Olivier Provot,* Olimihamina Rasolojaona, Mouâd Alami* and Jean-Daniel Brion

**Synthesis and photophysical properties of a fluorescent TREN-type ligand incorporating the coumarin chromophore and its zinc complex**

pp 4193–4196

Marianna Dakanali, Emmanuel Roussakis, Alan R. Kay and Haralambos E. Katerinopoulos*

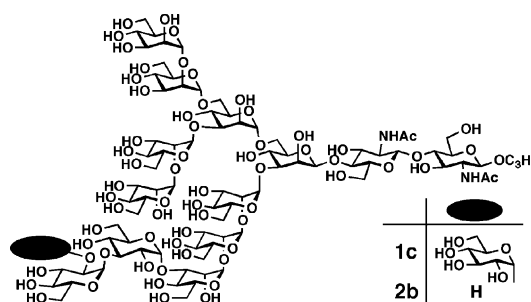


A new, UV-excited, fluorescent Zn²⁺ indicator was synthesized and the spectral profile of its free and Zn²⁺ bound forms was studied. The fluorescent properties of this probe are due to the 7-amino-4-methylcoumarin fluorophore, which is conjugated with the tris(2-aminoethyl)amine (TREN) that functions as the zinc-chelating moiety.

First chemical synthesis of triglucosylated tetradecasaccharide (Glc₃Man₉GlcNAc₂), a common precursor of asparagine-linked oligosaccharides

pp 4197–4200

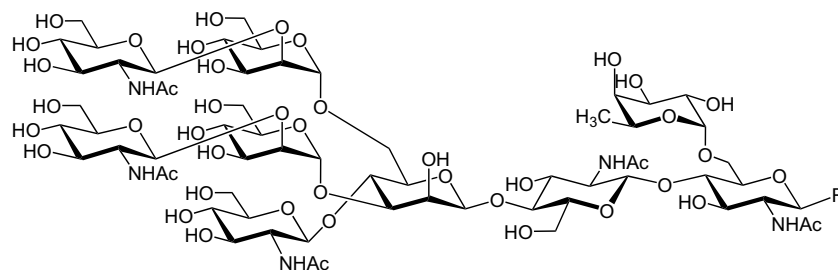
Ichiro Matsuo, Toshinori Kashiwagi, Kiichiro Totani and Yukishige Ito*



Synthesis of a *N*-glycan nonasaccharide of the bisecting type with additional core-fucose

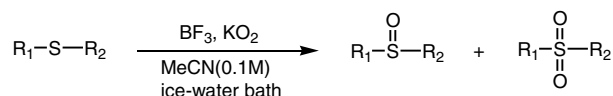
pp 4201–4204

Ralf Schuberth and Carlo Unverzagt*

**Activation of superoxide by boron trifluoride: chemoselective and efficient oxidation of sulfides to sulfoxides via tetrafluorodiboronperoxide**

pp 4205–4208

Yao-Jung Chen* and Jiun-Yi Shen

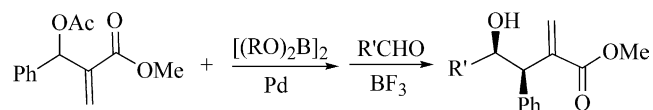


Activation of superoxide with BF_3 can facilitate highly chemoselective and efficient oxidation of sulfides to sulfoxides in 5 m with excellent yields and without any interference in the presence of ketone, olefin, ether, and hydroxyl functionalities.

Baylis–Hillman chemistry: a one pot cross-coupling/allylboration reaction

pp 4209–4211

George W. Kabalka,* Bollu Venkataiah and Gang Dong

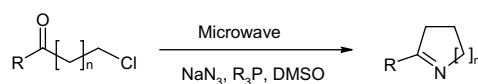


A one pot sequential cross-coupling/allylboration is described. Baylis–Hillman acetate adducts couple with bis(pinacolato)diboron to form substituted allylboronates, which react with aldehydes in the presence of a silica supported BF_3 catalyst to form highly functionalized homoallylic alcohols in excellent yields.

An efficient one-pot synthesis of pyrrolines and tetrahydropyridines from their chloro-precursors via in situ aza-Wittig reaction

pp 4213–4217

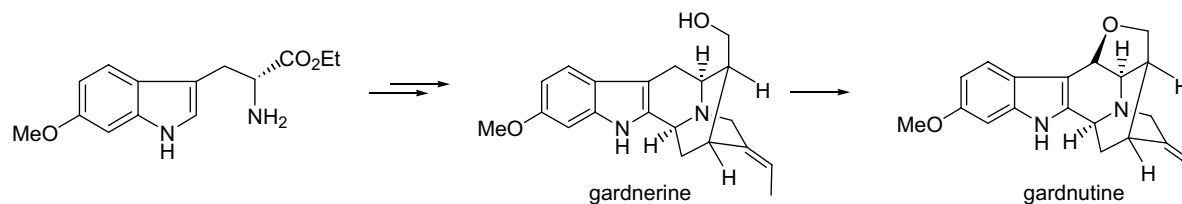
Pradeep N. D. Singh, Rodney F. Klima, Sivaramakrishnan Muthukrishnan, Rajesh S. Murthy, Jagadis Sankaranarayanan, Heidi M. Stahlecker, Bhavika Patel and Anna D. Gudmundsdóttir*



First regiospecific, enantiospecific total synthesis of gardnerine and gardnutine

pp 4219–4224

Hao Zhou, Dongmei Han, Xuebin Liao and James M. Cook*

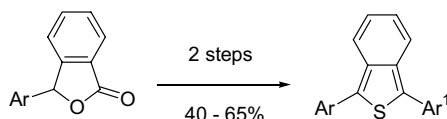


The first enantiospecific total synthesis of gardnerine and gardnutine has been achieved from 6-methoxy-D-tryptophan via the asymmetric Pictet–Spengler reaction, a stereocontrolled intramolecular enolate driven palladium-mediated cross-coupling reaction and a chemospecific, regiospecific hydroboration/oxidation sequence as key steps.

Synthesis of 1,3-diaryl benzo[*c*]thiophenes

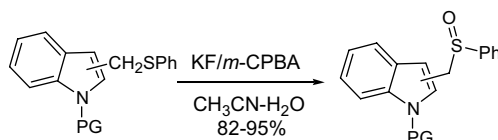
pp 4225–4229

Arasambattu K. Mohanakrishnan* and P. Amaladass

**An efficient preparation of 1-phenylsulfonylindolyl methyl sulfoxides using KF/*m*-CPBA**

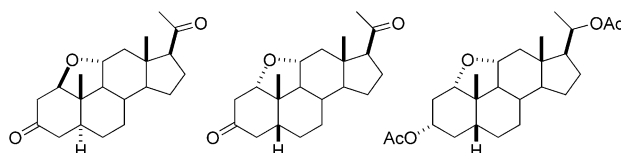
pp 4231–4233

Arasambattu K. Mohanakrishnan* and Neelamegam Ramesh

**Synthesis of C(1)–C(11) oxygen-bridged pregnanes**

pp 4235–4238

Adriana S. Veleiro, Paula J. Taich, Lautaro D. Alvarez, Pablo H. Di Chenna and Gerardo Burton*

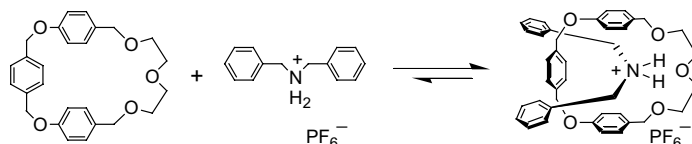


1,11-Epoxysteroids are obtained using a remote functionalization reaction of 11 α -hydroxy-pregnanes with visible light in the presence of diacetoxyiodobenzene and iodine.

A new macrocycle that forms pseudorotaxane-like complexes with dibenzylammonium ions

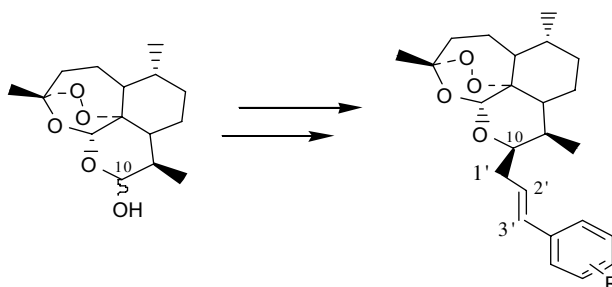
pp 4239–4242

Pin-Nan Cheng, Wei-Chung Hung and Sheng-Hsien Chiu*

**A new route to novel 10-deoxoartemisinins**

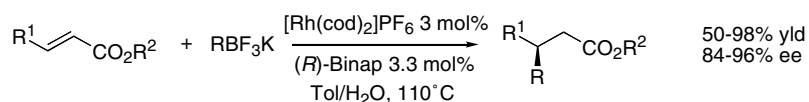
pp 4243–4245

Vu Tran Khac,* Viet Nguyen Van and Tuyen Nguyen Van

**Potassium trifluoro(organo)borates in rhodium-catalyzed 1,4-additions to α,β -unsaturated esters**

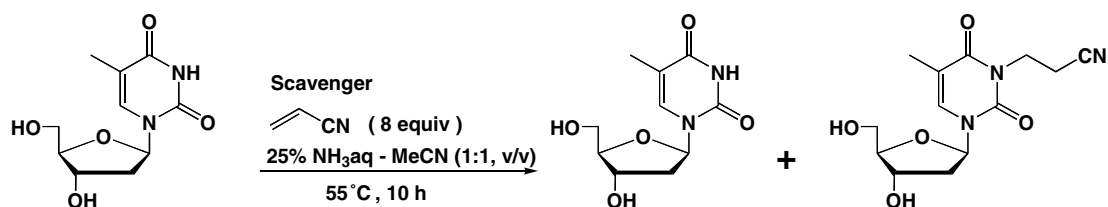
pp 4247–4250

Laure Navarre, Mathieu Pucheault, Sylvain Darses* and Jean-Pierre Genet*

**Nitromethane as a scavenger of acrylonitrile in the deprotection of synthetic oligonucleotides**

pp 4251–4253

Tadashi Umemoto and Takeshi Wada*

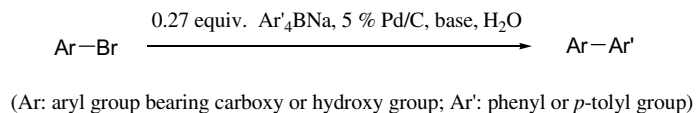


A new procedure for deprotection of synthetic oligonucleotides to prevent nucleobase alkylation.

Palladium charcoal-catalyzed, ligandless Suzuki reaction by using tetraarylbates in water

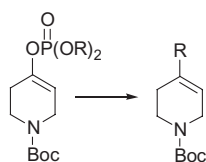
pp 4255–4259

Gang Lu, Robert Franzén, Qian Zhang and Youjun Xu*

**Synthesis of 4-substituted tetrahydropyridines by cross-coupling of enol phosphates**

pp 4261–4263

Uffe S. Larsen, Lars Martiny and Mikael Begtrup*

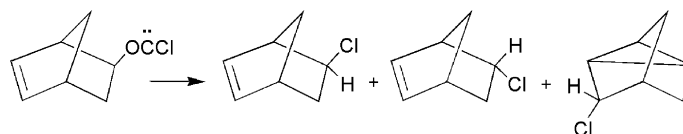


Enol phosphates, synthesized from 4-piperidone, react by palladium catalyzed cross-coupling with arylboronic acids and by iron and palladium catalyzed cross-coupling with Grignard reagents to give 4-substituted tetrahydropyridines.

**The fragmentation of *exo*-5-norbornenyl-2-oxychlorocarbene: stereochemistry and mechanism**

pp 4265–4268

Xiaolin Fu, Robert A. Moss,* Ronald R. Sauers* and Peter Wipf*




OTHER CONTENTS

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Instructions to contributors

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*Corresponding author

* Supplementary data available via ScienceDirect

COVER

First chemical synthesis of triglycosylated high mannose type tetradecasaccharide ($\text{Glc}_3\text{Man}_9\text{GlcNAc}_2$), a common precursor of asparagine-linked glycoproteins, as well as its glucosidase I product tridecasaccharide ($\text{Glc}_2\text{Man}_9\text{GlcNAc}_2$) were achieved using convergent and stereoselective manner. These oligosaccharides will be valuable standards to reveal protein–oligosaccharide interactions involved in glycoprotein biosynthesis. *Tetrahedron Letters* **2005**, *46*, 4197–4200.

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