

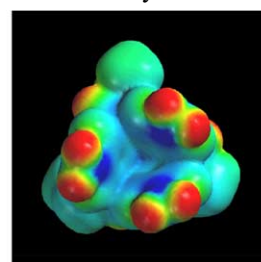
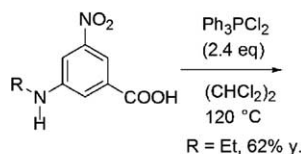
Contents

COMMUNICATIONS

Calix[3]amides—bowl-shaped cyclic trimers toward building block for molecular recognition: self-complementary dimeric structure in the crystal pp 413–416

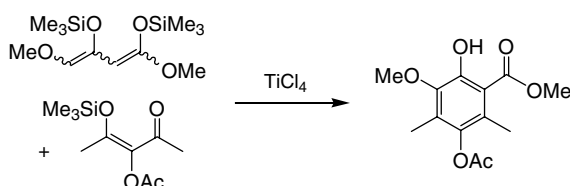
Fumiaki Imabeppu, Kosuke Katagiri, Hyuma Masu, Takako Kato, Masahide Tominaga, Bruno Therrien, Hiroaki Takayanagi, Eisuke Kaji, Kentaro Yamaguchi, Hiroyuki Kagechika and Isao Azumaya*

Bowl-shaped cyclic trimers of aromatic amides were simply synthesized in high yield by condensation reaction of *meta*-substituted 3-(alkylamino)benzoic acid using Ph_3PCl_2 .



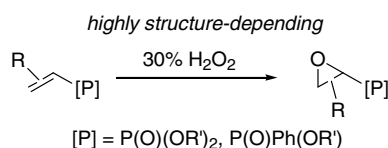
Synthesis of functionalized 4-chlorophenols and 1,4-dihydroquinones by [3+3] cyclization of 1,3-bis-silyl enol ethers with 2-chloro- and 2-acyloxy-3-(silyloxy)alk-2-en-1-ones pp 417–419

Zafar Ahmed and Peter Langer*



Epoxidation of phosphinoyl alkenes with hydrogen peroxide pp 421–424

Yutaka Ono and Li-Biao Han*



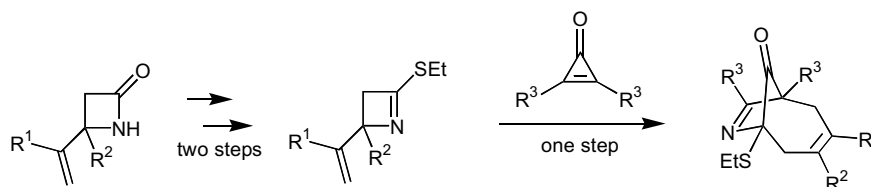
The epoxidation of phosphinoyl alkenes with H_2O_2 was significantly affected by the structure of the phosphorus compounds. While alkenylphosphonates and phosphinates having α -phenyl group reacted with $\text{H}_2\text{O}_2/\text{K}_2\text{CO}_3$, alkenylphosphonic, and phosphinic acids having an aliphatic group at α - or β -positions reacted with $\text{H}_2\text{O}_2/\text{Na}_2\text{WO}_4/\text{Et}_3\text{N}$ to produce high yields of the corresponding epoxides.



The synthesis of azabicyclo[4.2.1]nonenes by the addition of a cyclopropenone to 4-vinyl substituted 1-azetines— isomers of the homotropene nucleus

pp 425–428

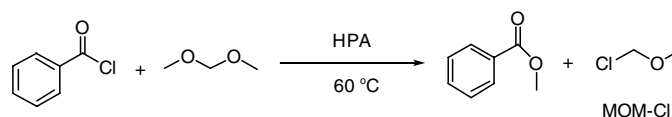
Karl Hemming,* Paul A. O’Gorman and Michael I. Page



Heteropolyacid-catalyzed synthesis of chloromethyl methyl ether

pp 429–431

Pilli Satyananda Kishore, Balasubramanian Viswanathan* and Thirukullam Kanthadai Varadarajan

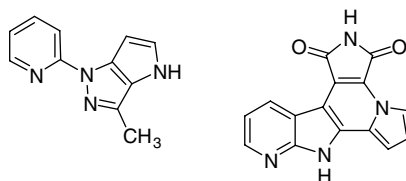


An efficient (in terms of experimental and time) synthetic procedure for chloromethyl methyl ether (MOM-Cl) is described using heteropolyacids (HPAs) as catalysts.

Synthesis of pyridino[3',2':4,5]pyrrolo[3,2-g]pyrrolo[3,4-e]indolizin-1,3-dione and pyrrolo[3,2-c]pyrazole skeletons

pp 433–436

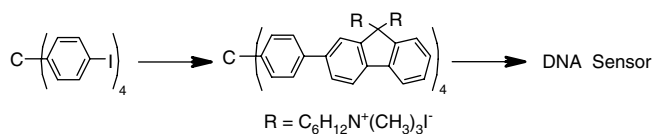
Fabrice Anizon,* Bruno Pfeiffer and Michelle Prudhomme



A cationic tetrahedral chromophore for amplified DNA detection

pp 437–439

Parameswar K. Iyer* and Shu Wang*

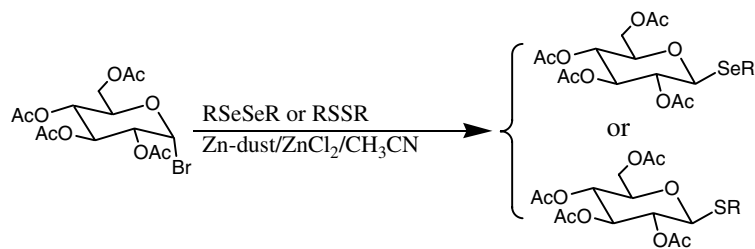


The development of a new water-soluble tetrahedral chromophore is presented here, which acts as a simple, homogeneous and sensitive platform for DNA hybridization assays.

Synthesis of thio- and selenoglycosides by cleavage of dichalconides in the presence of zinc/zinc chloride and reaction with glycosyl bromides

pp 441–445

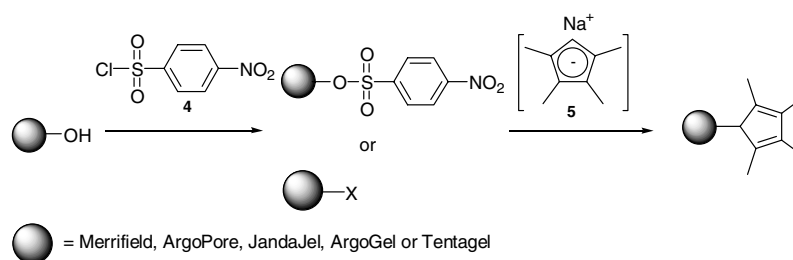
Chinmoy Mukherjee, Pallavi Tiwari and Anup Kumar Misra*



The synthesis of resin-bound tetramethylcyclopentadienes: an evaluation of two methodologies

pp 447–450

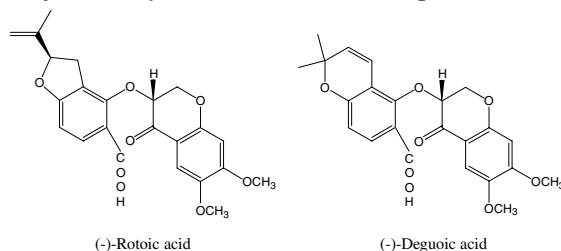
Alison S. Shearer* and Yolanda R. de Miguel



Substituted tubaic acids, new oxidative rotenoid metabolites from *Lonchocarpus nicou*

pp 451–454

Martin A. Lawson, Mourad Kaouadji,* Daovy P. Allais, Yves Champavier and Albert J. Chulia

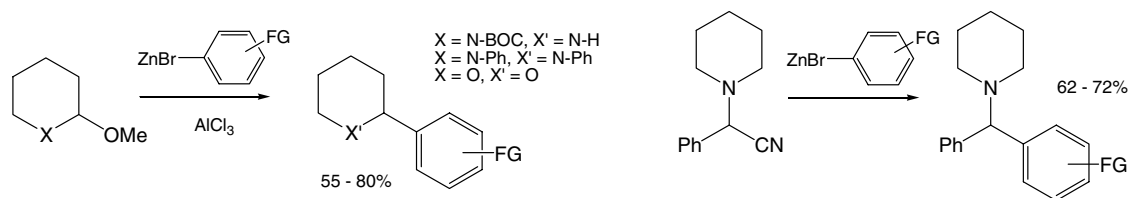


The chemical study of *Lonchocarpus nicou* roots benzene extract afforded the new (–)-rotoic acid and (–)-deguoic acid. Biogenetically, these natural products are probably located between the parent rotenoids rotenone and deguelin, respectively, and the corresponding free tubaic acids.

Aromatic organozinc reagents as nucleophiles in the α -arylation of piperidine and tetrahydropyran

pp 455–458

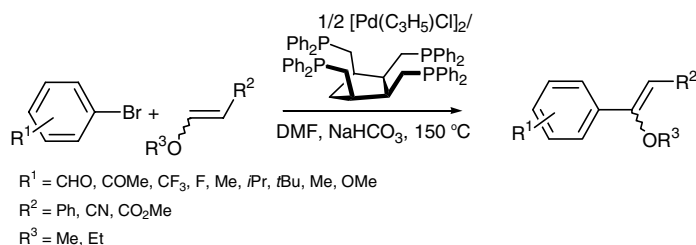
Erwan Le Gall,* Corinne Gosmini and Michel Troupel



Heck reactions of 2-substituted enol ethers with aryl bromides catalysed by a tetraphosphine/ palladium complex

pp 459–462

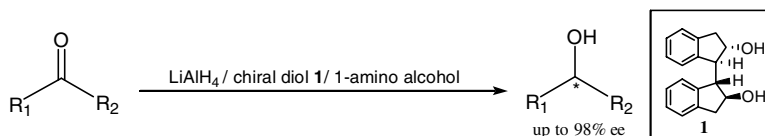
Ahmed Battace, Touriya Zair, Henri Doucet* and Maurice Santelli*



Highly enantioselective reduction of ketones by chiral diol-modified lithium aluminum hydride reagents

pp 463–465

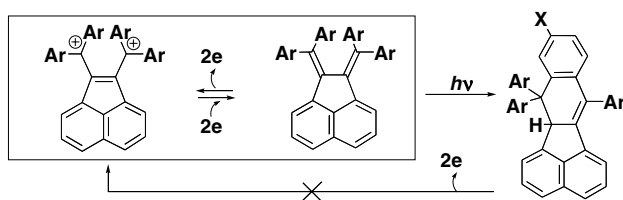
Yunlai Ren, Xinzhe Tian, Kumpeng Sun, Jian Xu, Xianlun Xu* and Shijie Lu



The first stable tetraarylacenaphthenequinodimethanes exhibiting electrochromism with ‘write-protect’ option: preparation, highly deformed structure, and reversible interconversion with acenaphthylene-5,6-diyl dicationic dyes

pp 467–471

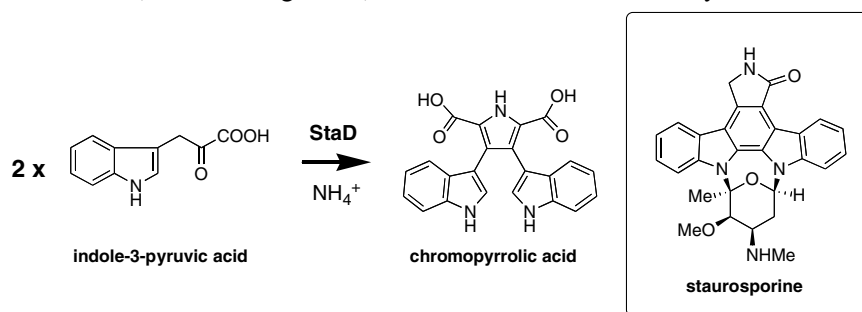
Takanori Suzuki,* Shinichi Iwashita, Tsuyoshi Yoshino, Hidetoshi Kawai, Kenshu Fujiwara, Masakazu Ohkita, Takashi Tsuji, Kazunori Ono and Masami Takenaka



Direct formation of chromopyrrolic acid from indole-3-pyruvic acid by StaD, a novel hemoprotein in indolocarbazole biosynthesis

pp 473–475

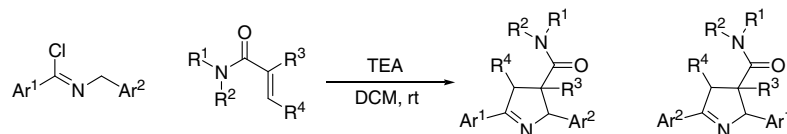
Shumpei Asamizu, Yasuo Kato, Yasuhiro Igarashi, Tamotsu Furumai and Hiroyasu Onaka*



Synthesis of 2*H*-pyrroles via the 1,3-dipolar cycloaddition reaction of nitrile ylides with acrylamides

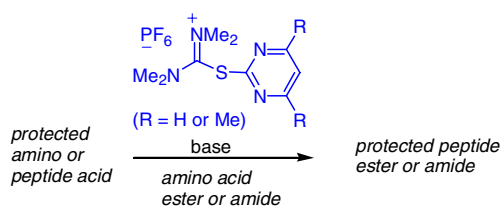
pp 477–481

Choong Leol Yoo, Marilyn M. Olmstead, Dean J. Tantillo* and Mark J. Kurth*

***S*-(2-Pyrimidinyl)- and *S*-(2-(4,6-dimethylpyrimidinyl))-1,1,3,3-tetramethylthiuronium hexafluorophosphates: novel reagents for in situ peptide coupling**

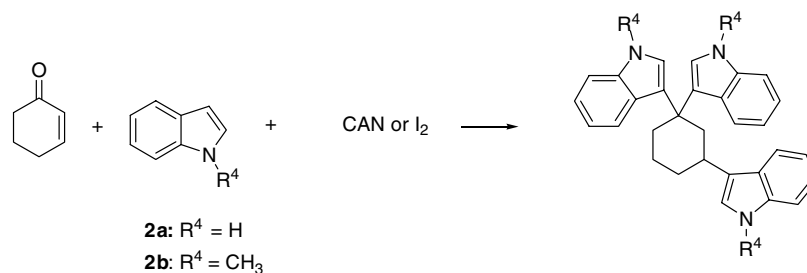
pp 483–486

Philip Garner,* Özge Şeşenoğlu and H. Ümit Kaniskan

**CAN and iodine-catalyzed reaction of indole or 1-methylindole with α,β -unsaturated ketone or aldehyde**

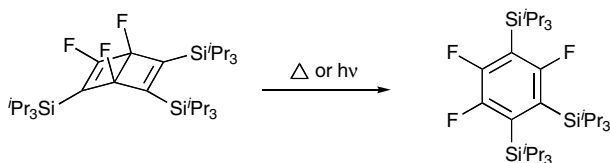
pp 487–492

Shengkai Ko, Chunchi Lin, Zhijay Tu, Yi-Fu Wang, Chieh-Chieh Wang and Ching-Fa Yao*

**Synthesis and crystal structure of 1,2,4-trifluoro-3,5,6-tris(triisopropylsilyl)benzene**

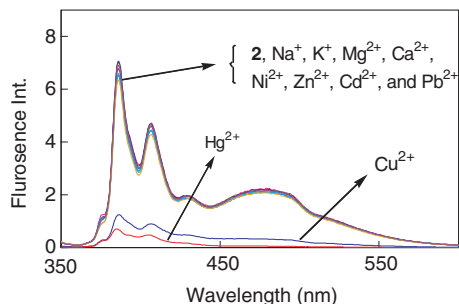
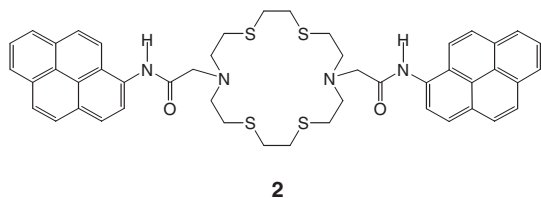
pp 493–495

Takeshi Hanamoto,* Yukinori Koga, Toshio Kawanami, Hiroshi Furuno and Junji Inanaga



Hg²⁺-selective fluoroionophoric behavior of pyrene appended diazatetrathia-crown ether
So Hee Kim, Ki Cheol Song, Sangdoon Ahn, Yong Soo Kang and Suk-Kyu Chang*

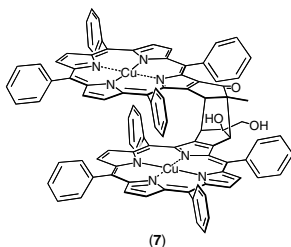
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β,β'-Linked cofacial bis-porphyrins

pp 501–504

Lijuan Jiao, Brandy H. Courtney, Frank R. Fronczek and Kevin M. Smith*

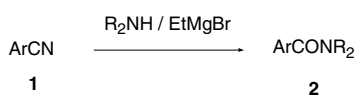


Self-sensitized photo-oxygenation of an *exo*-methylenepropanoporphyrin affords a high yield of an oxygenated coplanar bis-porphyrin (7).

An efficient conversion of nitriles to amides: application in the synthesis of *N,N*-diethyl-*m*-toluamide (DEET™)

pp 505–506

Apurba Bhattacharya,* Robert Erik Plata, Victor Villarreal, Savitha Muramulla and Jiejun Wu

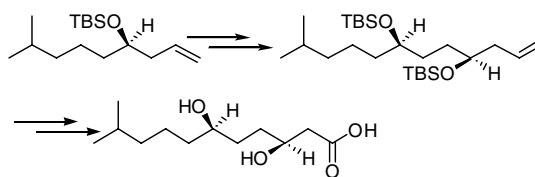


Arylnitriles react with magnesium amides to produce carboxamides in excellent yield. The method was applied for the preparation of the insect repellent DEET™.

First total synthesis of (–)-(3*S*,6*R*)-3,6-dihydroxy-10-methylundecanoic acid

pp 507–509

Xianshu Zhang, Shijun Da, Chaoxin Zhang, Zhixiang Xie* and Ying Li*

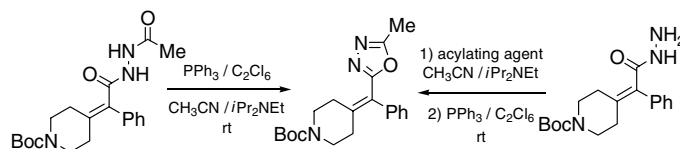


The first total synthesis of (3*S*,6*R*)-3,6-dihydroxy-10-methylundecanoic acid was accomplished from commercially available 1-bromo-3-methylbutane in 11 steps and 25.8% overall yield. The key steps were asymmetric allylic alkylations via allyldiisopinocampheylborane and hydroboration–oxidation.

General synthesis of tetrasubstituted alkenyl-1,3,4-oxadiazoles

pp 511–514

Clint A. James,* Brigitte Poirier, Christiane Grisé, Alain Martel and Edward H. Ruediger

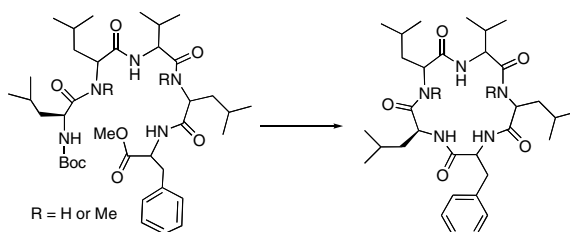


A general and mild synthesis of tetrasubstituted alkenyl-1,3,4-oxadiazoles is presented. A wide variety of sensitive functional groups are tolerated and a one-pot procedure is also demonstrated.

High-yielding macrocyclization conditions used in the synthesis of novel Sansalvamide A derivatives

pp 515–517

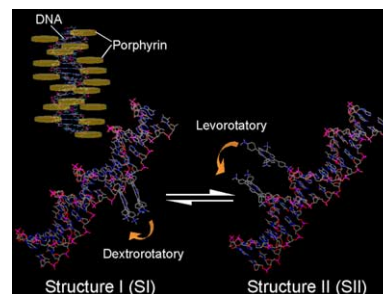
Thomas J. Styers, Rodrigo Rodriguez, Po-Shen Pan and Shelli R. McAlpine*

**Optical rotation inversion of porphyrin–DNA complexes**

pp 519–522

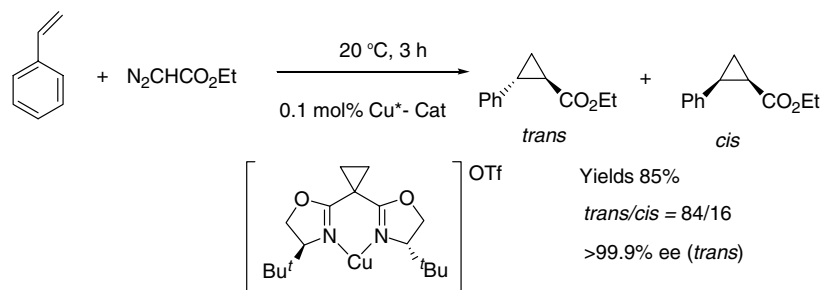
Chikako Takatoh, Takuya Matsumoto,* Tomoji Kawai,* Takayuki Shitoh and Kazuyoshi Takeda

Porphyrin aggregation with optical rotation inversion on a fixed DNA scaffold: This letter describes a new TMAP–DNA complex that is stabilized by both ionic bonds and stacking of π conjugates (structure I). Changes in the ionic conditions induced free inversion of the optical rotation of the TMAP–DNA complex without any change in the DNA structure (structure II).

**Application of a chiral copper-1,1-bis{2-[(4S)-tert-butylloxazoliny]}cyclopropane catalyst for asymmetric cyclopropanation of styrene**

pp 523–525

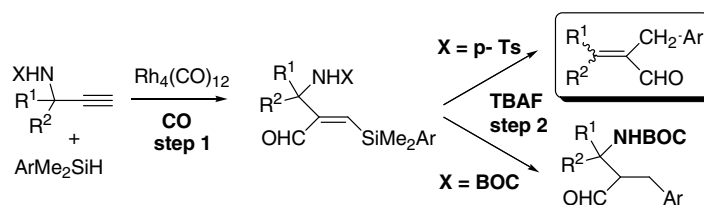
Makoto Itagaki* and Yohsuke Yamamoto



Silylformylation–desilylation of propargyl amides: synthesis of α,β -unsaturated aldehydes

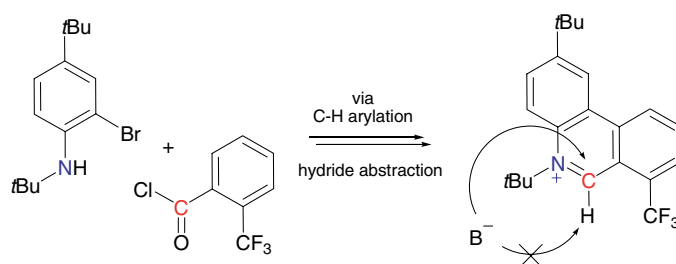
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Laura Antonella Aronica, Patrizio Raffa, Giulia Valentini, Anna Maria Caporusso* and Piero Salvadori

**Toward phenanthridin-2-ylidene: electrophilicity versus acidity in planar-constrained C-aryl iminium salts**

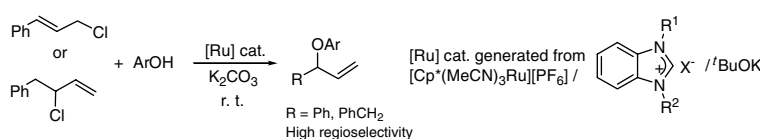
pp 531–534

Xavier Cattoën, Didier Bourissou* and Guy Bertrand*

**Regioselective allylic alkylation and etherification catalyzed by in situ generated N-heterocyclic carbene ruthenium complexes**

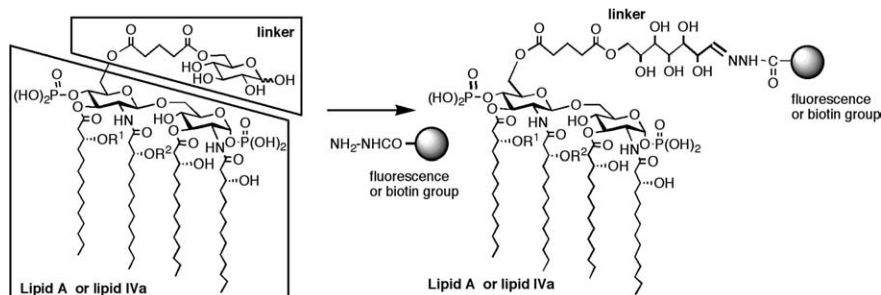
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Nevin Gürbüz, Ismail Özdemir,* Bekir Çetinkaya,* Jean-Luc Renaud,* Bernard Demerseman and Christian Bruneau*

**Synthesis and bioactivity of fluorescence- and biotin-labeled lipid A analogues for investigation of recognition mechanism in innate immunity**

pp 539–543

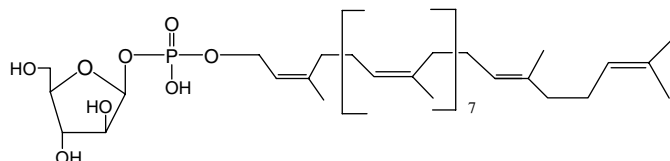
Yukari Fujimoto, Eiji Kimura, Shuichi Murata, Shoichi Kusumoto and Koichi Fukase*



Stereoselective synthesis of decaprenylphosphoryl β -D-arabinofuranose

pp 545–547

Avraham Liav,* Hairong Huang, Ewa Ciepichal, Patrick J. Brennan and Michael R. McNeil

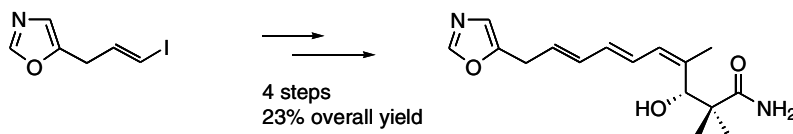


The title product was synthesized by coupling the trichloroacetimidate derivative of decaprenol to a suitably protected β -D-arabinofuranosyl phosphate.

A general route to the *Streptomyces*-derived inthomycin family: the first synthesis of (+)-inthomycin B

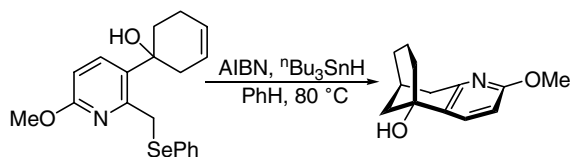
pp 549–552

Michael R. Webb, Craig Donald and Richard J. K. Taylor*

**A radical mediated approach to the core structure of huperzine A**

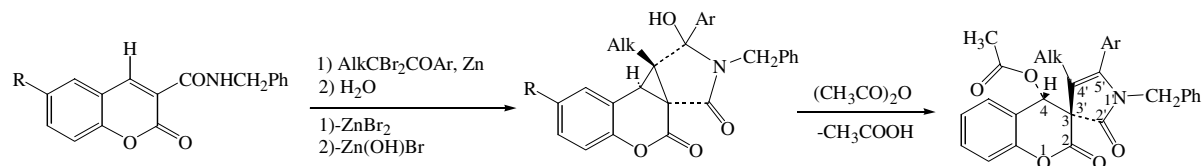
pp 553–556

Jarrod Ward and Vittorio Caprio*

**Synthesis of 8-R-9c-alkyl-1-aryl-2-benzyl-1-hydroxy-1,2,9b,9c-tetrahydro-5-oxa-2-aza-cyclopenta-[2,3]-cyclopropa[1,2-a]naphthalene-3,4-diones and reaction thereof with acetic anhydride**

pp 557–560

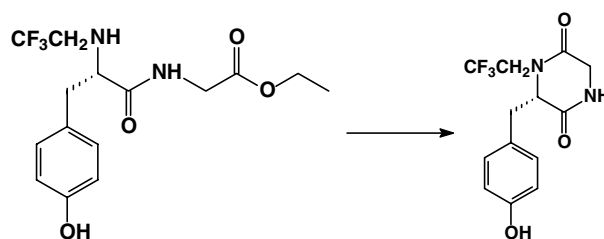
Vasily V. Shchepin,* Pavel S. Silaychev,* Anton R. Rakitin and Mikhayl I. Kodess



Synthesis of mono *N*^α-trifluoroethylated cyclic dipeptides

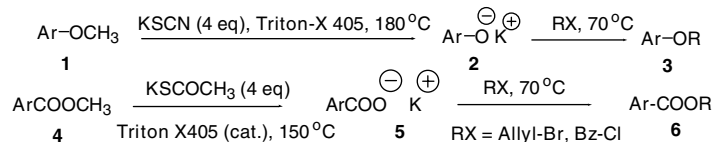
pp 561–564

Darryl D. DesMarteau* and Changqing Lu

**Surfactant-mediated solvent-free dealkylative cleavage of ethers and esters and trans-alkylation under neutral conditions**

pp 565–567

Apurba Bhattacharya,* Nitin C. Patel, Tomas Vasques, Ritesh Tichkule, Gaurang Parmar and Jiejun Wu

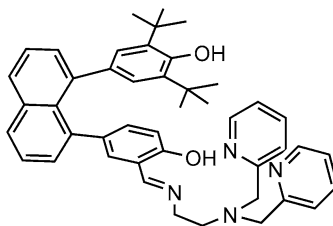


A simple, surfactant-mediated, one-pot, solvent-free dealkylative cleavage of aryl ethers and esters followed by subsequent optional trans-alkylation under essentially neutral conditions has been developed.

Ligand designed with pending phenol group

pp 569–571

Laurent Sabater, Fabien Lachaud, Christelle Hureau* and Ally Aukauloo*

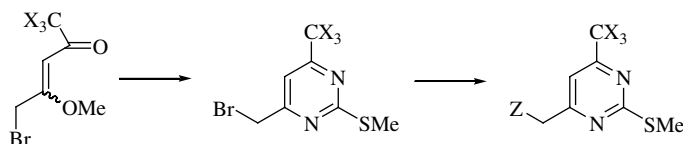


A salen-type ligand bearing an encumbered phenol ring in a face to face disposition has been synthesised in the view to modelise metal–radical enzymatic systems.

**A convenient two-step synthesis of 6-methylenesubstituted-4-trichloromethyl-2-methylsulfonyl pyrimidines**

pp 573–576

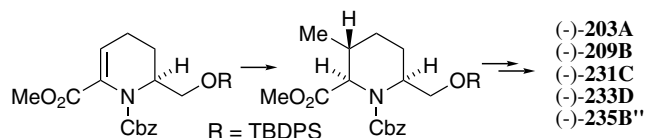
Nilo Zanatta,* Darlene C. Flores, Claudia C. Madruga, Alex F. C. Flores, Helio G. Bonacorso and Marcos A. P. Martins



The enantioselective synthesis of poison-frog alkaloids (–)-203A, (–)-209B, (–)-231C, (–)-233D, and (–)-235B''

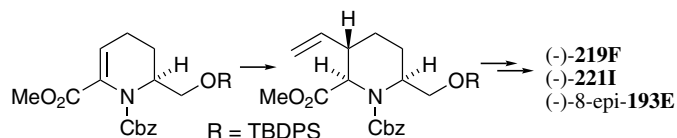
pp 577–580

Naoki Toyooka,* Zhou Dejun, Hideo Nemoto, H. Martin Garraffo, Thomas F. Spande and John W. Daly

**Enantioselective syntheses of poison-frog alkaloids: 219F and 221I and an epimer of 193E**

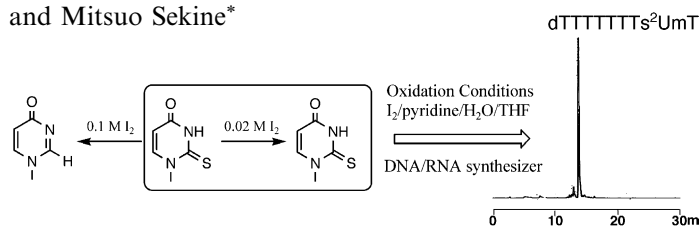
pp 581–582

Naoki Toyooka,* Zhou Dejun, Hideo Nemoto,* H. Martin Garraffo, Thomas F. Spande and John W. Daly

**Improved synthesis of oligonucleotides containing 2-thiouridine derivatives by use of diluted iodine solution**

pp 583–585

Itaru Okamoto, Kohji Seio and Mitsuo Sekine*

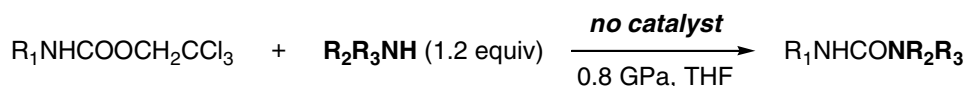


Oligonucleotides containing s²U derivatives were stable toward a 0.02 M solution of iodine in pyridine–THF–H₂O. These conditions were successfully applied to the synthesis of oligonucleotides containing s²U derivatives on an automated DNA/RNA synthesizer.

A new practical method for the synthesis of unsymmetrical ureas via high-pressure-promoted condensation of 2,2,2-trichloroethyl carbamates (Troc-carbamates) with amines

pp 587–590

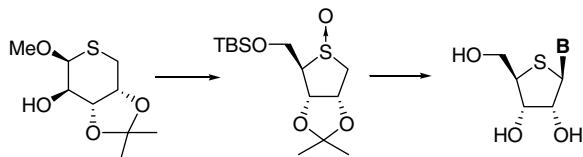
Saleha Azad, Koji Kumamoto, Kaoru Uegaki, Yoshiyasu Ichikawa and Hiyoshizo Kotsuki*



A practical synthesis of 4'-thioribonucleosides

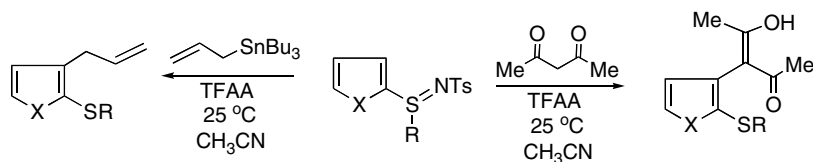
pp 591–594

Yuichi Yoshimura,* Tetsuya Kuze, Mari Ueno, Fumiko Komiya, Kazuhiro Haraguchi, Hiromichi Tanaka, Fumitaka Kano, Kohei Yamada, Kazuhiro Asami, Nobuaki Kaneko and Hiroki Takahata*

**Additive Pummerer reaction of heteroaromatic sulfilimines with carbon nucleophiles**

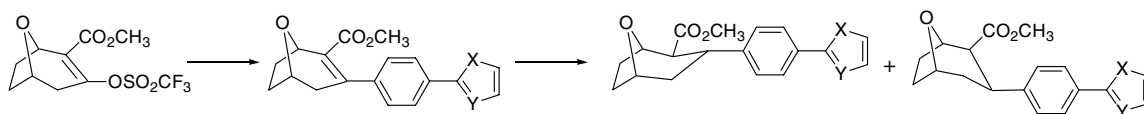
pp 595–597

Albert Padwa,* Shinji Nara and Qiu Wang

**Synthesis of 3-(4-heteroaryl-phenyl)-8-oxabicyclo[3.2.1]octane-2-carboxylic acid methyl esters**

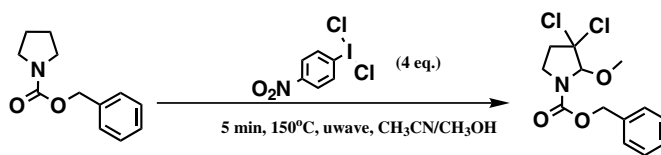
pp 599–603

Lokman Torun, Shanghao Liu, Bertha K. Madras and Peter C. Meltzer*

**Unique one step, multicomponent α,β,β -oxidations of carbamates with Willgerodt-like hypervalent iodine reagents—an example of triple C–H bond activation**

pp 605–609

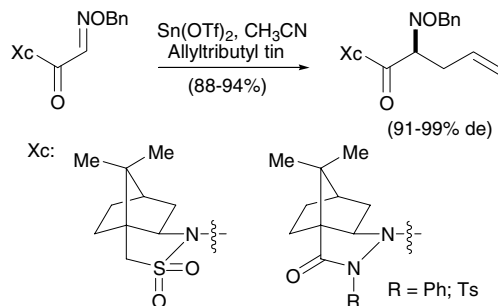
Walter Salamant and Christopher Hulme*



Excellent diastereoselective allylation of camphor derived glyoxylic oxime ethers mediated by a Lewis acid

pp 611–613

Neelesh A. Kulkarni and Kwunmin Chen*




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