

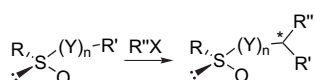
Contents

REPORT

Use of chiral sulfoxides in asymmetric synthesis

pp 5559–5601

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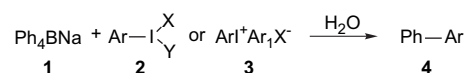
This report is intended to update the most recent advances in asymmetric synthesis using chiral sulfoxides, focusing on their use as chiral auxiliaries from 2000 to 2006 and their applications in the synthesis of biologically active products. The main purpose of this review is to demonstrate the growing potential of these chiral sulfur reagents in transmitting chirality to other centres, establishing the sulfinyl group as one of the most stereocontrolling elements in numerous asymmetric reactions.

ARTICLES

Metal catalyst-free Suzuki-type coupling reaction in water

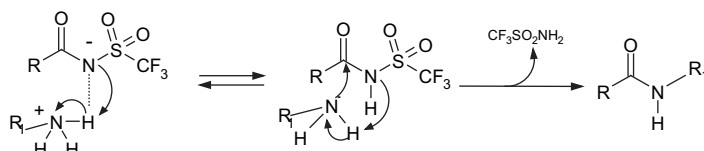
pp 5603–5607

Jie Yan,* Hongwei Jin and Shang Shan


N-Acyltrifluoromethanesulfonamides as new chemoselective acylating agents for aliphatic and aromatic amines

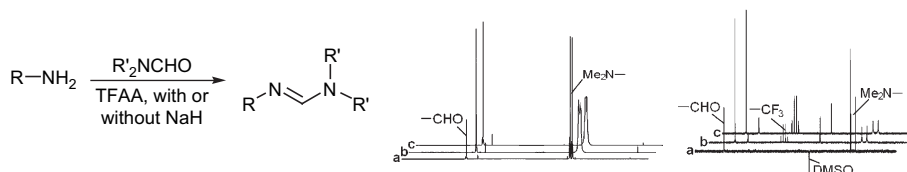
pp 5608–5616

Sophie Guillard, Andrea Aramini, Maria C. Cesta, Sandro Colagioia, Silvia Coniglio, Filippo Genovese, Giuseppe Nano, Emanuela Nuzzo, Valerie Orlando and Marcello Allegretti*



Unexpected formation of *N,N*-disubstituted formamidines from aromatic amines, formamides and trifluoroacetic anhydride pp 5617–5625

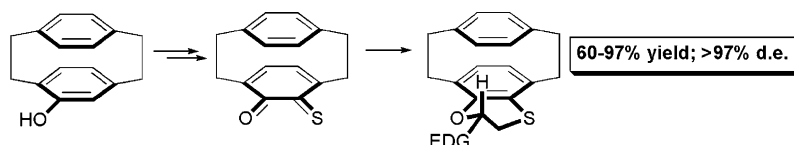
Abdelaziz Mekhalfia, Roger Mutter, William Heal and Beining Chen*



1H and ^{13}C NMR studies of DMF+TFAA led to a mechanism proposal.

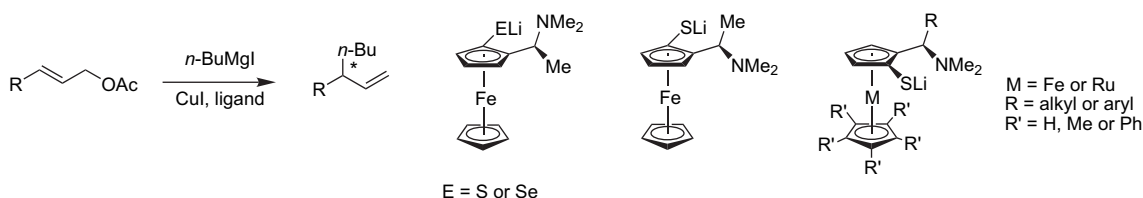
o-Thioquinones on [2.2]paracyclophanes: an example of totally stereocontrolled hetero Diels–Alder reactions pp 5626–5631

Stefano Menichetti,* Cristina Faggi, Giuseppe Lamanna, Assunta Marrocchi, Lucio Minuti* and Aldo Taticchi



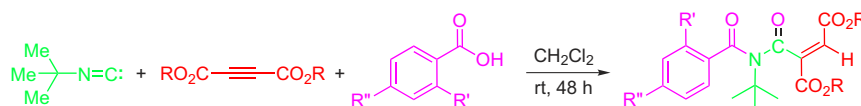
Screening of ligands in the asymmetric metallocenethiolatocopper(I)-catalyzed allylic substitution with Grignard reagents pp 5632–5640

Hanna K. Cotton, Jakob Norinder and Jan-E. Bäckvall*



Reaction between *tert*-butyl isocyanide, dialkyl acetylenedicarboxylates, and aromatic carboxylic acids: an efficient method for the synthesis of dialkyl (*E*)-2-[[benzoyl(*tert*-butyl)amino]carbonyl]-2-butenedioate derivatives pp 5641–5644

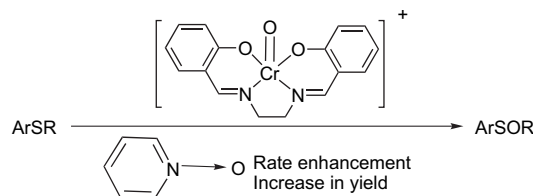
Abdolali Alizadeh,* Sadegh Rostamnia and Long-Guan Zhu



Effect of added donor ligands on the selective oxygenation of organic sulfides by oxo(salen)chromium(V) complexes

pp 5645–5651

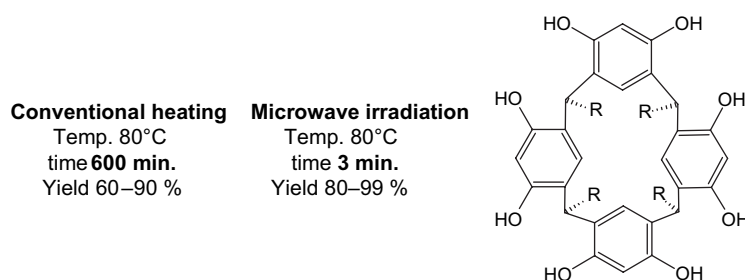
Natarajan Sathiyamoorthy Venkataramanan and Seenivasan Rajagopal*



Microwave-assisted synthesis of calix[4]resorcinarenes

pp 5652–5655

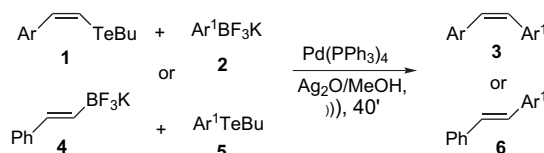
Madani Hedidi, Safouane M. Hamdi,* Tassadit Mazari, Baya Boutemour, Cherifa Rabia, Farid Chemat* and Maâmar Hamdi



Ultrasound-assisted synthesis of *Z* and *E* stilbenes by Suzuki cross-coupling reactions of organotellurides with potassium organotrifluoroborate salts

pp 5656–5662

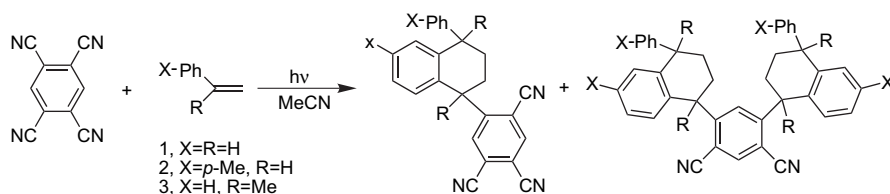
Rodrigo Cella and Hélio A. Stefani*



Photoreactions of 1,2,4,5-benzenetetracarbonitrile with arylenes—photo-olefin dimerization—aromatic substitution reactions

pp 5663–5674

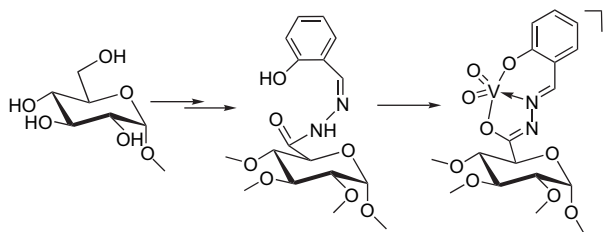
Min Zhang, Zhi-Feng Lu, Yun Liu, Günter Grampp, Hong-Wen Hu and Jian-Hua Xu*



Synthesis pathway to carbohydrate-derived salicylidene hydrazides as ligands for oxovanadium complexes

pp 5675–5681

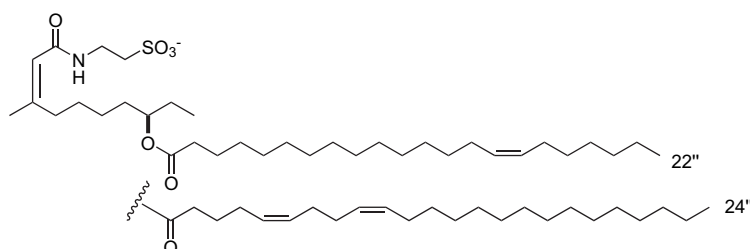
J. Becher,* I. Seidel, W. Plass and D. Klemm



Irciniasulfonic acid B, a novel taurine conjugated fatty acid derivative from a Japanese marine sponge, *Ircinia* sp.

pp 5682–5685

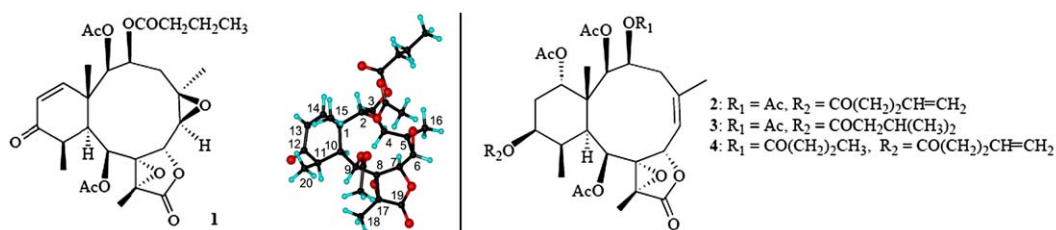
Chisato Emura, Ryuichi Higuchi and Tomofumi Miyamoto*



Briaexcavatins C–F, four new briarane-related diterpenoids from the Formosan octocoral *Briareum excavatum* (Briareidae)

pp 5686–5691

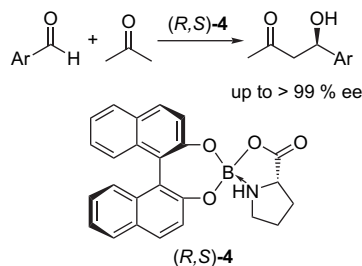
Ping-Jyun Sung,* Yu-Pei Chen, Tsong-Long Hwang, Wan-Ping Hu, Lee-Shing Fang, Yang-Chang Wu, Jan-Jung Li and Jyh-Horng Sheu*



Chiral spiroborate esters catalyzed highly enantioselective direct aldol reaction

pp 5692–5696

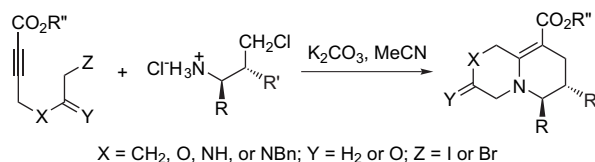
Yan Zhou and Zixing Shan*



A sequential reaction process to assemble polysubstituted indolizidines, quinolizidines and quinolizidine analogues

pp 5697–5708

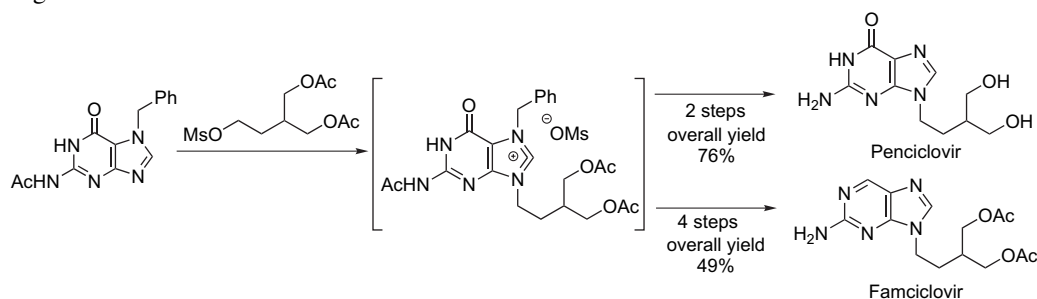
Guorong Cai, Wei Zhu and Dawei Ma*



Practical syntheses of penciclovir and famciclovir from *N*2-acetyl-7-benzylguanine

pp 5709–5716

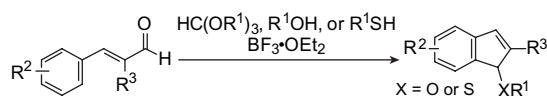
Takayoshi Torii, Hiroshi Shiragami, Keizo Yamashita, Yumiko Suzuki, Toyoto Hijiya, Tatsuki Kashiwagi and Kunisuke Izawa*



Intramolecular electrophilic aromatic substitution of α -alkylcinnamaldehydes affording 1-alkoxy-2-alkylindenes

pp 5717–5724

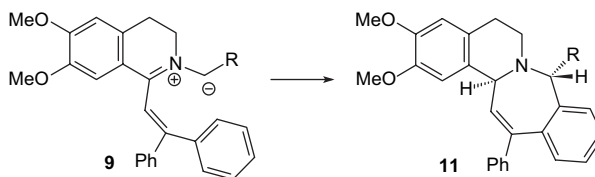
Takashi Jobashi, Atsushi Kawai, Satomi Kawai, Katsuya Maeyama, Hideaki Oike, Yasuhiko Yoshida and Noriyuki Yonezawa*



1,7-Electrocyclization reactions of stabilized $\alpha,\beta,\gamma,\delta$ -unsaturated azomethine ylides

pp 5725–5735

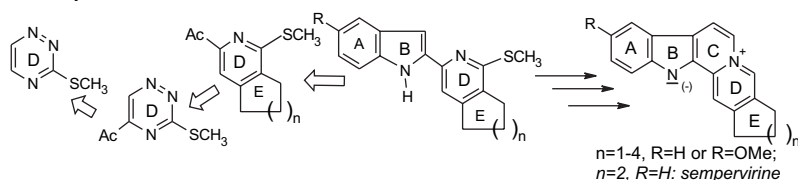
Judit Tóth, András Dancsó, Gábor Blaskó, László Tőke, Paul W. Groundwater and Miklós Nyerges*



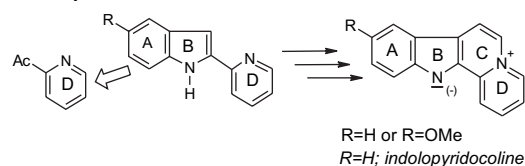
Total synthesis of new indolo[2,3-*a*]quinolizine alkaloids sempervirine type, potential pharmaceuticals pp 5736–5747

Teodozja M. Lipińska

Total synthesis



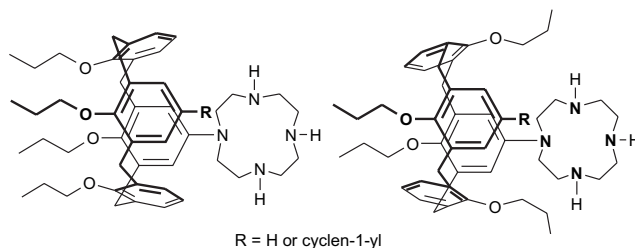
Model synthesis



Seven new pentacyclic alkaloids sempervirine type have been synthesized via the AB–DE synthons obtainable by Fischer indolization of fused pyridines acetyl derivatives, which were formed in Diels–Alder reaction of 1,2,4-triazine precursor with cyclic enamines. New indolopyridocoline methoxy analogue has been obtained in the model synthesis from 2-acetylpyridine.

Synthesis of calix[4]arene–cyclen conjugates pp 5748–5755

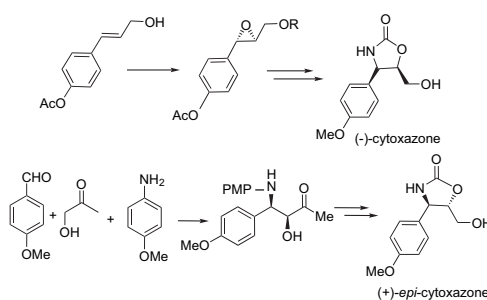
Václav Stastný, Pavel Lhoták,* Ivan Stibor and Burkhard König*



Novel calix[4]arene derivatives immobilized in the *cone* or *1,3-alternate* conformations, bearing one or two cyclen (1,4,7,10-tetraazacyclododecane) moieties directly appended to the upper rim, have been synthesized using Buchwald–Hartwig coupling reaction.

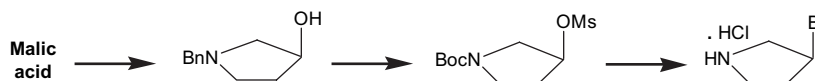
Enantioselective synthesis of (–)-cytoxazone and (+)-*epi*-cytoxazone, novel cytokine modulators via Sharpless asymmetric epoxidation and L-proline catalyzed Mannich reaction pp 5756–5762

Abhimanyu S. Paraskar and Arumugam Sudalai*

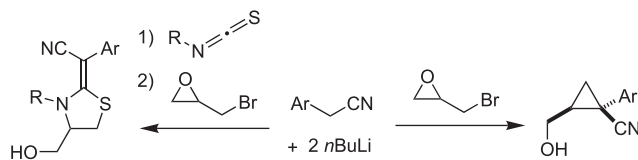


Synthesis of racemic and enantiomeric 3-pyrrolidinyl derivatives of nucleobases pp 5763–5774

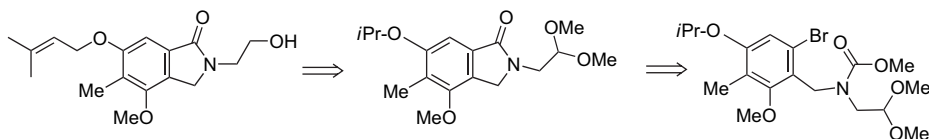
Petr Kočalka, Radek Pohl, Dominik Rejman* and Ivan Rosenberg*



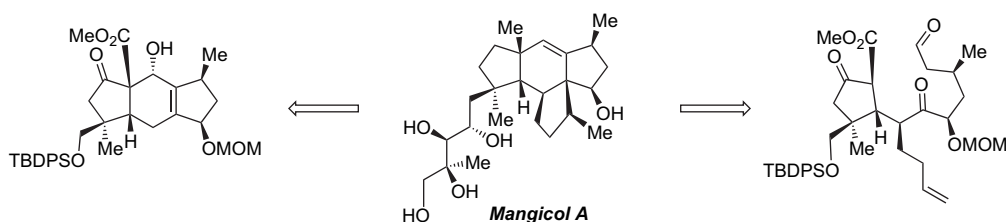
One-pot cyclization of dilithiated nitriles with isothiocyanates and epibromohydrin. Synthesis of 2-cyano-1-(hydroxymethyl)cyclopropanes and 2-cyanomethylidene-4-(hydroxymethyl)thiazolidines pp 5775–5786
Uwe Albrecht, Ilia Freifeld, Helmut Reinke and Peter Langer*



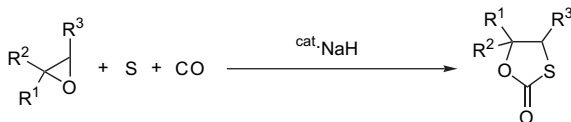
A new synthesis of the phytotoxin porritoxin pp 5787–5790
Anne Moreau, Axel Couture,* Eric Deniau and Pierre Grandclaudon



Exploration of conjugate addition routes to advanced tricyclic components of mangicol A pp 5791–5802
Stefan Pichlmair, Manuel de Lera Ruiz, Ivan Vilotijevic and Leo A. Paquette*

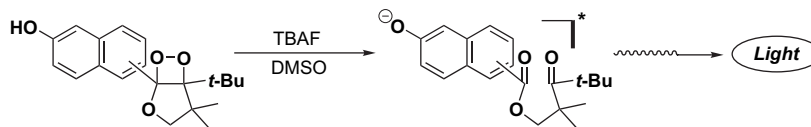


A facile method for the synthesis of 1,3-oxathiolan-2-ones by reaction of oxiranes, sulfur, and carbon monoxide pp 5803–5807
Yutaka Nishiyama,* Chisato Katahira and Noboru Sonoda*



Synthesis and fluoride-induced chemiluminescent decomposition of bicyclic dioxetanes substituted with a 2-hydroxynaphthyl group pp 5808–5820

Naoyuki Hoshiya, Natsuki Fukuda, Hidetoshi Maeda, Nobuko Watanabe and Masakatsu Matsumoto*



*Corresponding author

i⁺ Supplementary data available via ScienceDirectFull text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

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