

Tetrahedron Letters Vol. 50, No. 52, 2009

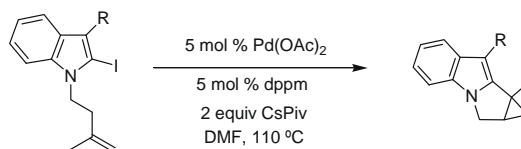
Contents

COMMUNICATIONS

Synthesis of cyclopropanes by Pd-catalyzed activation of alkyl C–H bonds

pp 7235–7238

Qinhua Huang, Richard C. Larock *

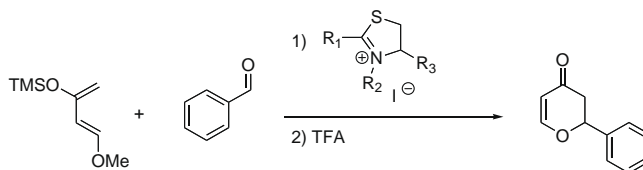


A novel synthesis of cyclopropanes has been developed via palladium-catalyzed C–H activation in which two new carbon–carbon bonds are formed in a single step. This method involves palladium-catalyzed activation of normally unreactive secondary alkyl C–H bonds and provides an efficient way to access cyclopropylpyrrolo[1,2-*a*]indoles, analogues of mitomycin and cyclopropamitosenes.

Thiazolinium salt: an efficient catalyst for the Mukaiyama reaction

pp 7239–7241

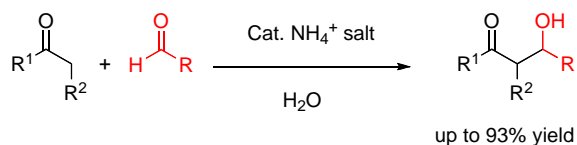
Guillaume Mercey, Delphine Brégeon, Christine Baudequin, Frédéric Guillen, Jocelyne Levillain *, Mihaela Gulea, Jean-Christophe Plaquevent, Annie-Claude Gaumont *



Inorganic ammonium salts as catalysts for direct aldol reactions in the presence of water

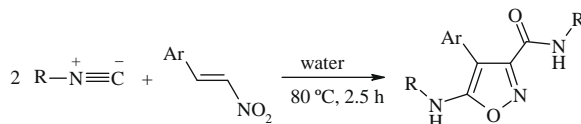
pp 7242–7245

Pawel Dziedzic, Agnieszka Bartoszewicz, Armando Córdoba *

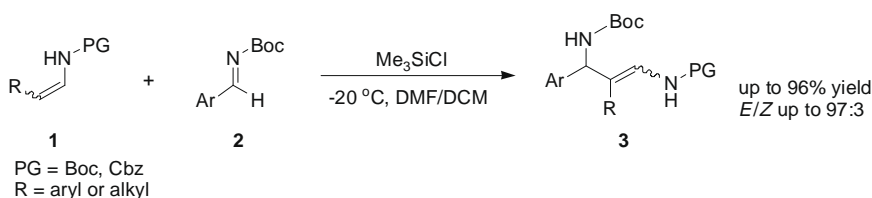


Reaction between isocyanides and nitrostyrenes in water: a novel and efficient synthesis of 5-(alkylamino)-4-aryl-3-isoxazolecarboxamides

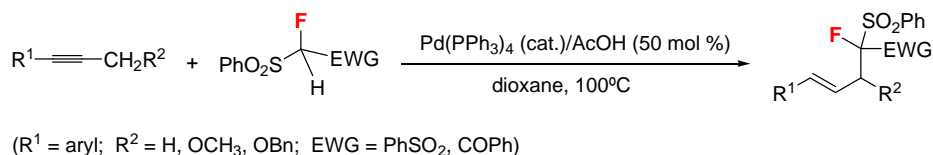
pp 7246–7248

Mehdi Adib ^{*}, Mohammad Mahdavi, Samira Ansari, Farzad Malihi, Long-Guan Zhu, Hamid Reza Bijanzadeh
Trimethylchlorosilane-promoted aza-Mannich reaction of enecarbamates and aldimines

pp 7249–7251

Pengcheng Wu, Deqin Lin, Xiaoxia Lu ^{*}, Li Zhou, Jian Sun ^{*}
Palladium/acetic acid-catalyzed fluoroalkylation of alkynes with monofluorinated sulfones as pronucleophiles

pp 7252–7255

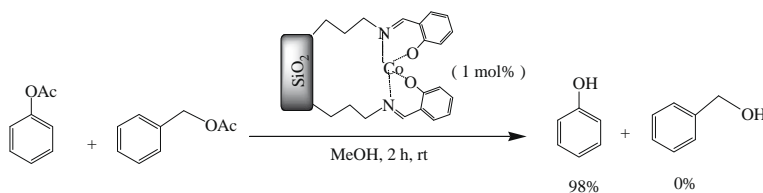
Chuanfa Ni, Jinbo Hu ^{*}

A facile palladium-catalyzed fluoroalkylation of alkynes with monofluorinated sulfones in the presence of acetic acid has been achieved. By using different α -substituted fluoro(phenylsulfonyl)methane derivatives, a variety of allylated monofluoromethyl compounds were obtained with high regio- and stereoselectivity.


A highly efficient and reusable mesoporous supported Co(II) catalyst for chemoselective deprotection of aryl acetates

pp 7256–7258

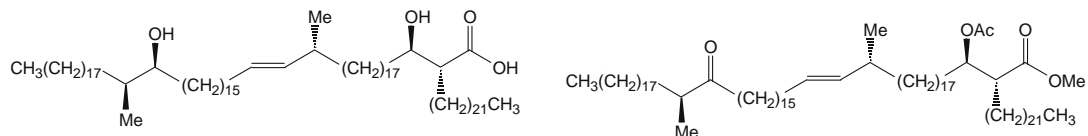
Fatemeh Rajabi



The synthesis of single enantiomers of *trans*-alkene-containing mycolic acids

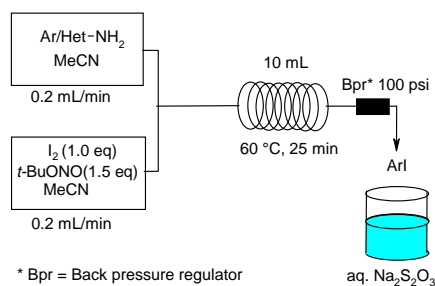
pp 7259–7262

Gani Koza, Richard Rowles, Cornelia Theunissen, Juma'a R. Al-Dulayymi, Mark S. Baird *

**A safe and reliable procedure for the iododeamination of aromatic and heteroaromatic amines in a continuous flow reactor**

pp 7263–7267

Laia Malet-Sanz *, Julia Madrzak, Rhian S. Holvey, Toby Underwood

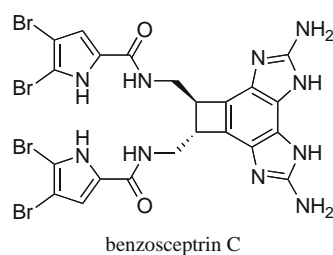


* Bpr = Back pressure regulator

**Benzosceptrin C, a new dimeric bromopyrrole alkaloid from sponge *Agelas* sp.**

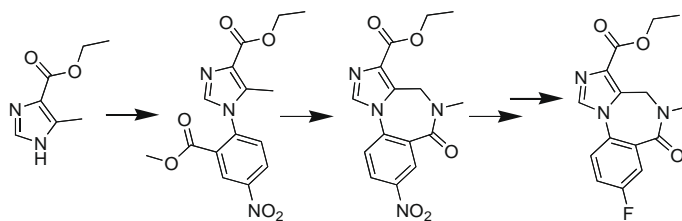
pp 7268–7270

Takaaki Kubota, Atsushi Araki, Tetsuro Yasuda, Masashi Tsuda, Jane Fromont, Kazuki Aoyama, Yuzuru Mikami, Markus R. Wälchli, Jun'ichi Kobayashi *

**A concise and efficient synthesis of flumazenil and its precursor for radiolabeling with fluorine-18**

pp 7271–7273

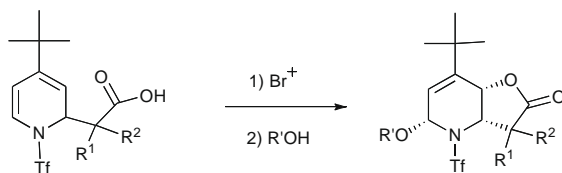
Sean R. Donohue *, Robert F. Dannals



An intramolecular journey of a carboxyl group around 1,2-dihydropyridines: multisite δ - versus γ -lactonization reactions

pp 7274–7279

Andrée Parlier, Catherine Kadouri-Puchot, Sandra Beaupierre, Nathalie Jarosz, Henri Rudler*, Louis Hamon, Patrick Herson, Jean-Claude Daran



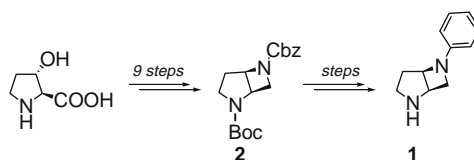
Whereas alkylacetic acid-substituted 1,4-dihydropyridines gave upon electrophile-induced lactonization reactions, regio- and stereoselectively δ -lactones, the corresponding 1,2-dihydropyridines led, depending on the reaction conditions, to multisite lactonization products, γ - and δ -lactones.



First synthesis of 2,6-diazabicyclo[3.2.0]heptane derivatives

pp 7280–7282

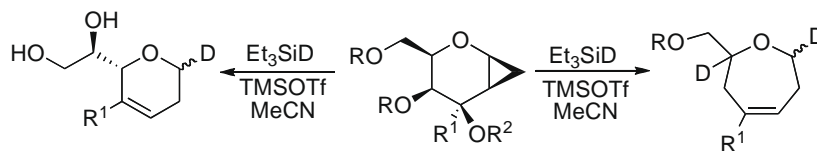
Carmela Napolitano, Manuela Borriello, Francesca Cardullo*, Daniele Donati, Alfredo Paio, Stefano Manfredini*



Mechanistic studies of rearrangements during the ring expansions of cyclopropanated carbohydrates

pp 7283–7285

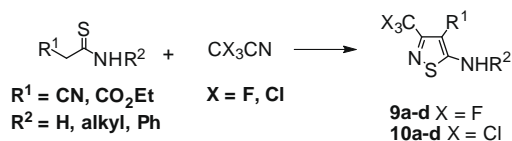
Rhys Batchelor, Joanne E. Harvey, Paul Teesdale-Spittle, John O. Hoberg*



Synthesis of 4,5-disubstituted-3-trihalomethylisothiazoles

pp 7286–7287

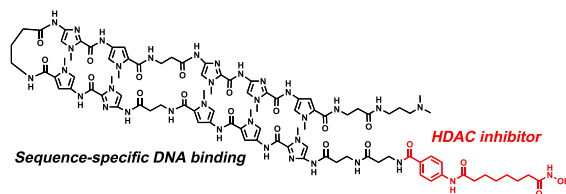
Michael P. Zawistoski, Shannon M. Decker, David A. Griffith*



Synthesis and properties of PI polyamide–SAHA conjugate

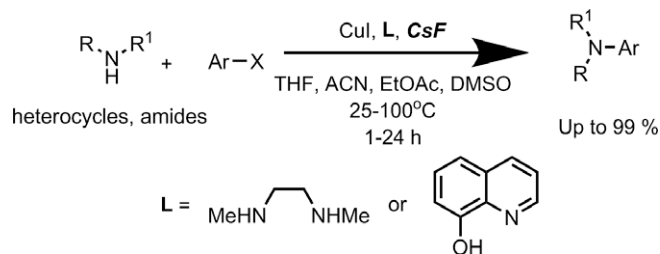
pp 7288–7292

Akimichi Ohtsuki, Makoto T. Kimura, Masafumi Minoshima, Tsukasa Suzuki, Maki Ikeda, Toshikazu Bando, Hiroki Nagase, Ken-ichi Shinohara, Hiroshi Sugiyama*

**Copper-catalyzed C–N coupling of amides and nitrogen-containing heterocycles in the presence of cesium fluoride**

pp 7293–7296

Dean P. Phillips*, Xue-Feng Zhu, Thomas L. Lau, Xiaohui He, Kunyong Yang, Hong Liu

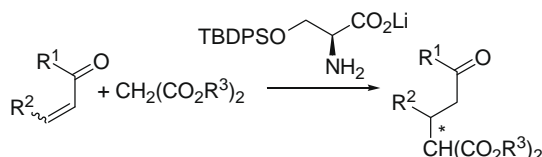


Cesium fluoride as the base efficiently enables the copper-catalyzed N-arylation of amides and nitrogen heterocycles.

**Asymmetric Michael addition of malonates to enones catalyzed by a siloxy amino acid lithium salt**

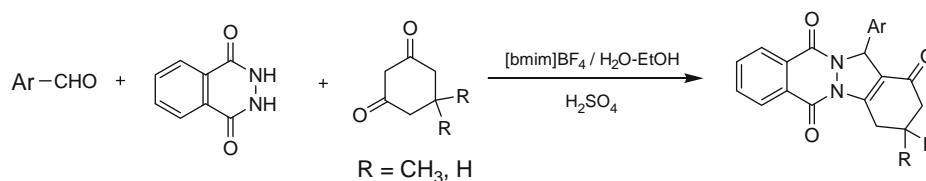
pp 7297–7299

Masanori Yoshida*, Mao Narita, Keisuke Hiram, Shoji Hara

Siloxy amino acid lithium salt, *O*-*tert*-butyldiphenylsilyl L-serine lithium salt, was found to be an effective catalyst for the asymmetric Michael addition reaction of malonates to enones.**Efficient one-pot syntheses of 2*H*-indazolo[2,1-*b*] phthalazine-triones by catalytic H₂SO₄ in water–ethanol or ionic liquid**

pp 7300–7303

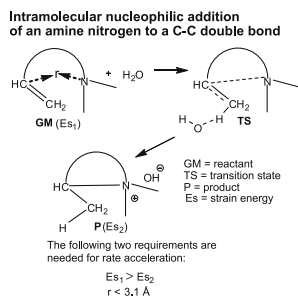
Jitender M. Khurana*, Devanshi Magoo

Efficient and environmentally benign protocols for the synthesis of 2*H*-indazolo[2,1-*b*] phthalazine-triones are described.

Analyzing Kirby's amine olefin—a model for amino acid ammonia lyases

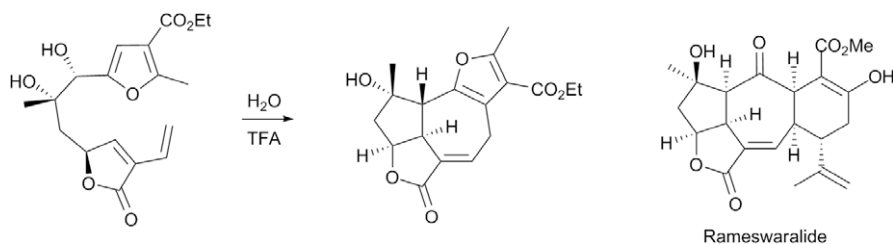
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Rafik Karaman



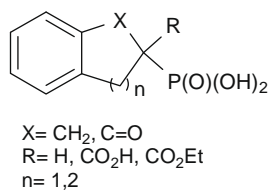
An intramolecular [4+3]-cycloaddition approach to rameswaralide inspired by biosynthesis speculation

pp 7310–7313

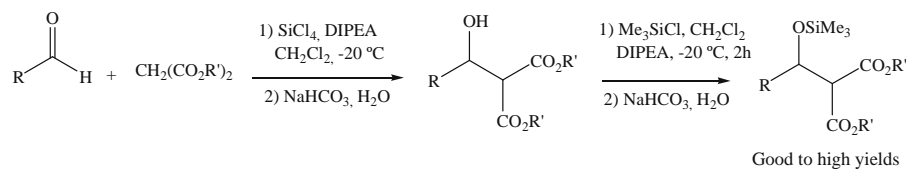
Gerald Pattenden^{*}, Johan M. Winne

Synthesis of phosphonate derivatives of 2,3-dihydroindene

pp 7314–7317

Monika Prokopowicz, Piotr Młynarz^{*}, Paweł KafarskiSynthesis of β-hydroxymalonates: the direct aldol addition of malonates to aldehydes in the presence of SiCl₄ and *i*-Pr₂EtN

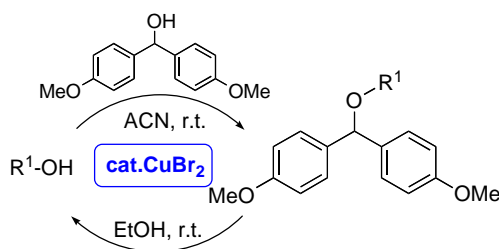
pp 7318–7321

Antonio Massa^{*}, Arrigo Scettri, Rosanna Filosa, Laura Capozzolo

Copper(II) bromide as an efficient catalyst for the selective protection and deprotection of alcohols as bis(4-methoxyphenyl)methyl ethers

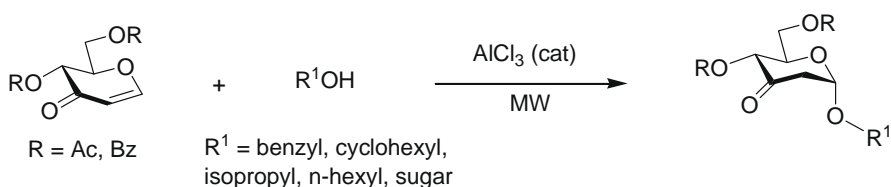
pp 7322–7326

Rofia Mezaache, Yénimégué Albert Dembelé, Yann Bikard, Jean-Marc Weibel, Aurélien Blanc, Patrick Pale *

**Microwave-assisted stereoselective α -2-deoxyglycosylation of hex-1-en-3-uloses**

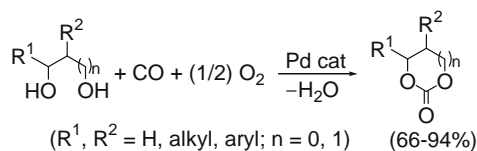
pp 7327–7329

Hui-Chang Lin *, Hsu-Hsuan Wu, Zi-Ping Lin, Chih-Yuan Lin, Chun-Hung Lin, Kun-Lung Chen, Fung Fuh Wong

**A novel and efficient method for the catalytic direct oxidative carbonylation of 1,2- and 1,3-diols to 5-membered and 6-membered cyclic carbonates**

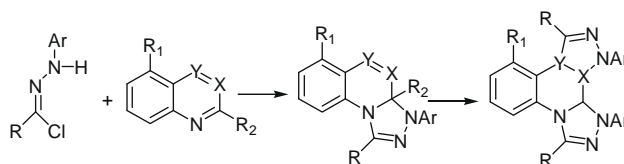
pp 7330–7332

Bartolo Gabriele *, Raffaella Mancuso, Giuseppe Salerno, Giuseppe Ruffolo, Mirco Costa, Angela Dibenedetto

**Reactivity of asymmetric benzo-condensed diazines with nitrilimine dipoles in the 1,3-dipolar cycloaddition reactions**

pp 7333–7336

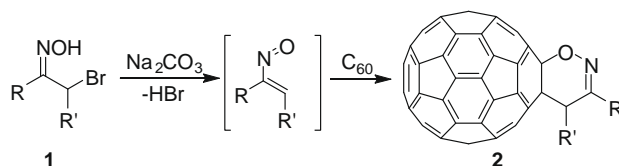
Antonino Lauria *, Annalisa Guarcello, Gabriella Macaluso, Gaetano Dattolo, Anna Maria Almerico



The reactivity of asymmetric benzo-condensed diazines in the 1,3-dipolar cycloaddition reactions with nitrilimines was investigated. The results demonstrated that, at variance with the symmetric quinoxaline, a certain grade of diastereoselectivity emerged.

Hetero-Diels–Alder reaction of [60]fullerene with nitrosoalkene

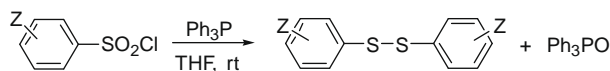
pp 7337–7339

Hai-tao Yang^{*}, Xiao-Jiao Ruan, Chun-bao Miao, Hai-tao Xi, Yan Jiang, Qi Meng, Xiao-qiang Sun^{*}

A new type of stable C₆₀-fused dihydrooxazine derivatives was successfully prepared through the hetero-Diels–Alder reaction of C₆₀ with nitrosoalkenes generated in situ from the corresponding α -bromo oxime by treatment with Na₂CO₃.

**Synthesis of diaryl disulfides via the reductive coupling of arylsulfonyl chlorides**

pp 7340–7342

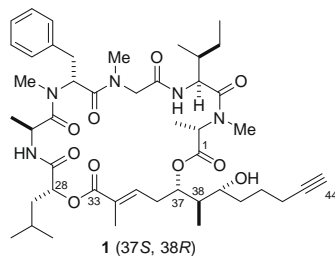
George W. Kabalka^{*}, Marepally Srinivasa Reddy, Min-Liang Yao

Z = Me, OMe, Br, CN, NO₂ etc

A facile synthesis of diaryl disulfides from arylsulfonyl chlorides in the presence of triphenylphosphine has been developed.

Synthesis of palau'amide and its diastereomers: confirmation of its stereostructure

pp 7343–7345

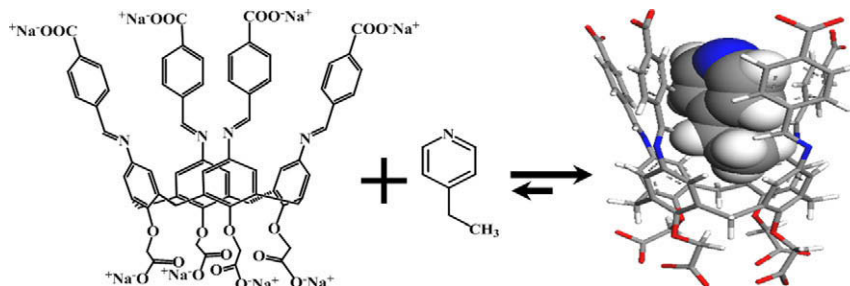
Hirokazu Sugiyama, Atsushi Watanabe, Toshiaki Teruya, Kiyotake Suenaga^{*}

1 (37S, 38R)

Four diastereomers of palau'amide (**1–4**), a cytotoxic cyclodepsipeptide, were synthesized. The ¹H NMR spectrum of **1** was identical to that of natural palau'amide. This established the complete stereostructure of palau'amide.

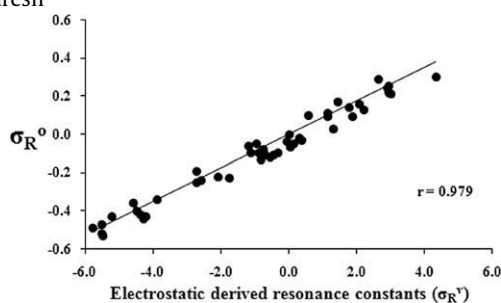
**New water-soluble iminecalix[4]arene with a deep hydrophobic cavity**

pp 7346–7350

Satish Balasaheb Nimse, Junghoon Kim, Van-Thao Ta, Hyung-Sup Kim, Keum-Soo Song, Chan-Yong Jung, Van-Thuan Nguyen, Taisun Kim^{*}

An electrostatic scale of substituent resonance effect

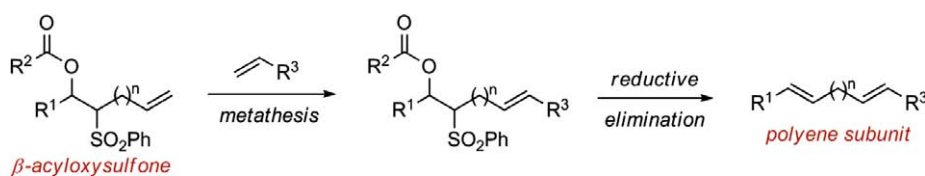
pp 7351–7354

Fareed Bhasha Sayyed, Cherumuttathu H. Suresh^{*}

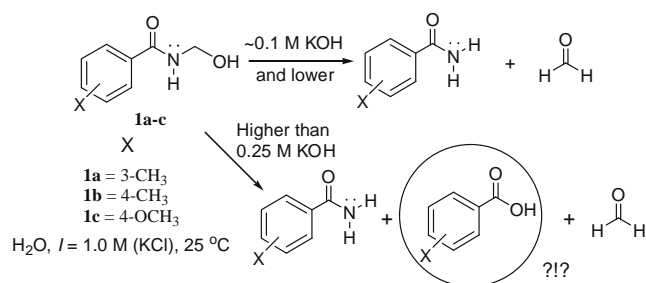
An electrostatic scale to substituent resonance effects is proposed using molecular electrostatic potential and the reliability of electrostatic resonance constants (σ_R^0) is corroborated by three sets of isodesmic reactions.

**Metathesis reactions of β -acyloxysulfones: synthesis of 1,6- and 1,7-dienes**

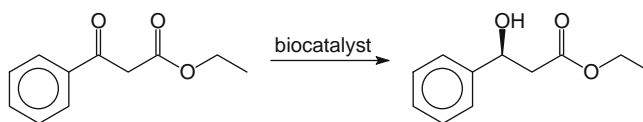
pp 7355–7357

Gregory W. O'Neil^{*}, Daniel J. Moser, Erasmus O. Volz**Rapid amidic hydrolysis: a competitive reaction pathway under basic conditions for *N*-(hydroxymethyl)benzamide derivatives bearing electron-donating groups**

pp 7358–7361

John L. Murphy, William J. Tenn III, Joseph J. Labuda, Richard W. Nagorski^{*}**Immobilized microorganisms in the reduction of ethyl benzoylacetate**

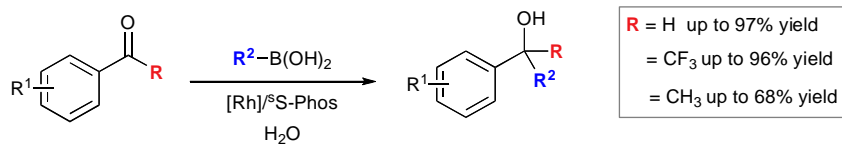
pp 7362–7364

Aline de Souza Ramos, Joyce Benzaquem Ribeiro^{*}, Leonardo Vazquez, Sorele Batista Fiaux, Selma Gomes Ferreira Leite, Maria da Conceição Klaus V. Ramos, Francisco Radler de Aquino Neto, O. A. C. Antunes

The rhodium-catalysed 1,2-addition of arylboronic acids to aldehydes and ketones with sulfonated S-Phos

pp 7365–7368

James R. White, Gareth J. Price, Pawel K. Plucinski, Christopher G. Frost*

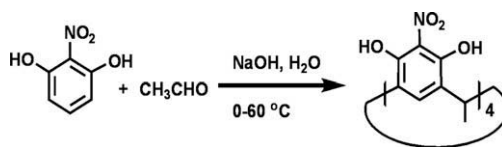


The rhodium-catalysed 1,2-addition of arylboronic acids to aryl aldehydes and ketones has been accomplished in high yield using sulfonated S-Phos, a water-soluble biaryl phosphine ligand which allows for catalyst recycling.

**Tetranitroresorcin[4]arene: synthesis and structure of a new stereoisomer**

pp 7369–7373

N. Kodiah Beyeh, Kari Rissanen*

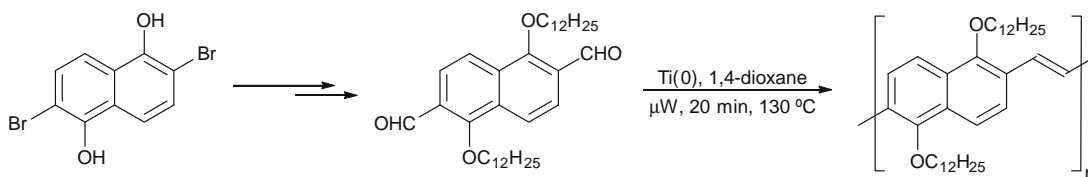


A unique and unprecedented *rcct-boat* conformation of tetranitro-C₁-resorcin[4]arene was isolated from the reaction of 2-nitroresorcinol and acetaldehyde.

Microwave-assisted McMurry polymerization utilizing low-valent titanium for the synthesis of poly 2,6-[1,5-bis(dodecyloxy)naphthylene vinylene] (PNV)

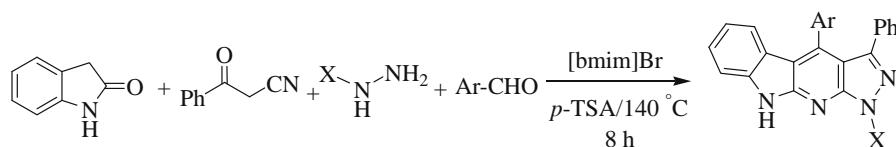
pp 7374–7378

Henrik Thomas, Nicolai Stuhr-Hansen*, Fredrik Westerlund, Bo W. Laursen, Magnus Magnussen, Henning O. Sørensen, Thomas Bjørnholm, Jørn B. Christensen

**A one-pot, four-component synthesis of α-carboline derivatives**

pp 7379–7381

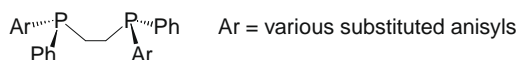
Ramin Ghahremanzadeh, Somayeh Ahadi, Ayoob Bazgir*



Study of incidence of DiPAMP ligand modification on the rhodium(I)-catalyzed asymmetric hydrogenation of α -acetamidostyrene

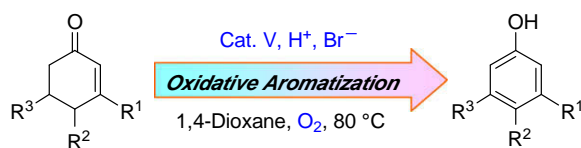
pp 7382–7384

Borut Zupančič, Barbara Mohar*, Michel Stephan*

**Vanadium-catalyzed oxidative aromatization of 2-cyclohexenones under molecular oxygen**

pp 7385–7387

Toshiyuki Moriuchi*, Kotaro Kikushima, Tomomi Kajikawa, Toshikazu Hirao*

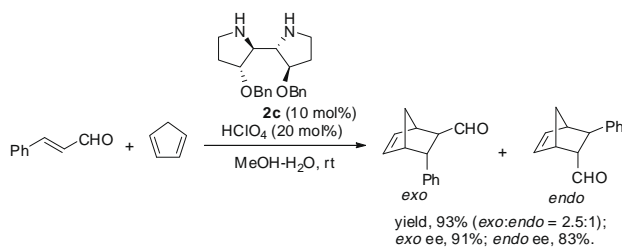


An efficient catalytic oxidative aromatization of 2-cyclohexenones was achieved by using a commercially available inexpensive ligand-free vanadium catalyst, an acid, and a bromide source under atmospheric oxygen.

**C₂-Symmetric bipyrolidines as organocatalysts for asymmetric Diels–Alder reactions**

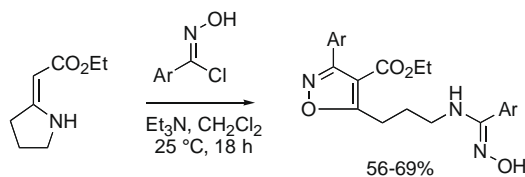
pp 7388–7391

Yuanhui Ma, Yong Jian Zhang*, Shangbin Jin, Qiqi Li, Chenguang Li, Junseong Lee, Wanbin Zhang*

**Reactions of alkylidenepyrrolidines with α -chlorooximes and α -chlorohydrazones**

pp 7392–7394

Cevher Altuğ, Yasar Dürüst, Mark C. Elliott*



A mild oxidative method for the preparation of γ -hydroxy- α -nitroolefins from α,β -epoxyketoximes using IBX


pp 7395–7398

Alba Souto, Jaime Rodríguez*, Carlos Jiménez*



An efficient method for the preparation of γ -hydroxy- α -nitroolefins from α,β -epoxyketoximes has been developed using IBX.

*Corresponding author

 Supplementary data available via ScienceDirect

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS[®]. Full text available on ScienceDirect[®]



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