

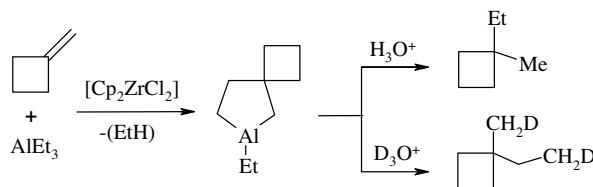
Contents

COMMUNICATIONS

Dzhemilev reaction for the synthesis of spiro[3.3]heptane and spiro[3.4]octanes

pp 8583–8586

Vladimir A. D'yakonov,* Evgeniy Sh. Finkelshtein and Askhat G. Ibragimov

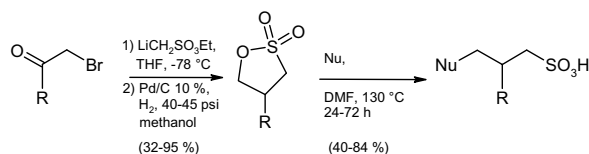


For the first time cycloaluminum of methylenecyclobutane with the aid of Et_3Al in the presence of Cp_2ZrCl_2 leading to 6-ethyl-6-aluminaspiro[3.4]octane has been realized. The latter, without isolation, was converted into spiro[3.3]heptane and spiro[3.4]octanes.

A novel synthetic route to 2-alkylpropane-1,3-sultones and its application to the synthesis of 2-alkyl derivatives of tramiprosate

pp 8587–8589

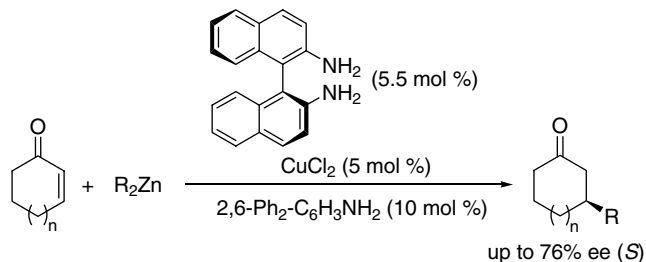
Benoit Bachand,* Mohamed Atfani, Bitia Samim, Sophie Lévesque, Daniel Simard and Xianqi Kong



Enantioselective conjugate addition of dialkylzinc to cyclic enones catalyzed by chiral binaphthyldiamine–copper(I) complexes

pp 8590–8594

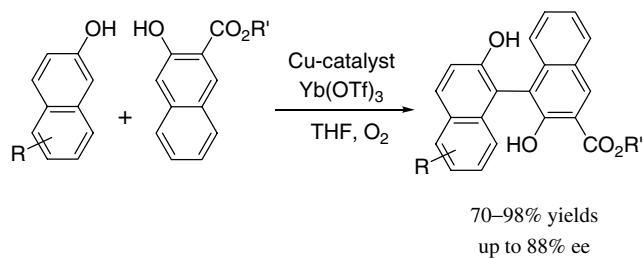
Manabu Hatano, Takafumi Asai and Kazuaki Ishihara*



Ytterbium triflate-assisted catalytic oxidative cross-coupling of 2-naphthol derivatives

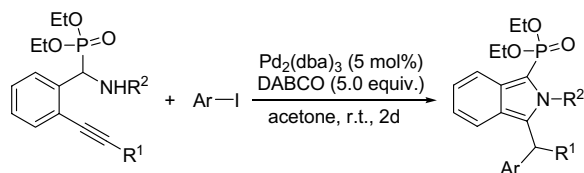
pp 8595–8598

Shigeki Habaue,* Tomohisa Temma, Yukihiro Sugiyama and Pei Yan

**Synthesis of isoindol-1-ylphosphonate derivatives via Pd(0)-catalyzed reaction of α -amino (2-alkynylphenyl) methylphosphonate with aryl iodide**

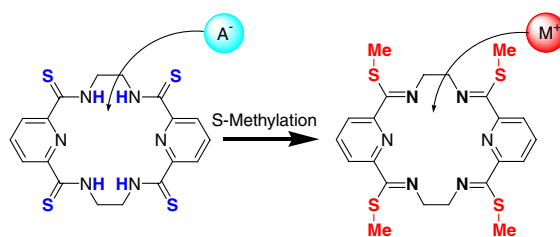
pp 8599–8602

Qiuping Ding, Bing Wang* and Jie Wu*

**S-Methylation of polythiolactam: chemical transformation of macrocyclic anion receptor into new macrocyclic ligand for metal ions**

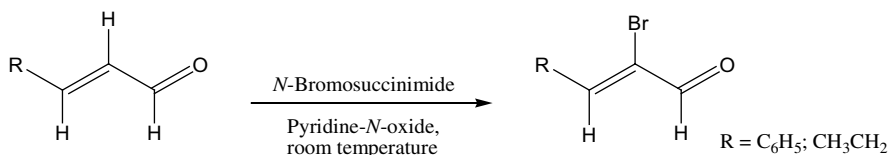
pp 8603–8606

Junichi Sawada, Ken Okamoto, Takakazu Yamamoto and Takaki Kanbara*

 **α -Bromination of linear enals and cyclic enones**

pp 8607–8610

Pakorn Bovonsombat,* Rungkarn Rujiwarangkul, Thanathip Bowornkiengkai and Juthamard Leykajarakul

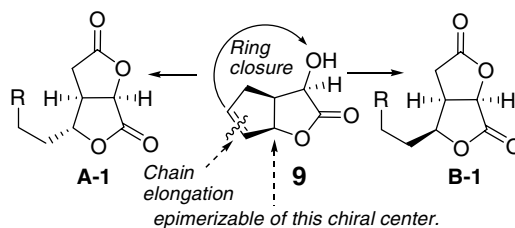


Facile direct α -bromination of cyclic enones and enals involving *N*-bromosuccinimide and pyridine-*N*-oxide is reported.

4-endo-Hydroxy-2-oxabicyclo[3.3.0]oct-7-en-3-one as a useful building block in the formal total syntheses of furofurandione natural products

pp 8611–8614

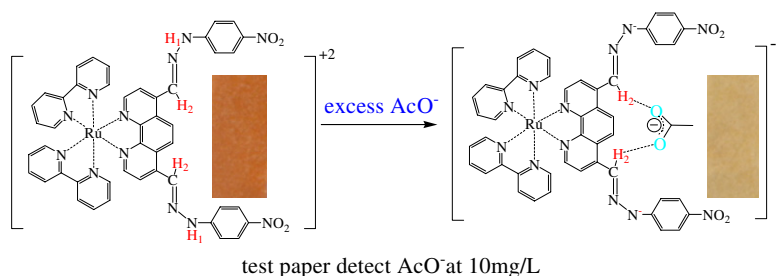
Yung-Son Hon* and Hsien-Fan Chen



Color responses of novel receptors for AcO⁻ and a test paper for AcO⁻ in pure aqueous solution

pp 8615–8618

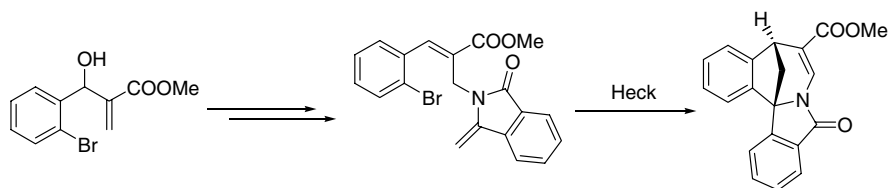
Xudong Yu, Hai Lin, Zunsheng Cai and Huakuan Lin*



Pd-mediated synthesis of novel pentacyclic benzoazepino[2,1-a]isoindoles from enamides of Baylis–Hillman adducts

pp 8619–8622

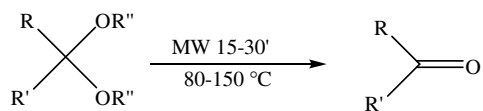
Saravanan Gowrisankar, Hyun Seung Lee, Ka Young Lee, Ji-Eun Lee and Jae Nyoung Kim*



Simple and efficient MW-assisted cleavage of acetals and ketals in pure water

pp 8623–8627

Antonio Procopio,* Marco Gaspari, Monica Nardi, Manuela Oliverio, Antonio Tagarelli and Giovanni Sindona

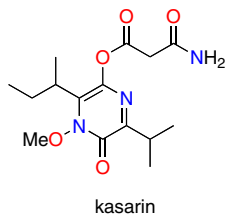


R= alkyl or aryl; R'=R or H; R''= CH₃-, CH₃CH₂-, or -CH₂CH₂-

Simple and efficient MW-assisted cleavage of acetal and ketal is proposed in deionized water and in a very short time.

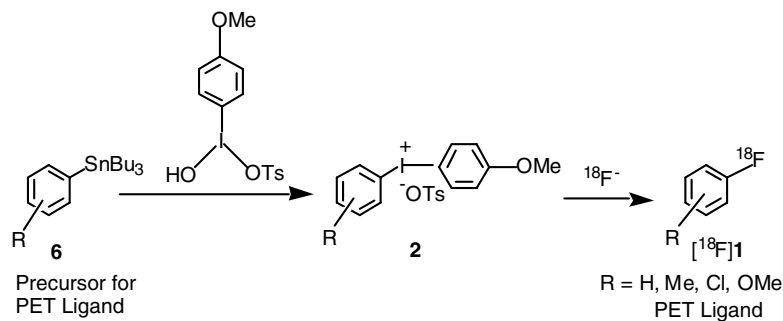
Revised structure of kasarin, an antibacterial pyrazinone compound from the marine microorganism *Hyphomycetes* sp. pp 8628–8631

Masaki Kita, Ryoka Miwa, Triana Widiyanti, Yoshikazu Ozaki, Sachiko Aoyama, Kaoru Yamada and Daisuke Uemura*



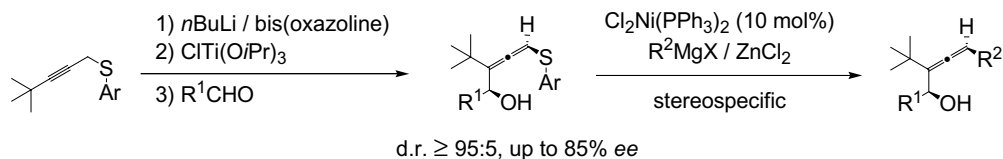
A practical route for synthesizing a PET ligand containing [¹⁸F]fluorobenzene using reaction of diphenyliodonium salt with [¹⁸F]F⁻ pp 8632–8635

Ming-Rong Zhang,* Katsushi Kumata and Kazutoshi Suzuki



Asymmetric lithiation of 2-alkynyl aryl sulfides—Enantio- and diastereoselective formation of allenyl aryl sulfides and their application in nickel-catalyzed cross-coupling reactions pp 8636–8642

Ralf Otte, Birgit Wibbeling, Roland Fröhlich, Shuichi Nakamura, Norio Shibata, Takeshi Toru* and Dieter Hoppe*



Allenyl aryl sulfides are synthesized enantio- and diastereoselectively by asymmetric lithiation of 2-alkynyl aryl sulfides. Subsequent nickel-catalyzed coupling reactions afforded threefold carbon-substituted allenes.

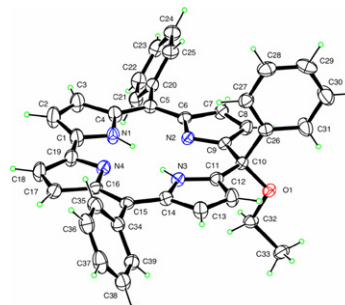


One-step synthesis of isocorroles

pp 8643–8646

Sara Nardis,* Giuseppe Pomarico, Frank R. Fronczek, Maria Graça H. Vicente and Roberto Paolesse

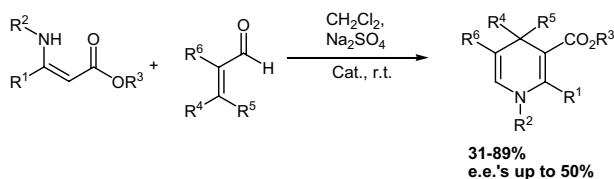
Reaction of triarylcorroles with DDQ gives two isocorroles, with the interruption of conjugation at the 5 or 10 position, representing a facile synthetic route for the preparation these macrocycles.



Metal-free Brønsted acids catalyzed synthesis of functional 1,4-dihydropyridines

pp 8647–8650

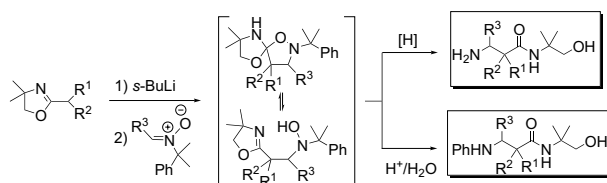
Julie Moreau, Agathe Duboc, Claudie Hubert, Jean-Pierre Hurvois and Jean-Luc Renaud*



Oxazoline-mediated highly stereoselective synthesis of α,β -substituted- β -aminoalkanamides, potential precursors of unnatural $\beta^{2,2,3}$ -amino acids

pp 8651–8654

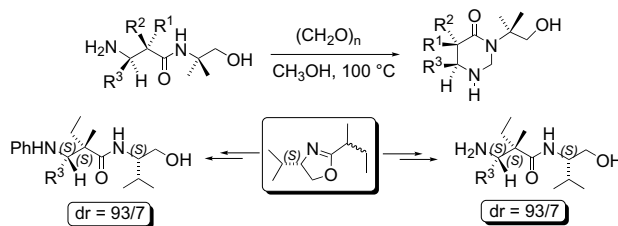
Vito Capriati, Leonardo Degennaro, Saverio Florio* and Renzo Luisi



Asymmetric synthesis of α,β -substituted β -aminoalkanamides and stereochemical determination

pp 8655–8658

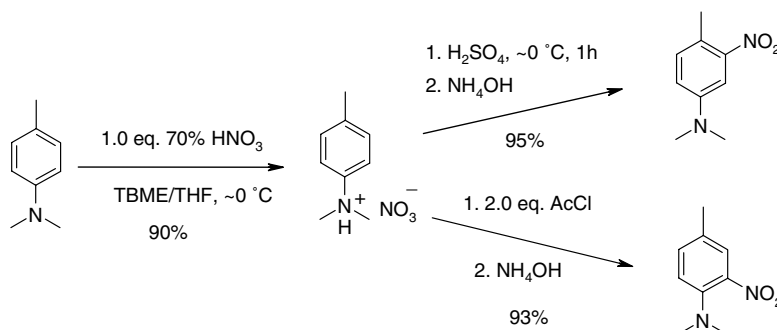
Vito Capriati, Leonardo Degennaro, Saverio Florio,* Renzo Luisi and Corrado Cuocci



Mono-nitration of aromatic compounds via their nitric acid salts

pp 8659–8664

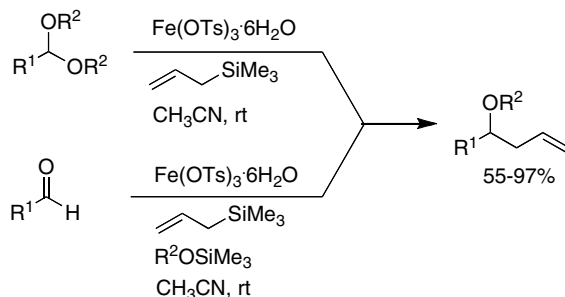
Pingsheng Zhang,* Miall Cedilote, Thomas P. Cleary and Michael E. Pierce



Iron(III) *p*-toluenesulfonate catalyzed synthesis of homoallyl ethers from acetals and aldehydes

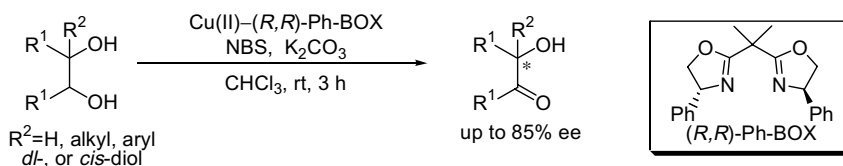
pp 8665–8667

Matthew J. Spafford, Erin D. Anderson, Joshua R. Lacey, Ann C. Palma and Ram S. Mohan*

**Asymmetric oxidation of 1,2-diols using *N*-bromosuccinimide in the presence of chiral copper catalyst**

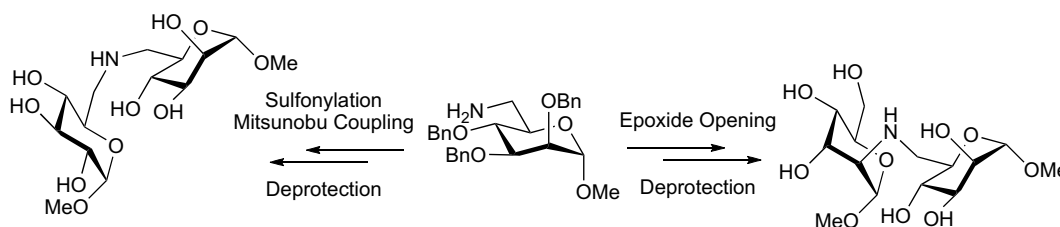
pp 8668–8672

Osamu Onomura,* Hitomi Arimoto, Yoshihiro Matsumura and Yosuke Demizu

**Investigations into the synthesis of amine-linked neodisaccharides**

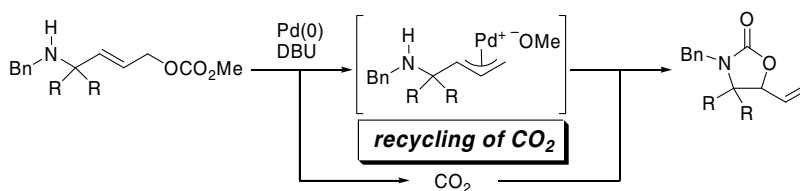
pp 8673–8677

Tashfeen Akhtar and Ian Cumpstey*

**Synthesis of vinyloxazolidinones by palladium-catalyzed CO₂-recycling reaction of 4-(benzylamino)-2-butenyl carbonates**

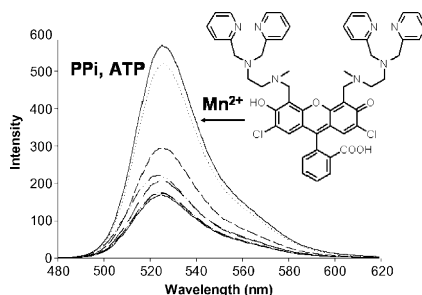
pp 8678–8682

Masahiro Yoshida,* Yusuke Ohsawa, Kenji Sugimoto, Hidetoshi Tokuyama and Masataka Ihara



Fluorescent sensing of pyrophosphate and ATP in 100% aqueous solution using a fluorescein derivative and Mn²⁺ pp 8683–8686

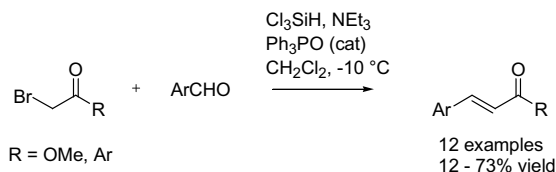
K. M. K. Swamy, Soo Kyung Kwon, Ha Na Lee, S. M. Shantha Kumar, Jong Seung Kim and Juyoung Yoon*



A one-pot silyl-Reformatsky olefination

pp 8687–8690

James M. Smith and Michael F. Greaney*

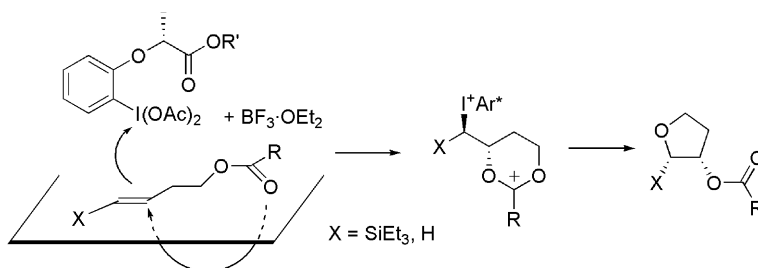


A novel one-pot olefination reaction has been developed using α -bromocarbonyl compounds, aromatic aldehydes and a reagent combination of trichlorosilane and triethylamine. The general procedure offers key advantages (high conversions, low quantities of organic soluble by-products) over the conventional Wittig reaction.

Enantiodifferentiating tetrahydrofuranylation of but-3-enyl carboxylates using optically active hypervalent iodine(III) reagents via a 1,3-dioxan-2-yl cation intermediate

pp 8691–8694

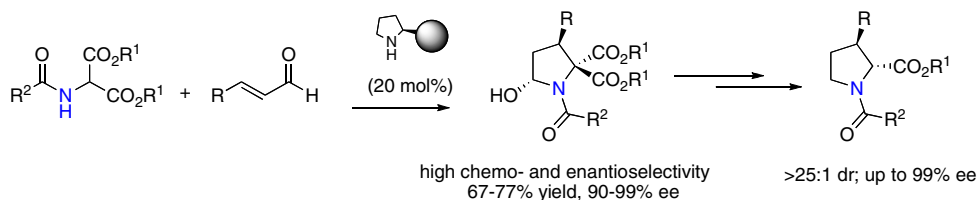
Morifumi Fujita,* Sakuro Okuno, Hee Jin Lee, Takashi Sugimura and Tadashi Okuyama



Organocatalytic asymmetric 5-hydroxypyrrolidine synthesis: a highly enantioselective route to 3-substituted proline derivatives

pp 8695–8699

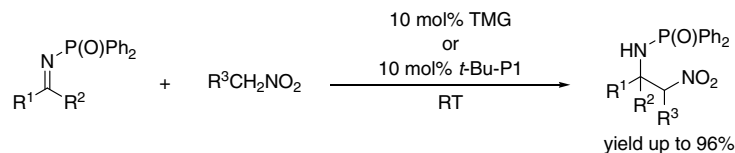
Ramon Rios,* Ismail Ibrahim, Jan Vesely, Henrik Sundén and Armando Córdova*



Aza-Henry reaction of ketimines catalyzed by guanidine and phosphazene bases

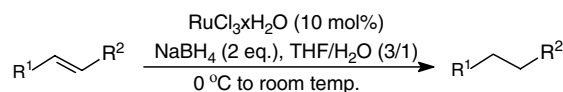
pp 8700–8703

Nirmal K. Pahadi, Hitoshi Ube and Masahiro Terada*

**Selective reduction of mono- and disubstituted olefins by NaBH₄ and catalytic RuCl₃**

pp 8704–8708

Pawan K. Sharma,* Surender Kumar, Pawan Kumar and Poul Nielsen

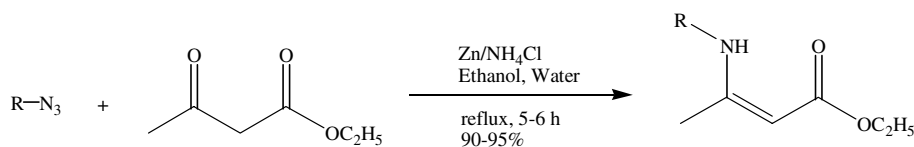


The use of the relatively inexpensive reagent, RuCl₃ × H₂O, as a catalyst in combination with NaBH₄, for reductions of olefins in the presence of water is reported.

An efficient synthesis of vinylogous carbamates from alkyl azides

pp 8709–8711

Akundi Surya Prabhakar, Suthrapu Sashikanth, Padi Pratap Reddy and Praveen Cherukupally*

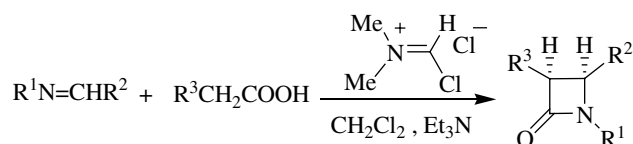


An improved and efficient one-pot synthesis of vinylogous carbamates is reported starting from alkyl azides by using NH₄Cl/Zn dust.

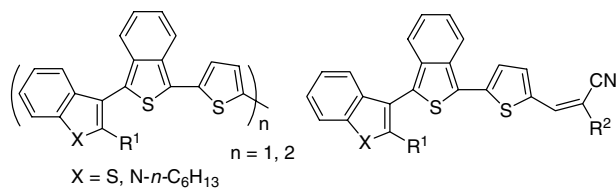
The Vilsmeier reagent as an efficient acid activator for the synthesis of β-lactams

pp 8712–8714

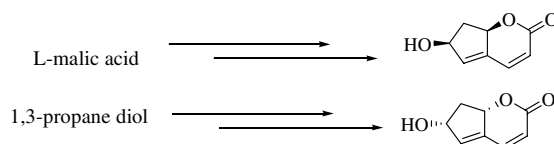
Aliasghar Jarrahpour* and Maarroof Zarei



Synthesis of 1,3-disubstituted benzo[*c*]thiophene analogs containing benzo[*b*]thiophene/benzo[*b*]pyrrole pp 8715–8720
 Arasambattu K. Mohanakrishnan,* J. Arul Clement, P. Amaladass and V. S. Thirunavukkarasu



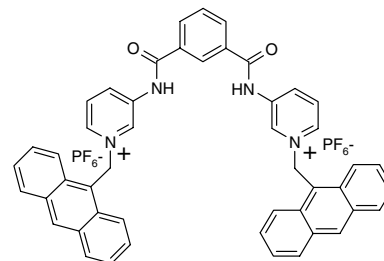
Studies directed towards the stereoselective total synthesis of ilexactone via a tandem ring-closing enyne metathesis protocol pp 8721–8724
 Palakodety Radha Krishna* and M. Narsingam



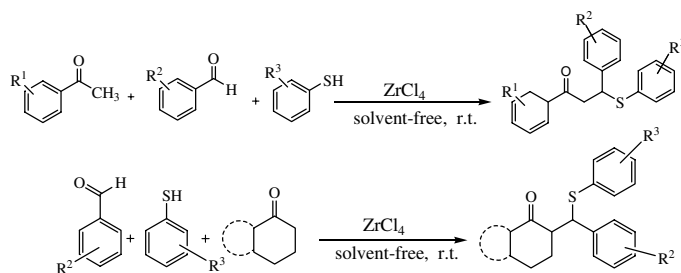
Studies directed towards the stereoselective total synthesis of ilexactone resulted in the synthesis of bicyclic systems through tandem ring-closing enyne metathesis as the key step.

An anthracene based bispyridinium amide receptor for selective sensing of anions pp 8725–8729
 Kumaresh Ghosh,* Avik Ranjan Sarkar and Goutam Masanta

A new receptor has been designed and synthesized for selective recognition of anions through hydrogen bonding and electrostatic interactions. The recognition ability has been studied by fluorescence, UV–vis and ¹H NMR spectroscopic methods. The results demonstrate that the receptor exhibits good recognition ability towards anions and shows strong binding to AcO[−], H₂PO₄[−] and F[−].



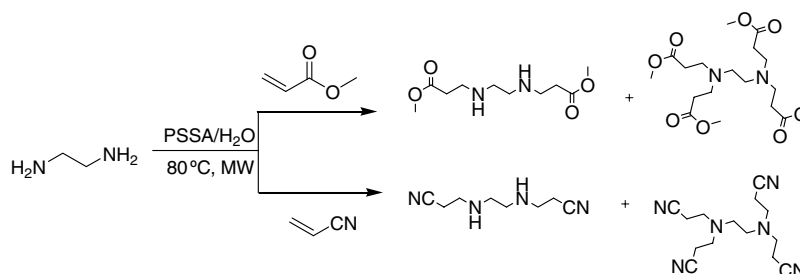
Multicomponent, solvent-free synthesis of β-aryl-β-mercapto ketones using zirconium chloride as a catalyst pp 8730–8734
 Atul Kumar* and Akanksha



Tandem bis-aza-Michael addition reaction of amines in aqueous medium promoted by polystyrenesulfonic acid

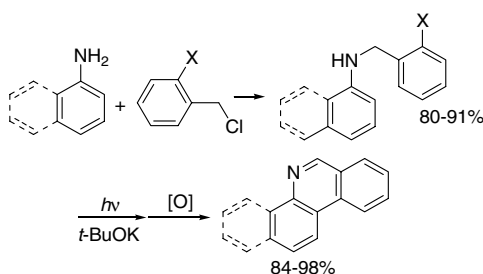
pp 8735–8738

Vivek Polshettiwar and Rajender S. Varma*


Syntheses of phenanthridines and benzophenanthridines by intramolecular *ortho*-arylation of aryl amide ions with aryl halides via S_{RN}1 reactions

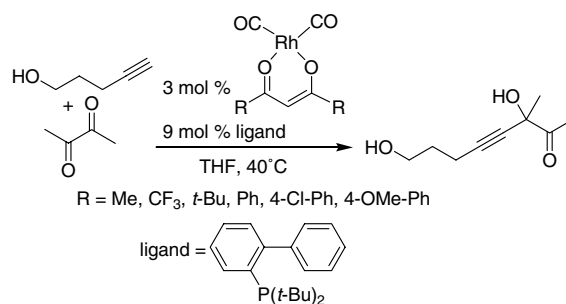
pp 8739–8742

Maria E. Budén and Roberto A. Rossi*


Ligand effects in the rhodium-catalyzed addition of alkynes to aldehydes and diketones. Modification of the β-diketonate ligand

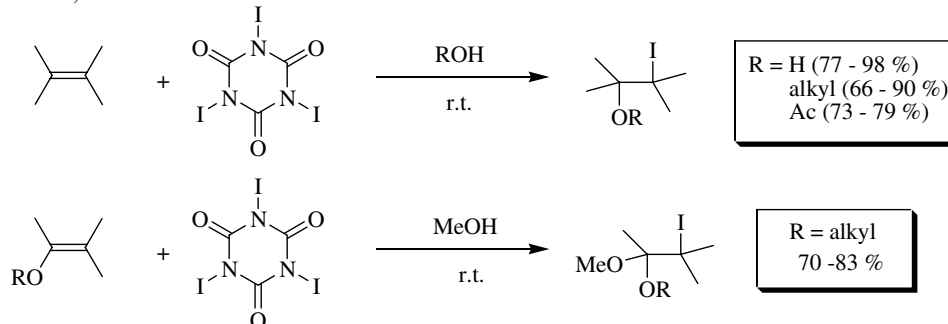
pp 8743–8746

Pawan K. Dhondi, Patrick Carberry and John D. Chisholm*


Triiodoisocyanuric acid: a new and convenient reagent for regioselective coiodination of alkenes and enolethers with oxygenated nucleophiles

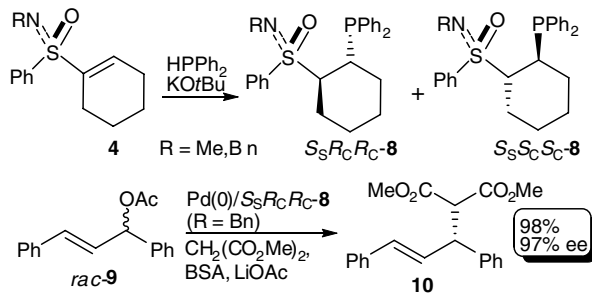
pp 8747–8751

Rodrigo da S. Ribeiro, Pierre M. Esteves* and Marcio C. S. de Mattos*



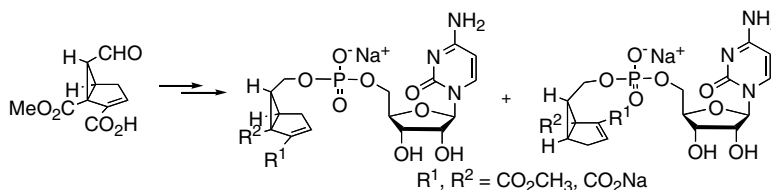
Synthesis of 1,5-*P,N*-phosphino-sulfoximines through phospho-Michael reaction of alkenyl sulfoximines and their evaluation as ligands in palladium-catalyzed allylic alkylation pp 8752–8756

Fabien Lemasson, Hans-Joachim Gais* and Gerhardt Raabe



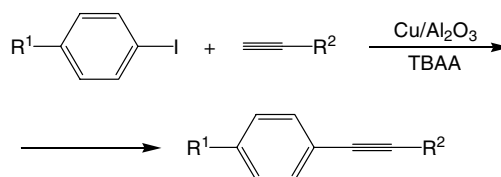
Synthetic studies of new CMP–sialic acid analogues applying a novel buffer-mediated rearrangement pp 8757–8760

Satomi Niwayama,* Venkata Subbarao Kandula, Hezhen Wang and Xiao Chen



Supported copper precatalysts for ligand-free, palladium-free Sonogashira coupling reactions pp 8761–8764

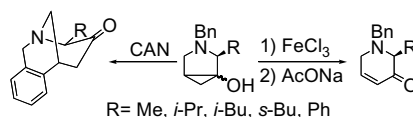
Andrea Biffis,* Elena Scattolin, Nicoletta Ravasio* and Federica Zaccheria



Copper species such as highly dispersed copper(II) oxide and, most notably, Cu metal on alumina are found to act as efficient precatalysts for Sonogashira coupling reactions of aryl iodides.

Azabicyclo[3.1.0]hexane-1-ols as frameworks for the asymmetric synthesis of biologically active compounds pp 8765–8767

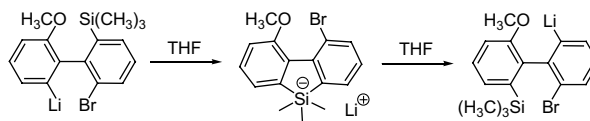
Mouhamad Jida, Régis Guillot and Jean Ollivier*



Azabicyclo[3.1.0]hexane-1-ols, accessible from amino acid derivatives by Ti(IV)-promoted cyclopropanation, can provide chiral dihydropyridinones or piperidinones, depending on the experimental conditions.

Relative carbanion basicities as driving force for an intramolecular silyl migration of lithiated biphenyls pp 8768–8772

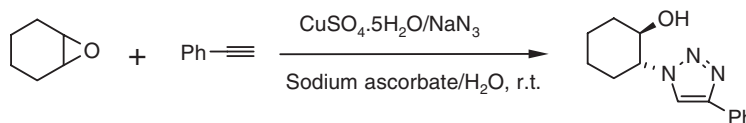
Laurence Bonnafoux, Rosario Scopelliti, Frédéric R. Leroux* and Françoise Colobert



A solvent-dependent silyl migration of lithiated biphenyls is described.

Three component, regioselective, one-pot synthesis of β -hydroxytriazoles from epoxides via ‘click reactions’ pp 8773–8776

J. S. Yadav,* B. V. Subba Reddy, G. Madhusudhan Reddy and D. Narasimha Chary



*Corresponding author

Supplementary data available via ScienceDirect

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