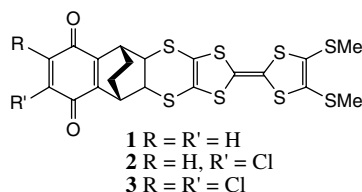


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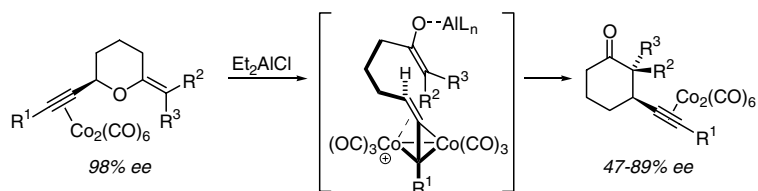
Evgeny Tsiperman, James Y. Becker* and Vladimir Khodorkovsky*



The synthesis, spectral and electrochemical properties of a series of TTF- σ -PBQ derivatives, along with a demonstration of the fine-tuning of the degree of charge transfer in these systems, are reported.

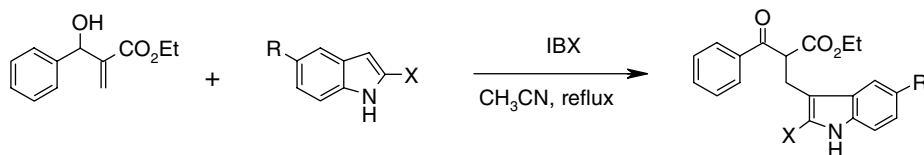
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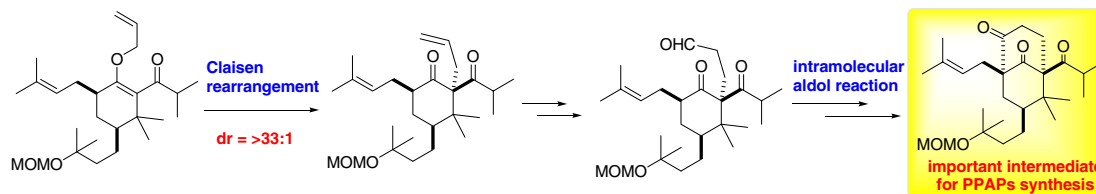
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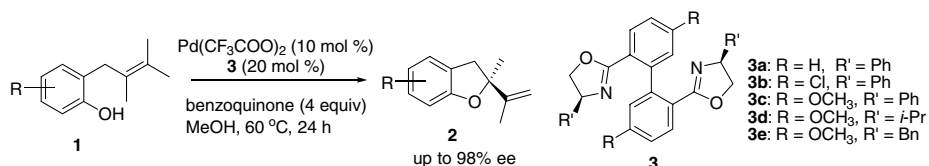
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Yohei Shimizu, Akiyoshi Kuramochi, Hiroyuki Usuda, Motomu Kanai* and Masakatsu Shibasaki*



Highly enantioselective Pd(II)-catalyzed Wacker-type cyclization of 2-allylphenols by use of bisoxazoline ligands with axis-unfixed biphenyl backbone pp 4179–4182

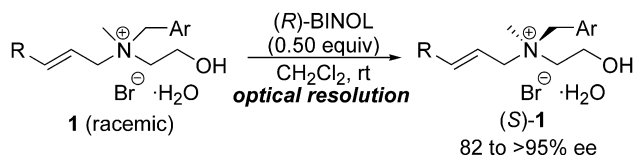
Feijun Wang, Yong Jian Zhang, Guoqiang Yang and Wanbin Zhang*



A series of axis-unfixed bisoxazoline ligands with different steric and electronic properties was synthesized and applied in Pd(II)-catalyzed intramolecular Wacker-type cyclization of allylphenols with high catalytic activity and excellent enantioselectivity (up to 98% ee).

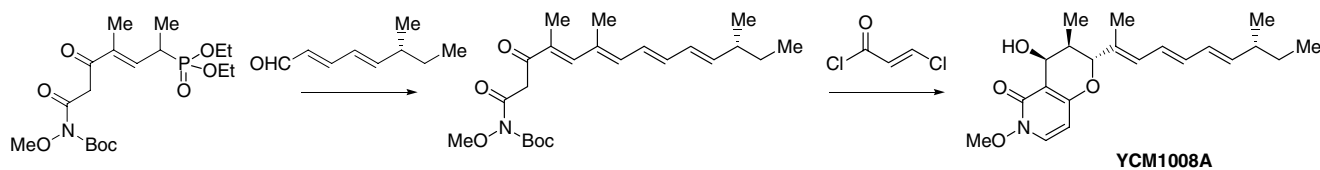
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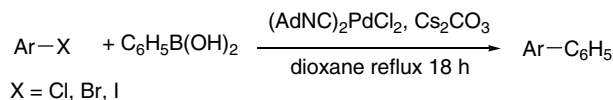
Kuniaki Tatsuta,* Takahiro Yamaguchi, Yusuke Tsuda, Yumiko Yamaguchi, Nobutaka Hattori, Hiroshi Nagai and Seiji Hosokawa



Isonitriles as efficient ligands in Suzuki–Miyaura reaction

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Didier Villemin,* Arnaud Jullien and Nathalie Bar

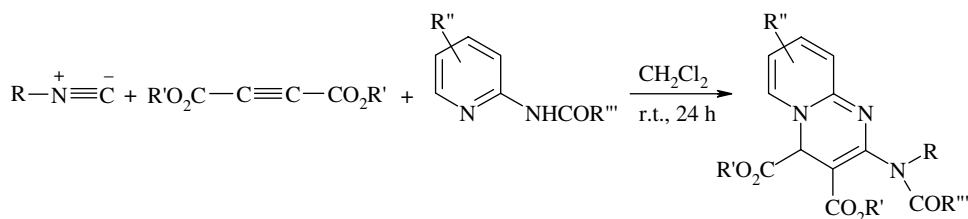


Isonitrile palladium complexes [(RNC)₂PdCl₂] were prepared and tested in Suzuki reaction of 4-chloroanisole. (AdNC)₂PdCl₂ was found the most efficient and was used in phenylation of chloro and bromo aromatic substrates.

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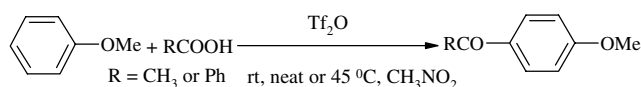
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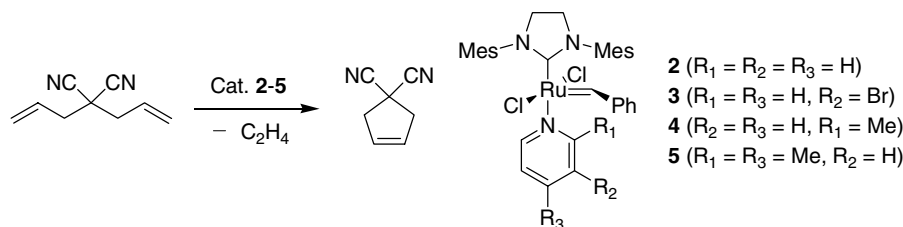
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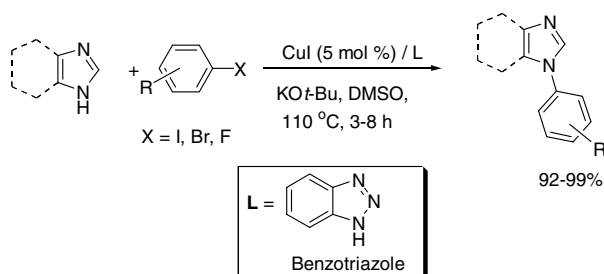
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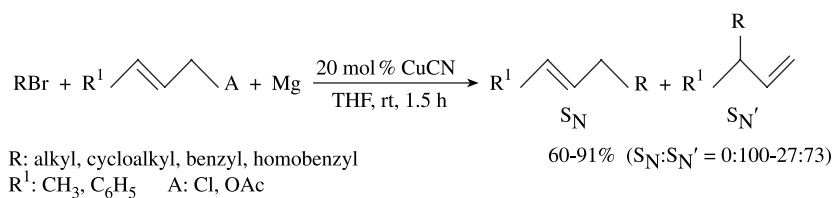
Benzotriazole: an excellent ligand for Cu-catalyzed N-arylation of imidazoles with aryl and heteroaryl halides pp 4207–4210

Akhilesh Kumar Verma,* Jaspal Singh, V. Kasi Sankar, Ritu Chaudhary and Ramesh Chandra

Benzotriazole is an efficient and inexpensive ligand for the N-arylation of imidazoles with aryl and heteroaryl halides using mild reaction conditions.

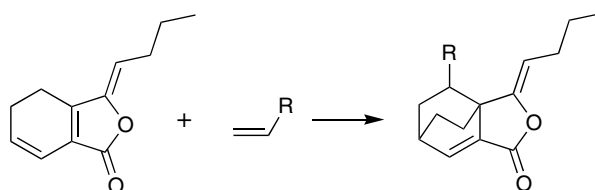

Copper catalyzed magnesium-Barbier reaction for γ -selective alkyl-allyl coupling pp 4211–4214

Ender Erdik* and Melike Koçoğlu

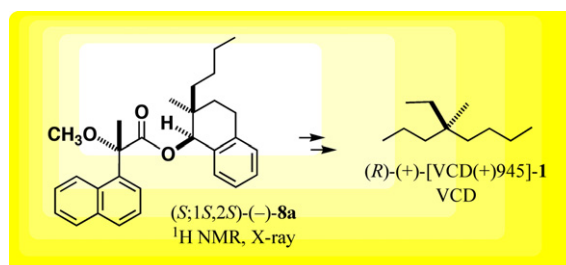

 CuCN catalyzed alkyl-allyl coupling under magnesium-Barbier conditions occurs regioselectively and affords predominantly, or exclusively, γ -products in good to high yields.

Diels–Alder adducts derived from the natural phthalide Z-ligustilide pp 4215–4218

Erik Lager, Anders Sundin, Rubén A. Toscano, Guillermo Delgado and Olov Sterner*


(R)-(+)-[VCD(+945)]-4-Ethyl-4-methyloctane, the simplest chiral saturated hydrocarbon with a quaternary stereogenic center pp 4219–4222

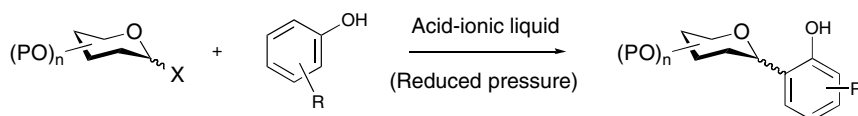
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Aryl C-glycosylation using an ionic liquid containing a protic acid

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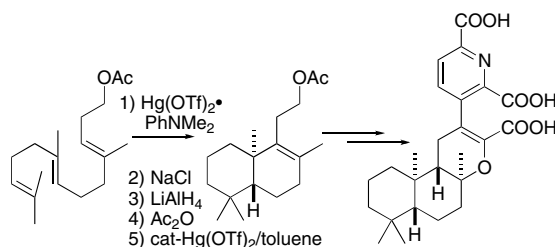
Chigusa Yamada, Kaname Sasaki, Shuichi Matsumura and Kazunobu Toshima*



Total synthesis and morphogenesis-inducing activity of (±)-thallusin and its analogues

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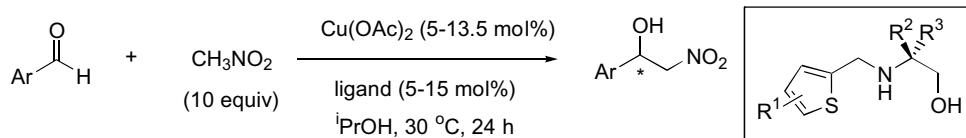
Mugio Nishizawa,* Tomoaki Iyenaga, Takahiro Kurisaki, Hirofumi Yamamoto, Mohammed Sharfuddin, Kosuke Namba, Hiroshi Imagawa, Yoshikazu Shizuri and Yoshihide Matsuo



Novel thiolated amino-alcohols as chiral ligands for copper-catalyzed asymmetric nitro-aldol reactions

pp 4235–4238

Woraluk Mansawat, Ittiphol Saengswang, Palita U-prasitwong, Worawan Bhanthumnavin and Tirayut Vilaivan*



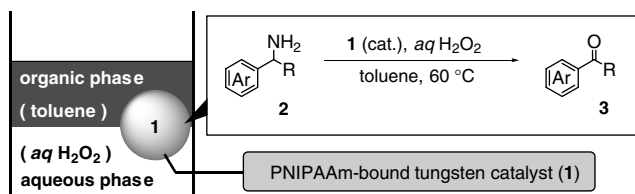
Thiolated amino-alcohols have been synthesized and evaluated as a potential new class of chiral ligands for copper-catalyzed nitro-aldol reactions. A range of aromatic aldehydes was acceptable for the nitro-aldol reaction with nitromethane, giving moderate to good enantioselectivities (69–88% ee).



Direct transformation of benzylic amines to carbonyls using polyacrylamide-bound tungstate under phase-transfer catalysis conditions

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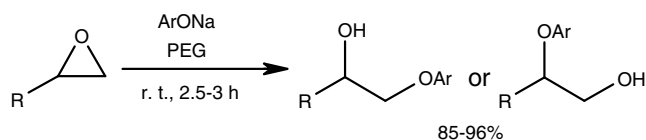
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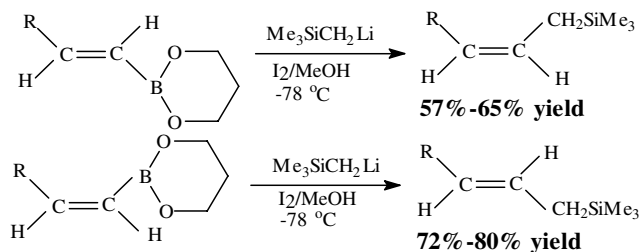
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Biswanath Das,* Maddeboina Krishnaiah, Ponnaboina Thirupathi and Keetha Laxminarayana

**Novel diastereoselective synthesis of (*E*)- and (*Z*)-allylsilanes via organoboranes**

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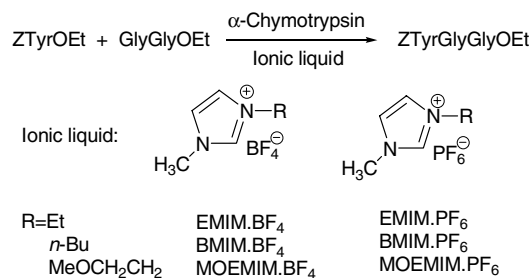
Narayan G. Bhat,* Wendy C. Lai and Matthew B. Carroll

**Peptide bond formation catalyzed by α -chymotrypsin in ionic liquids**

pp 4271–4274

Guo-wen Xing,* Feng-yun Li, Cong Ming and Li-nan Ran

α -Chymotrypsin catalyzed peptide bond formation was studied in ionic liquids using the synthesis of a protected fragment of Leu-enkephalin, ZTyrGlyGlyOEt, as model reaction. MOEMIM·PF₆ was found to be the most favorable solvent among the six different 1-alkyl-3-methylimidazolium hexafluorophosphates and tetrafluoroborates ionic liquids screened. With MOEMIM·PF₆ as reaction media, several di- or tripeptide derivatives were successfully prepared in 68–75% isolated yields.

**Calix[4]pyrrole–TCBQ assembly: a signal magnifier of TCBQ for colorimetric determining amino acids and amines**

pp 4275–4279

Kai Liu, Lijun He, Xiaoming He, Yong Guo, Shijun Shao* and Shengxiang Jiang



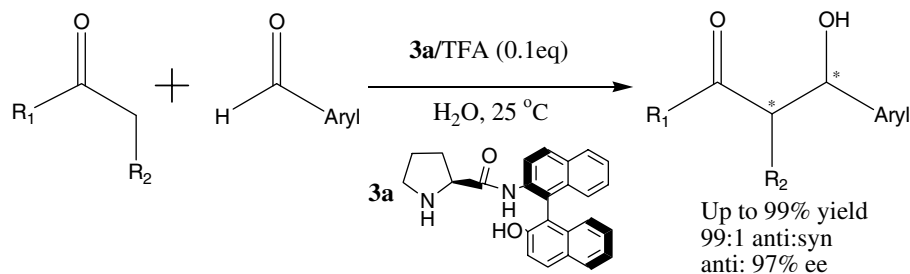
Calix[4]pyrrole-based supramolecular assemblies, formed by the π - π CT interaction between calix[4]pyrroles and TCBQ, can be used for selective sensing of amino acids and amines by visual color changes in an unbuffered water-containing media at room temperature.



Rationally designed organocatalyst for direct asymmetric aldol reaction in the presence of water

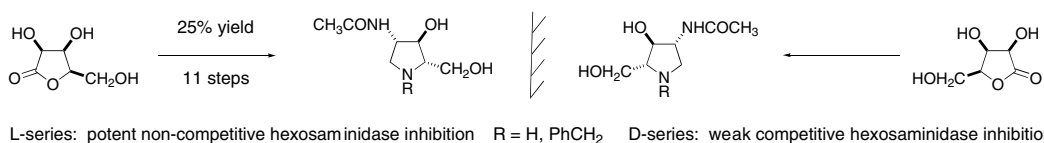
pp 4281–4285

Chao Wang, Yi Jiang,* Xiao-xia Zhang, Yi Huang, Bo-gang Li and Guo-lin Zhang*

**Efficient synthesis from D-lyxonolactone of 2-acetamido-1,4-imino-1,2,4-trideoxy-L-arabinitol LABNAc, a potent pyrrolidine inhibitor of hexosaminidases**

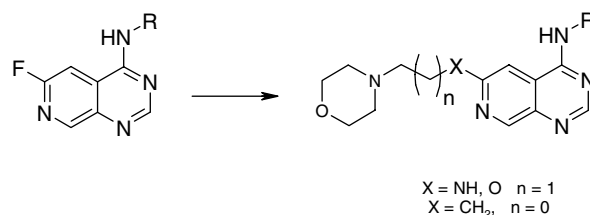
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J. S. Shane Rountree, Terry D. Butters, Mark R. Wormald, Raymond A. Dwek, Naoki Asano, Kyoko Ikeda, Emma L. Evinson, Robert J. Nash and George W. J. Fleet*

**Microwave-assisted synthesis of mGluR1 ligands: carbon, nitrogen and oxygen linked derivatives of pyrido[3,4-d]pyrimidin-4-ylamines**

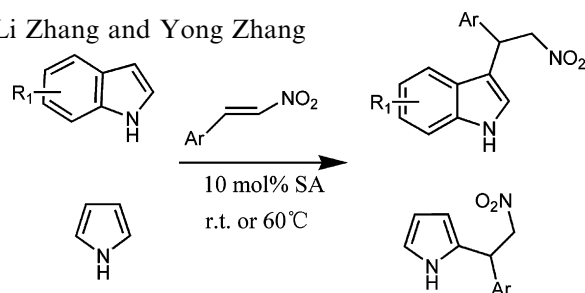
pp 4293–4296

Gareth W. Harbottle,* Neil Feeder, Karl R. Gibson, Mel Glossop, Graham N. Maw, William A. Million, Florence F. Morel, Simon Osborne and Cedric Poinard

**Sulfamic acid-catalyzed Michael addition of indoles and pyrrole to electron-deficient nitroolefins under solvent-free condition**

pp 4297–4300

Li-Tao An, Jian-Ping Zou,* Li-Li Zhang and Yong Zhang



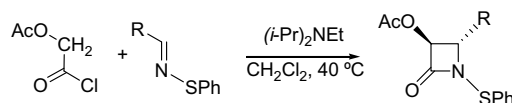
Sulfamic acid (SA) effectively catalyze the Michael addition of indoles and pyrrole to nitroolefins under solvent-free condition to afford the corresponding Michael adducts in good to excellent yields.



Stereoselective synthesis of trans-disubstituted- β -lactams from *N*-phenylsulfenylimines

pp 4301–4303

Stéphanie Coantic, Dominique Mouysset, Serge Mignani, Michel Tabart and Lucien Stella*

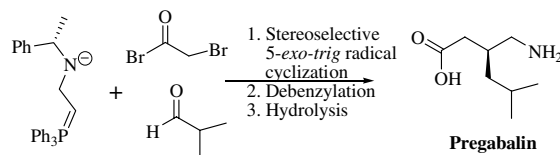


R = *i*-Pr, *t*-Bu, Ph, *p*-CN-Ph, *p*-NO₂-Ph, *p*-Me-CO₂Ph, *p*-MeO-Ph, *p*-MeS-Ph, *p*-F-Ph, *m*-F-Ph, *o*-CF₃-Ph, 2-furfuryl, 2-thiophenyl, 2-pyrrolyl

**Stereoselective 5-*exo-trig* radical cyclization in the enantioselective synthesis of Pregabalin**

pp 4305–4308

Verónica Rodríguez, Leticia Quintero and Fernando Sartillo-Piscil*



A practical stereoselective 5-*exo-trig* radical cyclization procedure was developed in order to prepare enantiomerically pure GABA derivative precursors (4-alkyl-pyrrolidin-2-ones). This procedure allows much more rapid access to optically pure GABA derivatives, such as the powerful antiepileptic agent (*S*)-(+)-3-aminomethyl-5-methylhexanoic acid (Pregabalin).



*Corresponding author

Supplementary data available via ScienceDirect

COVER

The first total synthesis of YCM1008A, a new Ca²⁺-signaling inhibitor, has been achieved. The *N*-methoxy pyrano-pyridone moiety was synthesized by successive O- and N-conjugate additions with diketoamide. The absolute configuration of YCM1008A was disclosed by the total synthesis.

Tetrahedron Letters **2007**, *48*, 4187–4190.

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