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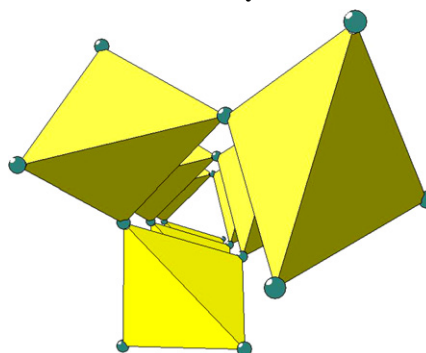
COMMUNICATIONS

The temperature-dependent optical activity of quartz: from Le Châtelier to chirality measures

pp 2723–2725

Dina Yogev-Einot and David Avnir*

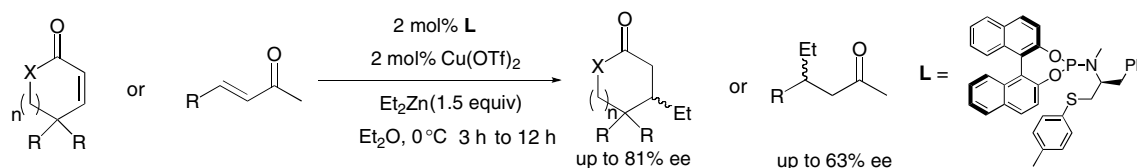
Le Châtelier's century-old observations of the effect of temperature changes on the optical rotation of quartz, are revisited with modern quantitative evaluation of the degree of chirality of the building blocks of this chiral material. A remarkable agreement between old and new is obtained, and interpreted.



Design and synthesis of new bidentate phosphoramidite ligands for enantioselective copper-catalyzed conjugate addition of diethylzinc to enones

pp 2726–2729

Fabien Boeda, Diane Rix, Hervé Clavier, Christophe Crévisy* and Marc Mauduit*

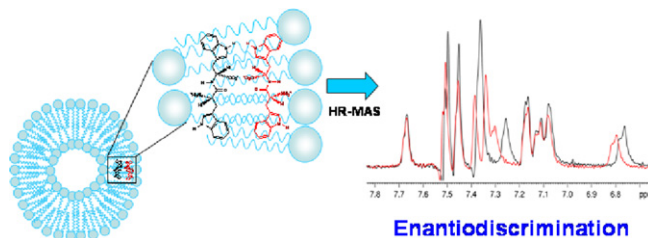


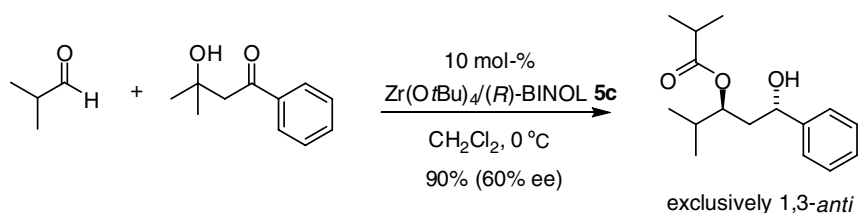
ARTICLES

Chiral recognition of dipeptides in phosphatidylcholine aggregates

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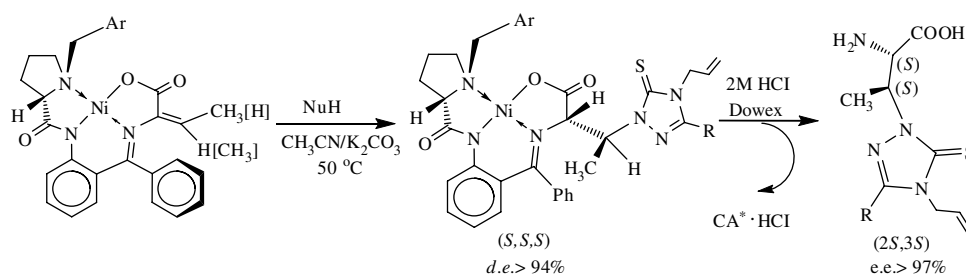
Oscar Cruciani, Stefano Borocci, Raffaele Lamanna, Giovanna Mancini* and Anna Laura Segre





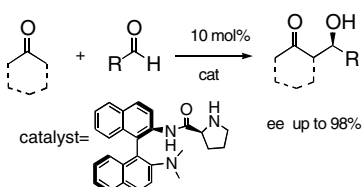
Asymmetric synthesis of *anti*-diastereoisomers of β -heterocycle substituted (*S*)- α -aminobutyric acids

Ashot S. Saghiyan,* Luisa L. Manasyan, Arpine V. Geolchanyan, Anahit M. Hovhannisyanyan,
Tariel V. Ghochikyan, Vilik S. Haroutunyan, Aida A. Avetisyan, Koryun S. Mirzoyan,
Victor I. Maleev and Victor N. Khrustalev



A multifunctional proline-based organic catalyst for enantioselective aldol reactions

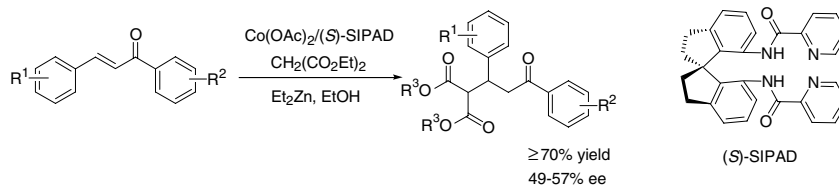
Stefania Guizzetti, Maurizio Benaglia,* Luca Pignataro and Alessandra Puglisi



Multifunctional binaphthyl diamine-based organocatalysts were shown to be able to promote the direct aldol condensation between acetone, methoxyacetone or cyclohexanone and different aldehydes in very good yields and high enantioselectivities.

Preparation and application of chiral spiro nitrogen-containing ligands for cobalt-catalyzed asymmetric Michael addition

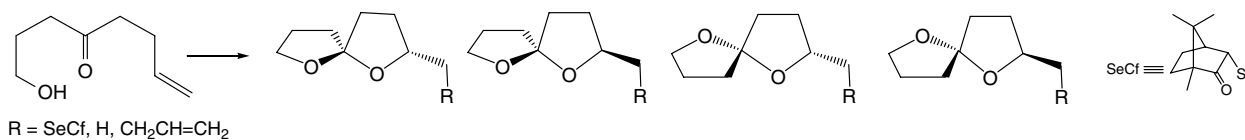
Chao Chen, Shou-Fei Zhu, Xin-Yan Wu* and Qi-Lin Zhou*



Organoselenium mediated asymmetric cyclizations. Synthesis of enantiomerically pure 1,6-dioxaspiro[4.4]nonanes

pp 2768–2774

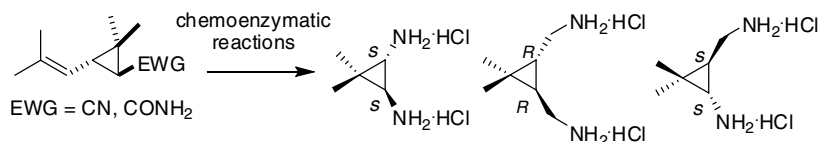
Marcello Tiecco,* Lorenzo Testaferri, Luana Bagnoli, Catalina Scarponi, Andrea Temperini, Francesca Marini and Claudio Santi



Chemoenzymatic synthesis of enantiopure geminally dimethylated cyclopropane-based C₂- and pseudo-C₂-symmetric diamines

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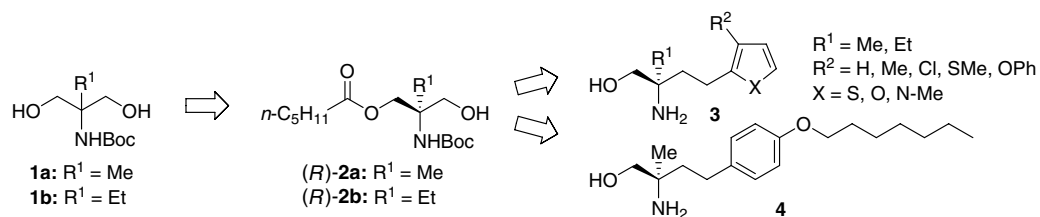
Guo-Qiang Feng, De-Xian Wang, Qi-Yu Zheng and Mei-Xiang Wang*



Asymmetric synthesis of α,α -disubstituted α -amino alcohol derivatives

pp 2781–2792

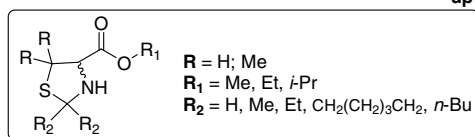
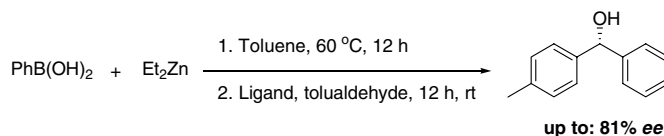
Tsuyoshi Nakamura, Takashi Tsuji, Yukiko Iio, Shojiro Miyazaki, Toshiyasu Takemoto and Takahide Nishi*



Modular chiral thiazolidine catalysts in asymmetric aryl transfer reactions

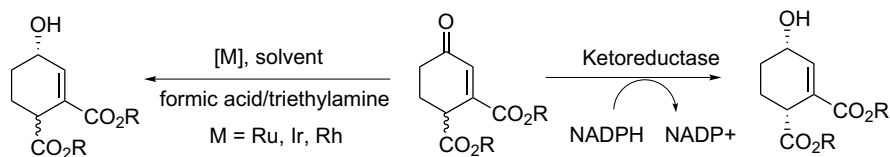
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Antonio Luiz Braga,* Priscila Milani, Fabrício Vargas, Márcio W. Paixão and Jasquer A. Sehnem



Biocatalytic and chemocatalytic approaches to the highly stereoselective 1,2-reduction of an α,β -unsaturated ketone pp 2798–2803

Birgit Kosjek,* David M. Tellers,* Mirlinda Biba, Roger Farr and Jeffrey C. Moore

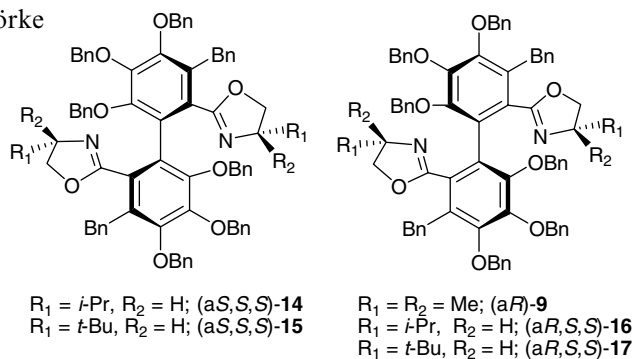


Transition metal-based transfer hydrogenation provides the allylic alcohol in high enantiomeric purity but low diastereomeric excess. In contrast, an enzymatic dynamic kinetic reduction proceeds with high diastereoselectivity and enantioselectivity.

Synthesis of novel chiral 6,6'-bis(oxazoly)-1,1'-biphenyls and their application as ligands in copper(I)-catalyzed asymmetric cyclopropanation pp 2804–2812

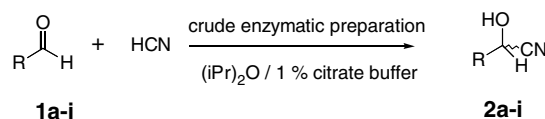
Karamali Khanbabaee,* Sinan Basceken and Ulrich Flörke

Synthesis of novel chiral ligands and their application in the copper(I)-catalyzed asymmetric cyclopropanation of styrene with ethyl diazoacetate.



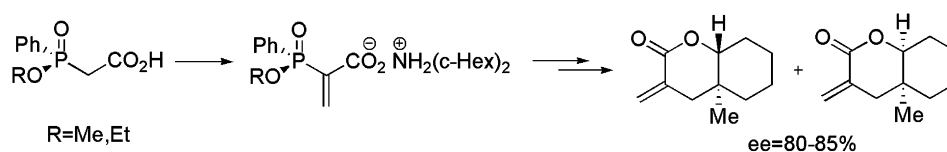
Application of crude preparations of leaves from food plants for the formation of cyanohydrins with high enantiomeric excesses pp 2813–2816

Liliana Hernández, Héctor Luna,* Aída Solís and Alfredo Vázquez



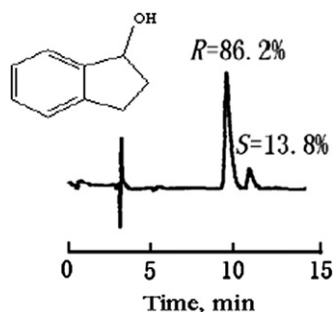
Enantiomerically pure P-chiral dicyclohexylammonium 2-(phosphinyl)acrylates as new Michael acceptors. Enantioselective synthesis of α -methylene- δ -valerolactones pp 2817–2820

Henryk Krawczyk,* Marcin Śliwiński and Jacek Kędzia

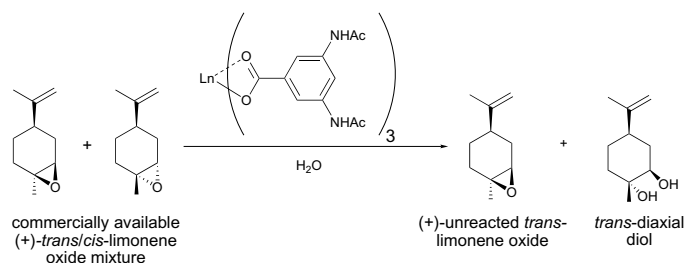


Ke Huang, Zachary S. Breitbach and Daniel W. Armstrong*

Eighty-four commercially available chiral synthons, auxiliaries, and catalysts were evaluated to determine their actual enantiomeric composition.



Philip C. Andrews,* Michael Blair, Benjamin H. Fraser, Peter C. Junk, Massimiliano Massi and Kellie L. Tuck



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