

Contents

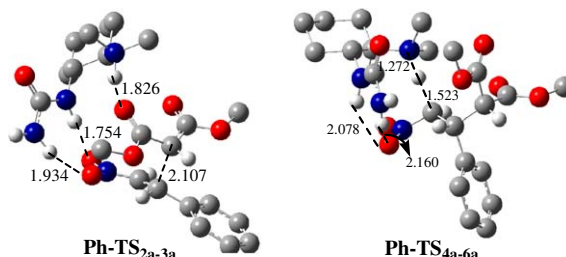
COMMUNICATIONS

Theoretical study of the bifunctional-urea catalyzed Michael reaction of 1,3-dicarbonyl compounds and nitroolefins: reaction mechanism and enantioselectivity

pp 1611–1616

Rongxiu Zhu, Dongju Zhang, Jian Wu and Chengbu Liu*

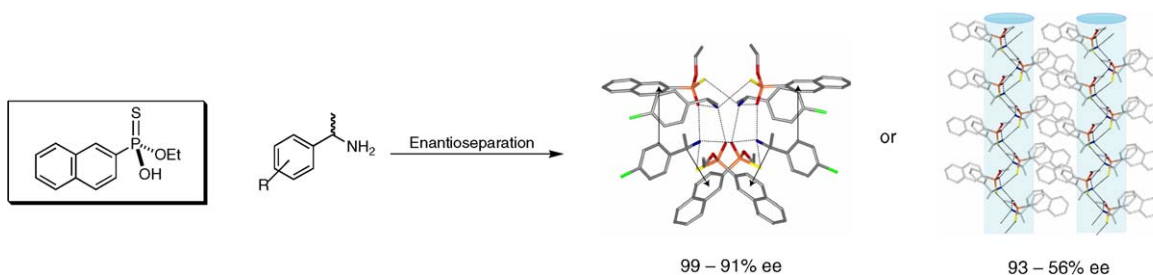
The rate determining step of the Michael reaction of nitroalkenes catalyzed by bifunctional-urea is found to be proton transfer from the amino group of the catalyst to the α -carbon of the nitronate, and the enantioselectivity is controlled by the steps involved in carbon–carbon bond formation.



Synthesis and chiral recognition ability of *O*-ethyl (2-naphthyl)phosphonothioic acid

pp 1617–1621

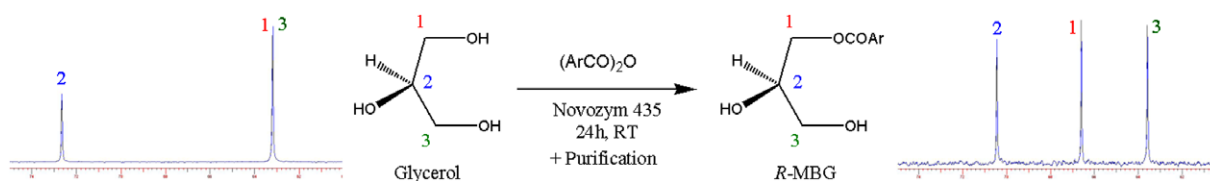
Yuka Kobayashi, Jin Maeda and Kazuhiko Saigo*



Strategy for specific isotope ratio determination by quantitative NMR on symmetrical molecules: application to glycerol

pp 1622–1624

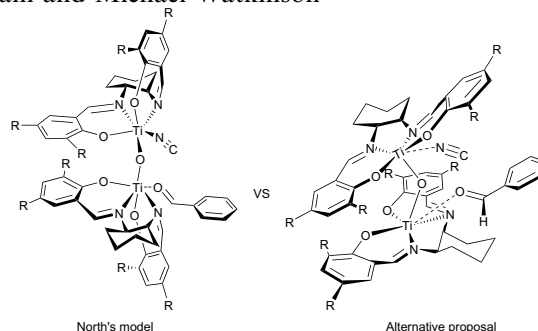
Elsa Caytan, Younes Cherghaoui, Célia Barril, Catherine Joutteau, Claude Rabiller and Gérald S. Remaud*



An alternative model for the asymmetric addition of cyanide to aldehydes catalysed by titanium–salen complexes based on a structurally related iron–salen complex

pp 1625–1628

Gennadiy Ilyashenko, Majid Motevalli and Michael Watkinson*

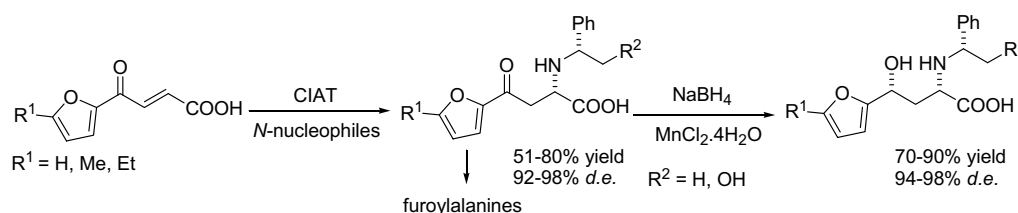


ARTICLES

Crystallisation induced asymmetric transformation (CIAT) in the synthesis of furoylalanines and furylcarbinols

pp 1629–1637

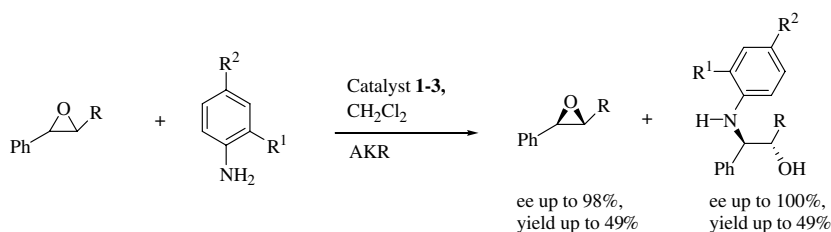
Pavol Jakubec,* Dušan Berkeš, Richard Šiška, Mária Gardianová and František Považanec



Enantioselective aminolytic kinetic resolution (AKR) of epoxides catalyzed by recyclable polymeric Cr(III) salen complexes

pp 1638–1643

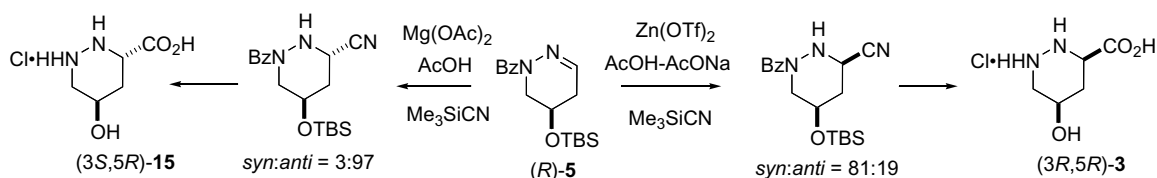
Rukhsana I. Kureshy,* Surendra Singh, Noor-ul H. Khan, Sayed H. R. Abdi, Santosh Agrawal and Raksh V. Jasra



The efficient synthesis of (3*R*,5*R*)-5-hydroxypiperazine acid and its diastereomer using Lewis acid-promoted diastereoselective Strecker synthesis

pp 1644–1649

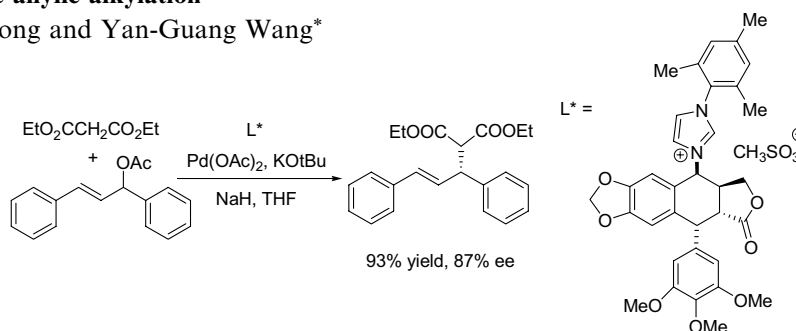
Kazuishi Makino, Hang Jiang, Tatsuya Suzuki and Yasumasa Hamada*



Synthesis of new chiral *N*-heterocyclic carbenes from naturally occurring podophyllotoxin and their application to asymmetric allylic alkylation

pp 1650–1654

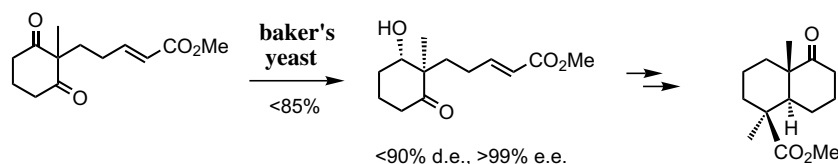
Shi-Jun Li, Jian-Hua Zhong and Yan-Guang Wang*



An efficient route for the synthesis of methyl (–)-1,4a-dimethyl-5-oxodecahydronaphthalene-1-carboxylate by using baker's yeast-catalyzed asymmetric reduction

pp 1655–1662

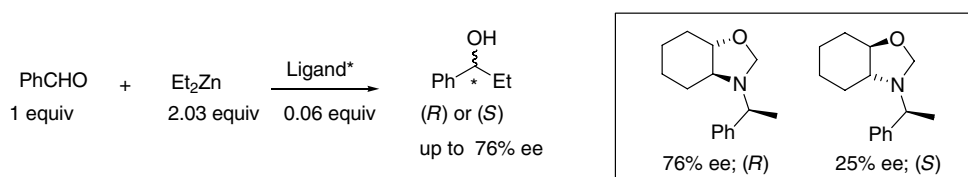
Takahiro Katoh, Shinsuke Mizumoto, Masato Fudesaka, Masatoshi Takeo, Tetsuya Kajimoto and Manabu Node*



Synthesis of chiral ligands containing the *N*-(*S*)- α -phenylethyl group and their evaluation as activators in the enantioselective addition of Et_2Zn to benzaldehyde

pp 1663–1670

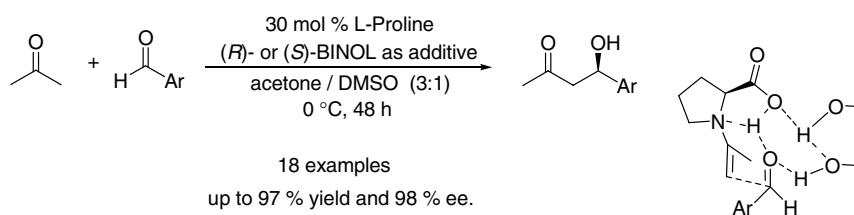
Virginia M. Mastranzo, Ericka Santacruz, Gabriela Huelgas, Evelyn Paz, Martha V. Sosa-Rivadeneira, Sylvain Bernès, Eusebio Juaristi,* Leticia Quintero* and Cecilia Anaya de Parrodi*



(*R*)- or (*S*)-Bi-2-naphthol assisted, *L*-proline catalyzed direct aldol reaction

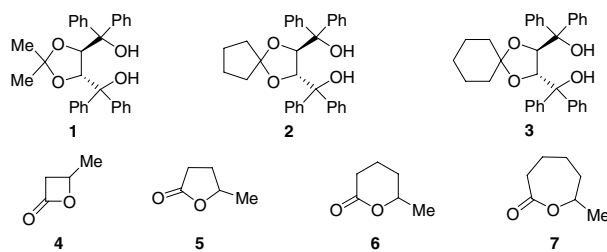
pp 1671–1677

Yan Zhou and Zixing Shan*



Optical resolution of medium-size lactones by inclusion crystallization with optically active host compounds: pp 1678–1683
remarkable odd–even effects on the chiral recognition

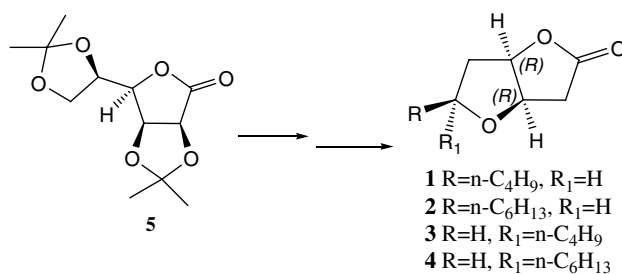
Koichi Tanaka,* Daisuke Kuchiki and Mino R. Caira*



Chiron approach for the synthesis of (5*RS*)-Hagen's gland lactones from diacetone-D-mannose pp 1684–1687

pp 1684–1687

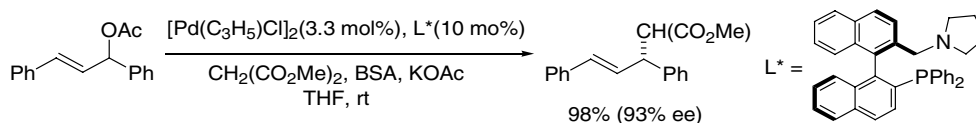
Geetha Banda and I. E. Chakravarthy*



Synthesis of homologated binaphthyl N,P-ligands for Pd-catalyzed asymmetric allylic alkylation pp 1688–1692

pp 1688–1692

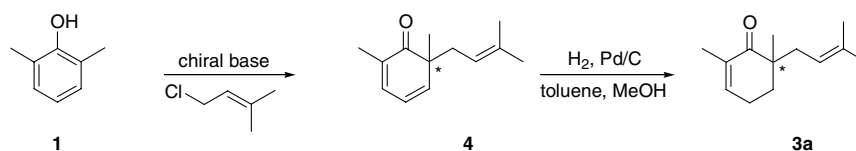
Kyoung Hoon Kim, Chan-Kyu Jeong, Do-Hoon Kim and Deok-Chan Ha*



Stereoselective synthesis of cyclohexa-2,4-dien-1-ones and cyclohex-2-en-1-ones from phenols pp 1693–1699

pp 1693–1699

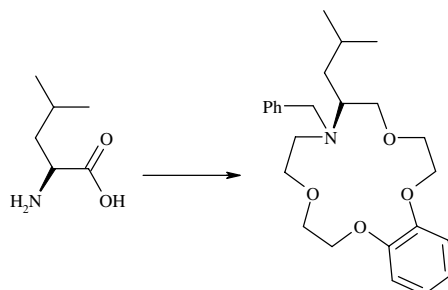
Martin A. Lovchik, Andreas Goeke and Georg Fráter*



Chiral separation of amino acids using a chiral crown ether by impregnation on a polymeric support and monoamine modified silica gel

pp 1700–1704

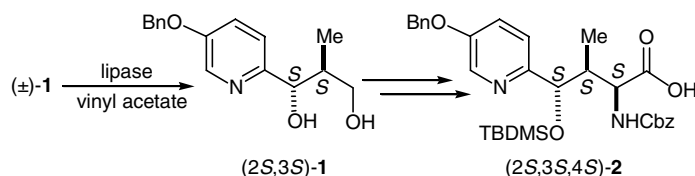
Serap Seyhan, Yılmaz Turgut,* Melek Merdivan and Halil Hoşgören



First chiral synthesis of the N-terminal amino acid congener of nikkomycin Z based on lipase-catalyzed enantioselective acetylation of a primary alcohol possessing two stereogenic centers

pp 1705–1714

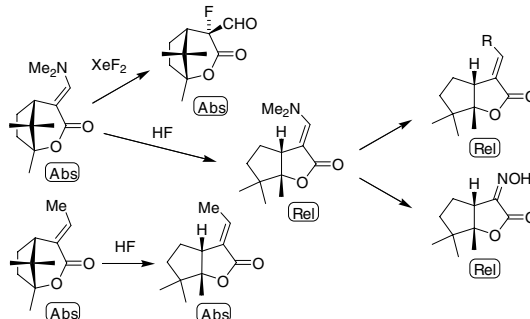
Hiroyuki Akita,* Yoshiki Takano, Katsushi Nedu and Keisuke Kato



Synthesis and transformations of new dihydro-β-campholenolactone derivatives

pp 1715–1727

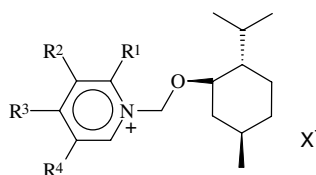
Uroš Grošelj, Gašper Tavčar, David Bevk, Anton Meden, Boris Žemva, Branko Stanovnik and Jurij Svete*



Chiral pyridinium-based ionic liquids containing the (1R,2S,5R)-(-)-menthyl group

pp 1728–1737

Juliusz Pernak* and Joanna Feder-Kubis



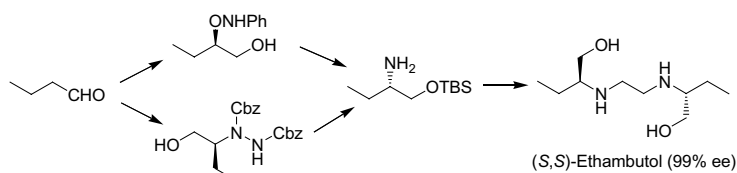
X = Cl, BF₄, ClO₄, I, PF₆, NTf₂
1-[(1R,2S,5R)-(-)-Menthoxymethyl]pyridinium salts

A novel class of chiral pyridinium salts in which the chirality resided in the cation have been prepared and characterized. The physicochemical and anti-microbial properties have been determined. The group of prepared salts contained chiral ionic liquids and decomposable chiral pyridinium chlorides.

Enantioselective synthesis of (*S,S*)-ethambutol using proline-catalyzed asymmetric α -aminooxylation and α -amination

pp 1738–1742

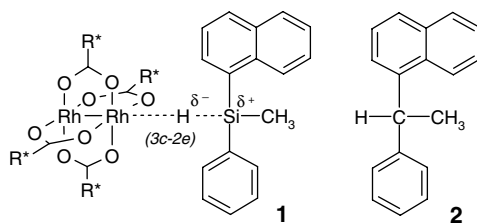
Shriram P. Kotkar and Arumugam Sudalai*



Enantiodifferentiation of a silane and the analogous hydrocarbon by the dirhodium method—silane ··· dirhodium complex interaction

pp 1743–1748

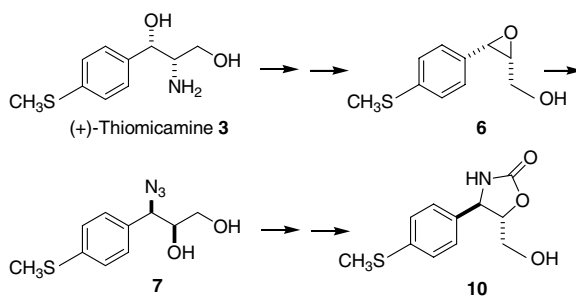
Edison Díaz Gómez, Dieter Albert, Jens Mattiza, Helmut Duddeck,* Julian Chojnowski and Marek Cypryk



Transformation of (+)-thiomicamine into the *p*-methylthio analogue of (+)-5-*epi*-cytoxazone

pp 1749–1753

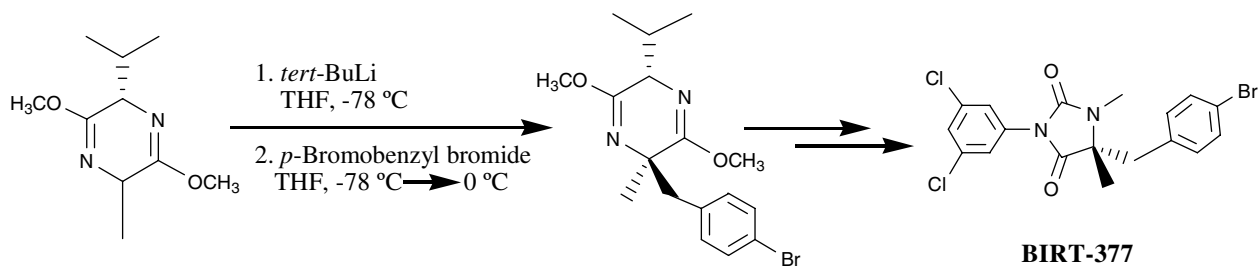
Maria D. Rozwadowska



Improved Schöllkopf construction of quaternary α -amino acids: efficient enantioselective synthesis of integrin LFA-1 antagonist BIRT-377

pp 1754–1757

Stamatia Vassiliou and Plato A. Magriotis*



OTHER CONTENTS

Stereochemistry abstracts
Instructions to contributors
Cumulative author index

pp A343–A375
pp I–IV
pp V–IX

*Corresponding author



Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com for more information.

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



ISSN 0957-4166