

T39/02

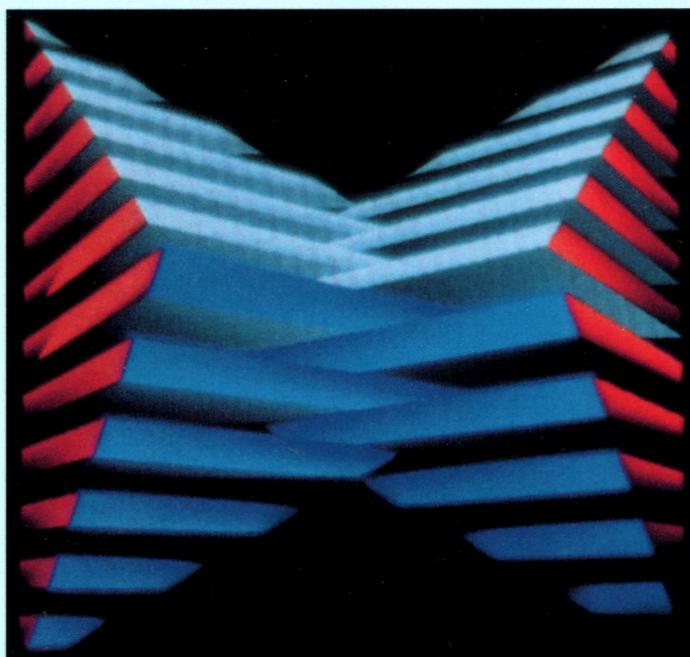


ELSEVIER

Vol. 25 · No. 9 · 15 May 2014 · ISSN 0957-4166

# Tetrahedron: *Asymmetry*

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL ASPECTS  
OF ASYMMETRY IN ORGANIC, INORGANIC, ORGANOMETALLIC,  
PHYSICAL AND BIOORGANIC CHEMISTRY



Editor-in-Chief:  
STEPHEN G. DAVIES  
*University of Oxford, UK*

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

**ScienceDirect**

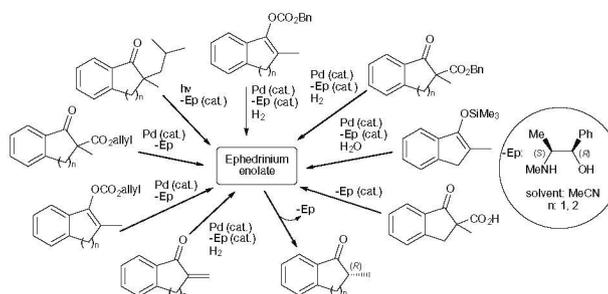
Tetrahedron: *Asymmetry* Vol. 25, No. 9, 2014

Contents

REPORT

Amino alcohol-mediated enantioselective syntheses of  $\alpha$ -substituted indanones and tetralones, ammonium enolates as key intermediates pp 697–704

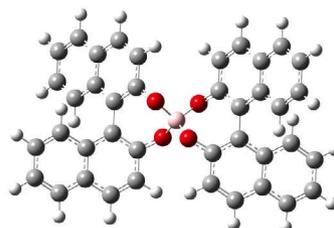
Jacques Muzart\*



COMMUNICATION

A three-component protocol for the enantiodifferentiation of amines using triphenyl borate and BINOL: is it an ion pair or an amine-coordinated complex? pp 705–708

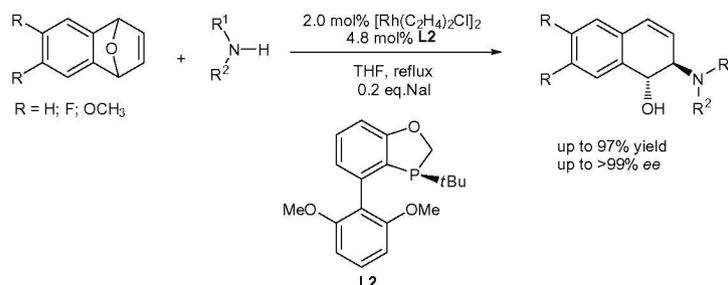
Karel D. Klika\*, Sandeep Kumar Mishra, Sachin R. Chaudhari, N. Suryaprakash\*



ARTICLES

Tunable chiral monophosphines as ligands in enantioselective rhodium-catalyzed ring-opening of oxabenzonorborenes with amines pp 709–717

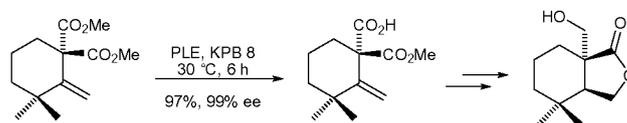
Renshi Luo\*, Ling Xie, Jianhua Liao, Hu Xin, Albert S.C. Chan



**Preparation of chiral building blocks for the enantioselective total synthesis of *ent*-kauranoids by the pig liver esterase-catalyzed asymmetric hydrolysis of a dialkyl malonate-type prochiral diester**

pp 718–724

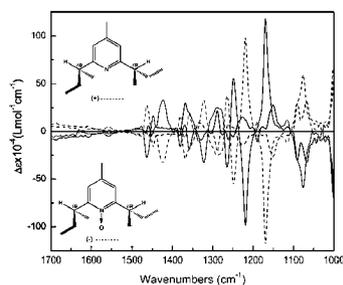
Yuji Namiki, Tomohiro Fujii, Masahisa Nakada\*



**Vibrational circular dichroism of 2,6-di-*sec*-butyl-4-methylpyridine and 2,6-di-*sec*-butyl-4-methylpyridine-*N*-oxide: theoretical evidence on the existence of multiple -CH, -CH<sub>2</sub>, and -CH<sub>3</sub>···O intramolecular hydrogen bonds on the nitroxide oxygen**

pp 725–735

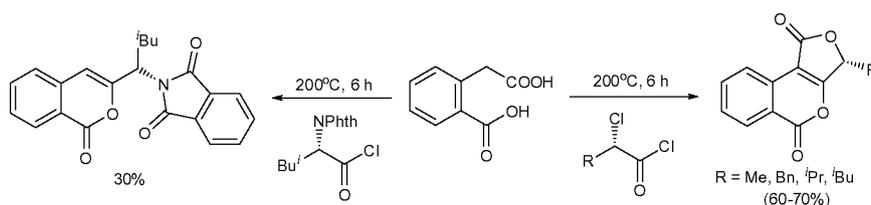
Florina Teodorescu, Jean-Valère Naubron, Cornelia Uncuța†, Petru Ivan Filip, Emeric Bartha, Ana Maria Toader, Isabela Costinela Man\*



**Chiron based synthesis of isocoumarins: reactivity of  $\alpha$ -substituted carboxylic acids**

pp 736–743

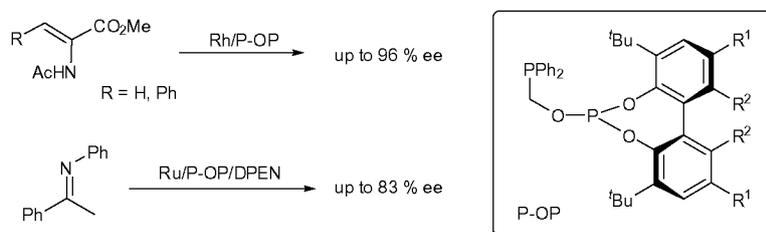
Aisha Saddiqa, Abdul R. Raza\*, David StC. Black, Naresh Kumar



**Asymmetric hydrogenation reactions with Rh and Ru complexes bearing phosphine-phosphites with an oxymethylene backbone**

pp 744–749

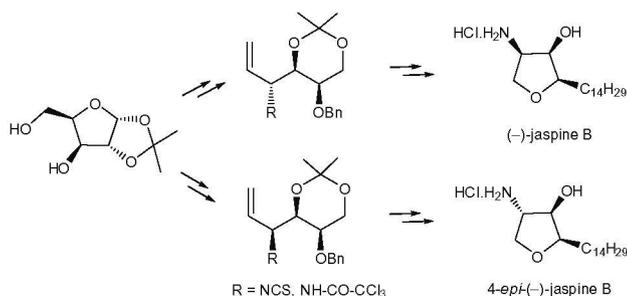
Patryk Kleman, Mónica Vaquero, Inmaculada Arribas, Andrés Suárez, Eleuterio Álvarez, Antonio Pizzano\*



## Total synthesis of (-)-jaspine B and its 4-*epi*-analogue from D-xylose

pp 750–766

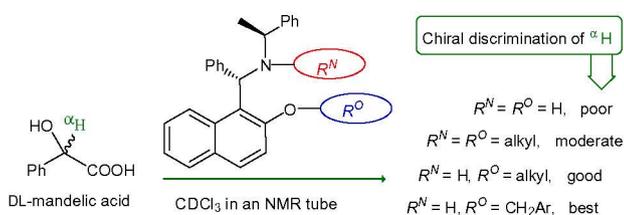
Miroslava Martinková\*, Eva Mezeiová, Jozef Gonda, Dominika Jacková, Kvetoslava Pomikalová



## Application of optically active aminonaphthols as NMR solvating agents for chiral discrimination of mandelic acid

pp 767–774

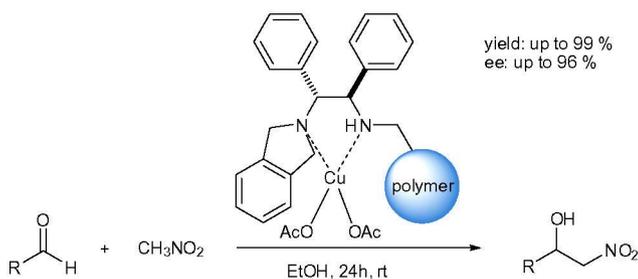
Anju R. Chaudhary, Priyanka Yadav, Ashutosh V. Bedekar\*



## Polystyrene copolymer supported by substituted (1*R*,2*R*)-1,2-diphenylethane-1,2-diamine-copper(II) complexes: a recyclable catalyst for asymmetric Henry reactions

pp 775–780

Ladislav Androvič, Pavel Drabina\*, Illia Panov, Božena Frumarová, Andréa Kalendová, Miloš Sedlák



## OTHER CONTENTS

Stereochemistry abstracts

pp A195–A220

Cumulative author index

pp I–II

Tetrahedron: Asymmetry Reports

pp V–VIII

\*Corresponding author