

CONTENTS

Original synthesis of molecules containing adjacent quaternary carbons	3
Cembrane diterpene synthesis using titanium-induced carbonyl coupling reactions	15
Terpene synthesis	33
Synthesis relative and absolute configuration of some natural bisabolones	39
Phosphopolyprenols and their glycosyl esters: chemical synthesis and biochemical application	63
New aspects in synthesis of gibberellins	115
Cyclopentanoid natural products via asymmetric Diels-Alder reactions	139
Total synthesis of natural products by using anodic oxidation of phenols as a Key step	159
Natural products synthesis by using macrocyclically controlled reactions	175
Heteroatom mediated synthesis of large ring compounds	205
Occurrence and synthesis of macrocyclic semiochemicals	219
Application of the chemistry of vicinal tricarbonyl compounds in the synthesis of products of biological interest	261
Cycloisomerization of enynes as a valuable tool for the synthesis of natural products	277
Synthetic studies in the alkaloid field	283
The methylmuconate pathways, stereochemistry and mechanism of enzymic reactions	295
Thio-oligosaccharides: their synthesis and reactions with enzymes	315
A metal-free thermal glycosylation and synthetic study of cyclo-L-rhamnohexaose, the first L-cyclooligosaccharide	359
Synthesis and chemistry of carcinogenic adducts of DNA	373
Novel conformationally restricted analogs of norepinephrine: synthesis and structure activity	395
Sequential Michael additions in the synthesis of natural products	409
Strategies for the total syntheses of thymosins	433
Asymmetric synthesis via chiral organoboranes-an unexpected bonus from a half - century of borane research	463
Subject Index	479