

Preface

Vinylidenecyclopropanes (VDCPs), which have strained cyclopropyl group connected with an allene moiety and yet are thermally stable and reactive substances in organic chemistry, are versatile intermediates in organic synthesis. During the past decades, VDCPs have demonstrated special reactivities, which can be tuned by the electronic or steric effects and nature of the substituents on the skeleton. Traditionally, great attention and a lot of effects have been focused on the photo- and thermal-induced chemistry of VDCPs. Recently, we have thoroughly investigated the Lewis acid or Brønsted acid, as well as transition metal, catalyzed/mediated chemistry of VDCPs and have found some new reactions of VDCPs, showing their significant usefulness in organic synthesis. In this volume, we will describe our investigations on the chemistry of VDCPs, including their preparation, their reactivities upon treating with Lewis or Brønsted acid, as well as transition metal catalysts and miscellaneous reactions.

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