

Abstract

This bachelor thesis deals with the stereoselective preparation of chiral piperidine derivatives by using an organocatalytic approach.

It is aimed at optimizing the reaction conditions and extent of the organocatalytic tandem Michael/cyclization reaction of 2-nitrocarboxamides with α,β -unsaturated aldehydes.

Key words

organocatalysis, iminium activation, enantiomer, diastereoisomer, piperidine, Michael addition, stereoselective synthesis, DPP-4