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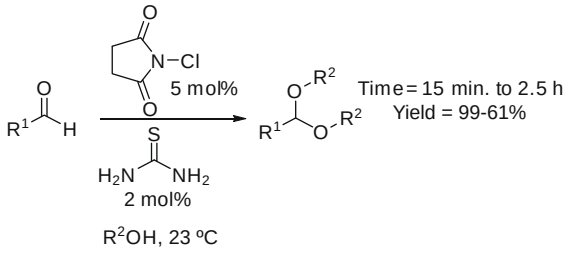
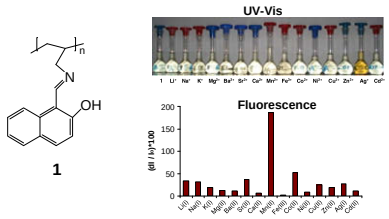
Tetrahedron Letters Vol. 50, No. 29, 2009

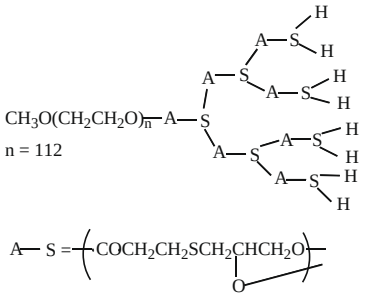
Contents

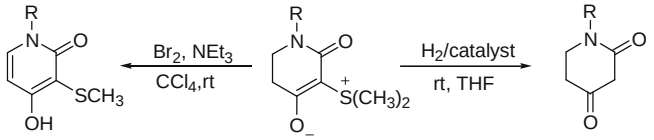
COMMUNICATIONS

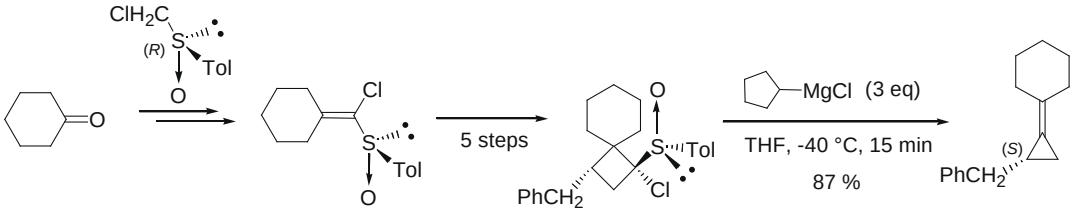


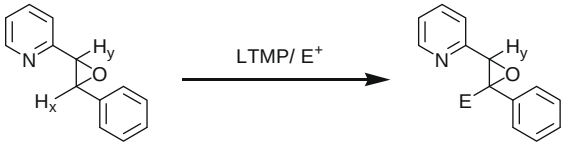


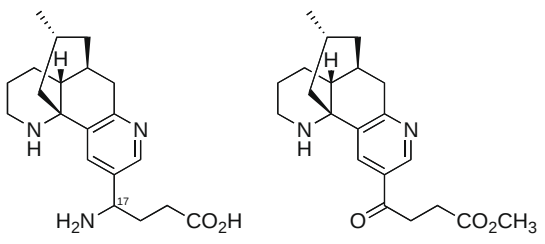
Polymeric sensor **1** shows selectivity for silver and manganese ions from changes in the UV–vis and fluorescence spectra, respectively, in semi-aqueous solution at pH 7.0.





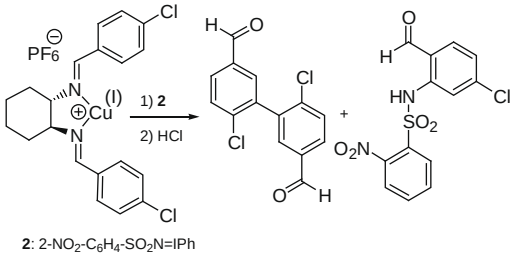




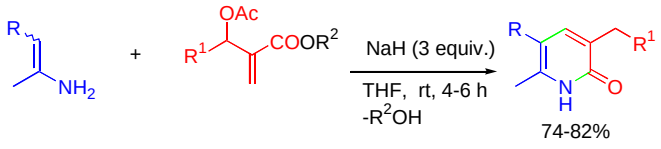


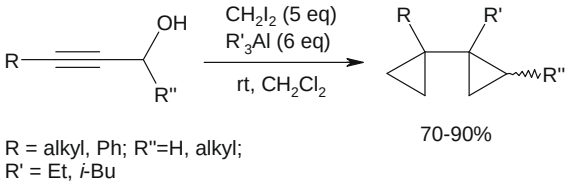
Lycopladine F (**1**)
(17*S* / 17*R*, 3.5 : 1)

Lycopladine G (**2**)

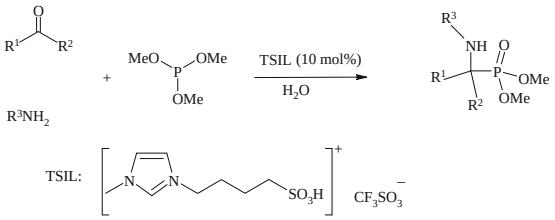


Copper Schiff base complexes were shown to possess a proclivity for aromatic oxidative coupling reactions.

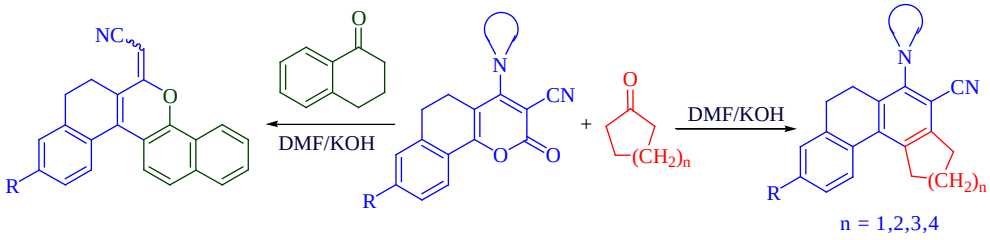


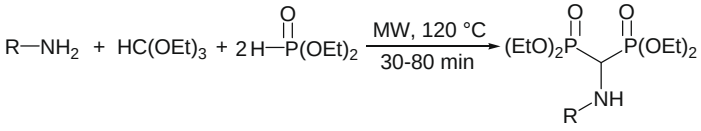


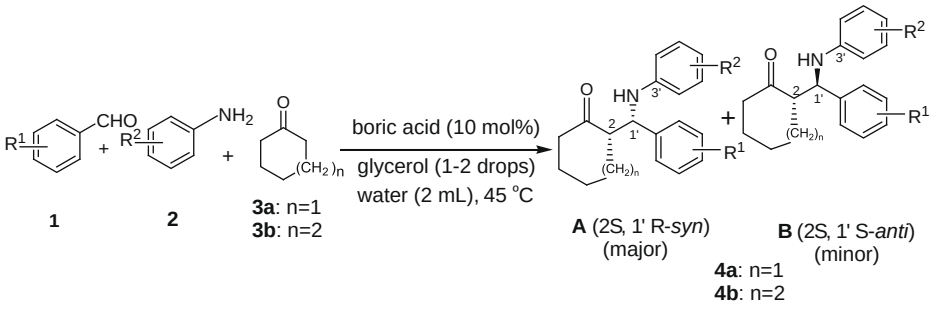
A method for the conversion of 2-alkyn-1-ols into 1,1′-disubstituted bis-cyclopropanes is described.

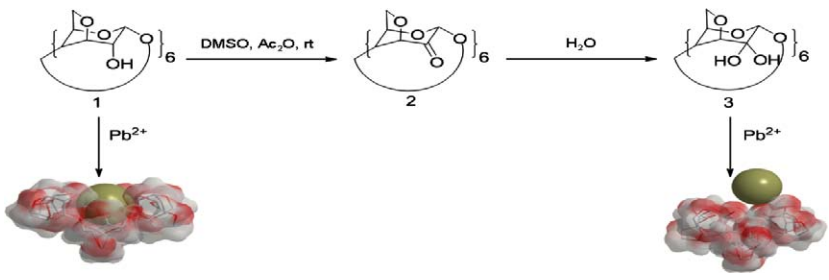


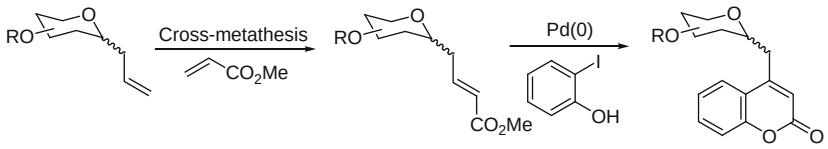
A sulfonic acid functionalized ionic liquid is used as a Brønsted acid catalyst for the one-pot, three-component synthesis of α-aminophosphonates from aldehydes and ketones at room temperature in water. This homogeneous catalytic procedure is simple and efficient and the catalyst can be reused at least six times without any noticeable decrease in catalytic activity.

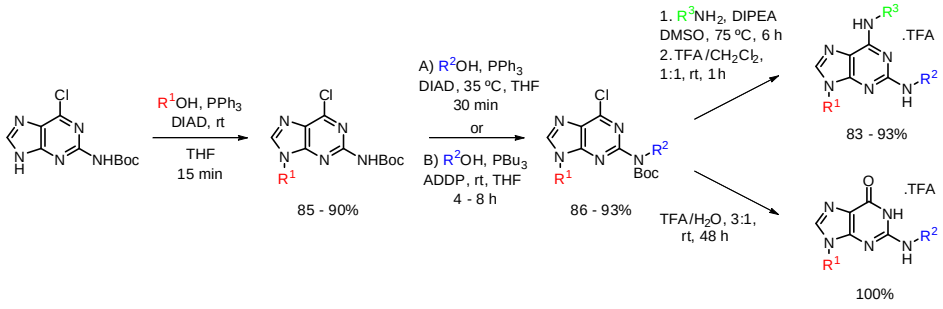


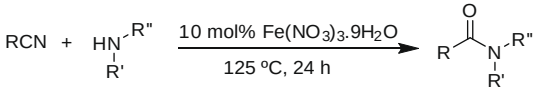




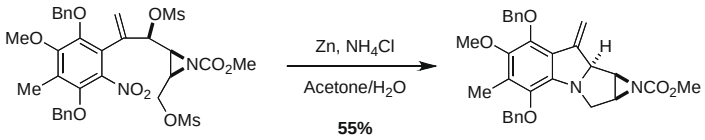




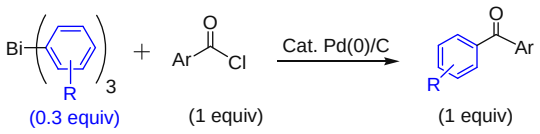


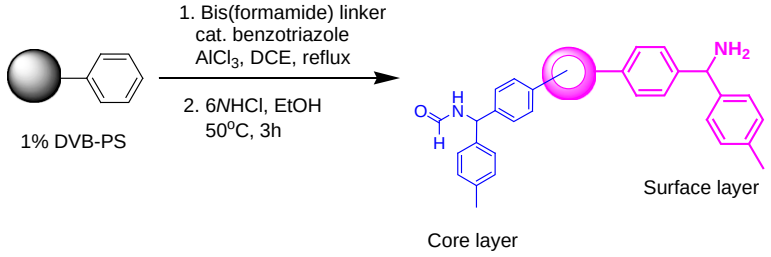


The cheap, commercially available iron complex, $Fe(NO_3)_3{\cdot}9H_2O$, has been used to catalyse the formation of amides by the addition of amines to nitriles.

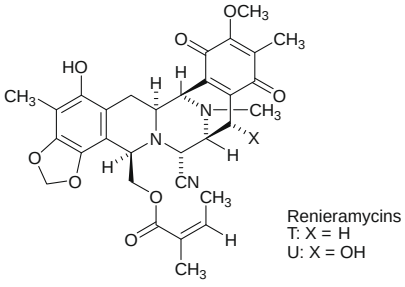


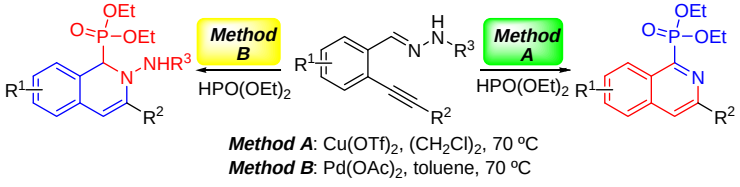
The tetracyclic skeleton of the mitomycins has been constructed in one step from an acyclic precursor via a reductive amino-cyclization reaction. Details and the utilityof this reaction are discussed herein.

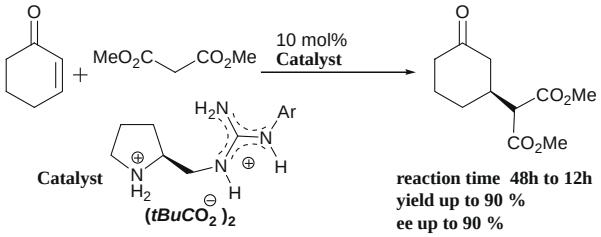




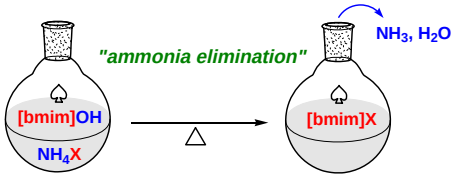
We prepared the core–shell-type MBHA resin by benzotriazole-catalyzed amidoalkylation and partial hydrolysis. The core–shell structure was confirmed by the two-photon microscopy.

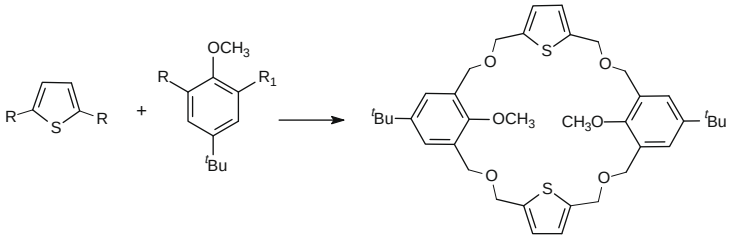


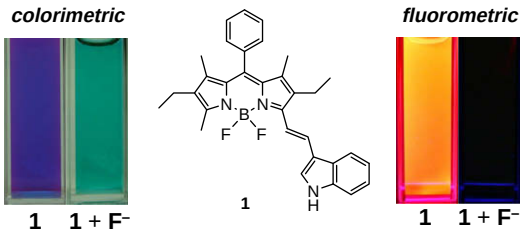




Novel guanidinyl pyrrolidine salts are useful bifunctional organocatalysts for the asymmetric addition of malonates to enones. These organocatalysts are effective under a wide range of reaction conditions and afford products in high yield and enantioselectivity.







OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

An asymmetric synthesis of optically active alkylidenecyclopropanes is achieved from ketones with (*R*)-chloromethyl *p*-tolyl sulfoxide and *tert*-butyl carboxylates. 1,2-CC insertion reaction of cyclobutylmagnesium carbenoid intermediate, generated from α-chlorocyclobutyl *p*-tolyl sulfoxide with cyclopentylmagnesium chloride, is the key of this procedure.
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