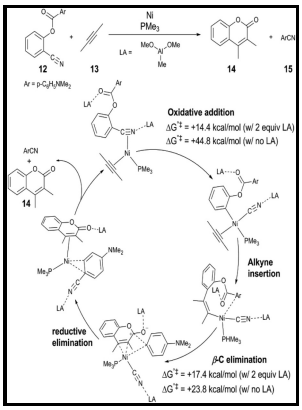
Studies on Lewis acid catalysed / mediated syntheses.

University of East Anglia - Solid acid catalyzed carboxymethylation of bio



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Lewis Acid

. Allowing unequaled chemo-reactivity and stereocontrol in catalytic asymmetric conjugate addition to enamides, the method is distinguished by its unprecedented reaction scope, allowing even the most challenging and synthetically important methylations to be accomplished with good yields and excellent enantioselectivities. A loss of stereoselectivity was observed with less than stoichiometric amounts of Lewis acid.

Lewis Acid

The remarkable catalytic activity of MP-SO 3H is comparable to that of reported homogeneous acid catalysts.

Mechanistic study of the cooperative palladium/Lewis acid

In recent years, important advancements towards fully chemoselective methods have been realized. With the optimized set of conditions in hand, we investigated the generality of this methodology , testing both BF 3·Et 2O and TMSOTf as LA. The diastereoselectivity of the reaction of N-enoyloxazolidinones 1a and 1b with diphenylsulfonium isopropylide could be mediated by the addition of some Lewis acids.

Development of the Lewis Acid Catalyzed Allenoate

Catalytic Enantioselective Formation of C-C Bonds by Addition to Imines and Hydrazones: A Ten-Year Update. The optimized conditions were successfully applied to quinolines, quinoxalines, and quinoline N-oxides.

Lewis Acid

Catalytic enantioselective addition of organometallics to unprotected carboxylic acids.

Mechanistic Study on the Lewis Acid Catalyzed Synthesis of 1,3

Scheme 1 Scheme a a Cu-catalyzed ACA has been investigated for over the last 70 years.

Lewis acid

Carrying out the reaction in the presence of BF 3·Et 2O or TMSOTf led to side reactions, and the CA product 2j was obtained with an ee of 79% due to the competing background reaction. Mechanistic studies revealed the fate of the Lewis acid in each elementary step of the copper-catalyzed conjugate addition of Grignard reagents to enamides, allowing us to identify the most likely catalytic cycle of the reaction.

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