ORAL DEFENCE ANNOUNCEMENT

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The application of visible light mediated photoredox catalysis in organic transformations

In the modern era of chemistry, photoredox catalysis has proved its usefulness in many synthetic applications. First of all, with the use of visible-light as the only activation source, several challenging organic transformations now could be successfully carried out at ambient conditions. Secondly, the remarkable redox regulatory capability of photoredox catalysts has facilitated a handful of difficult electron transfer processes, breaking conventional energy barrier by going through alternative pathways. The increasing number of reports on novel bond formation strategies has been ongoing through the last few decades. Therefore, the objective of my thesis is to develop new C-H functionalization methodologies and to probe new chemistry of traditional organic reagents under visible-light mediated photoredox conditions.

Date: 9 November 2018
Time: 10.00 AM
Venue: Conference Room, Research & Graduate Studies Office, Level 2, SPMS
Supervisor: Assoc Prof Liu Xuewei