

学科进展系列报告

New Adventures in Organic Chemistry: Synergistic Catalysis, photoorganocatalytic and

Heterogenous Chemistry



Associate Professor

Ramon Rios Torres

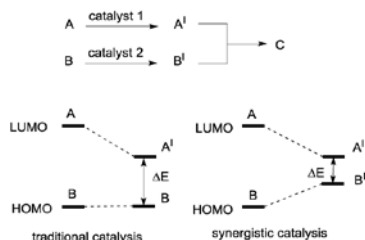
University of Southampton (UK)

EDUCATION :

2000 PhD in Organic Chemistry. *Universitat de Barcelona.*

1997 Master Degree in Chemistry. *Universitat de Barcelona.*

1996 Bachelor of Science in Chemistry. *Universitat de Barcelona.*

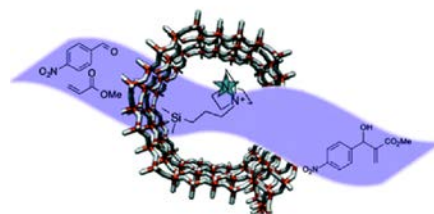


Abstract: Recently, the quest of New Asymmetric Methodologies have emerged as one of the cornerstones of organic chemistry. The synthesis of complex scaffolds with multiple stereogenic centers has become an enormous challenge for organic chemists. Moreover these new methodologies should follow the principles of Atom economy and Green Chemistry. In this lecture we will present the later outcomes of our research efforts in these areas:

First we developed new methodologies based in the concept of Synergistic

Catalysis (where two catalytic cycles are working in concert to generate a new C-C bond) to afford new *N*-heterocyclic scaffolds in highly stereoselective fashion.

On the other hand we developed some new green procedures starting from organophotocatalytic reactions to end with new heterogenisation of catalysts in several solid supports to generate waste free reactions that fulfils the requirements of green chemistry for this new millennium.



2015年5月20日（周三）上午 10:00

化学西楼 1 楼多功能厅

邀请人：郭浩 老师