Aïssa Research Group

UNIVERSITY OF LIVERPOOL

Research

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Group

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Positions

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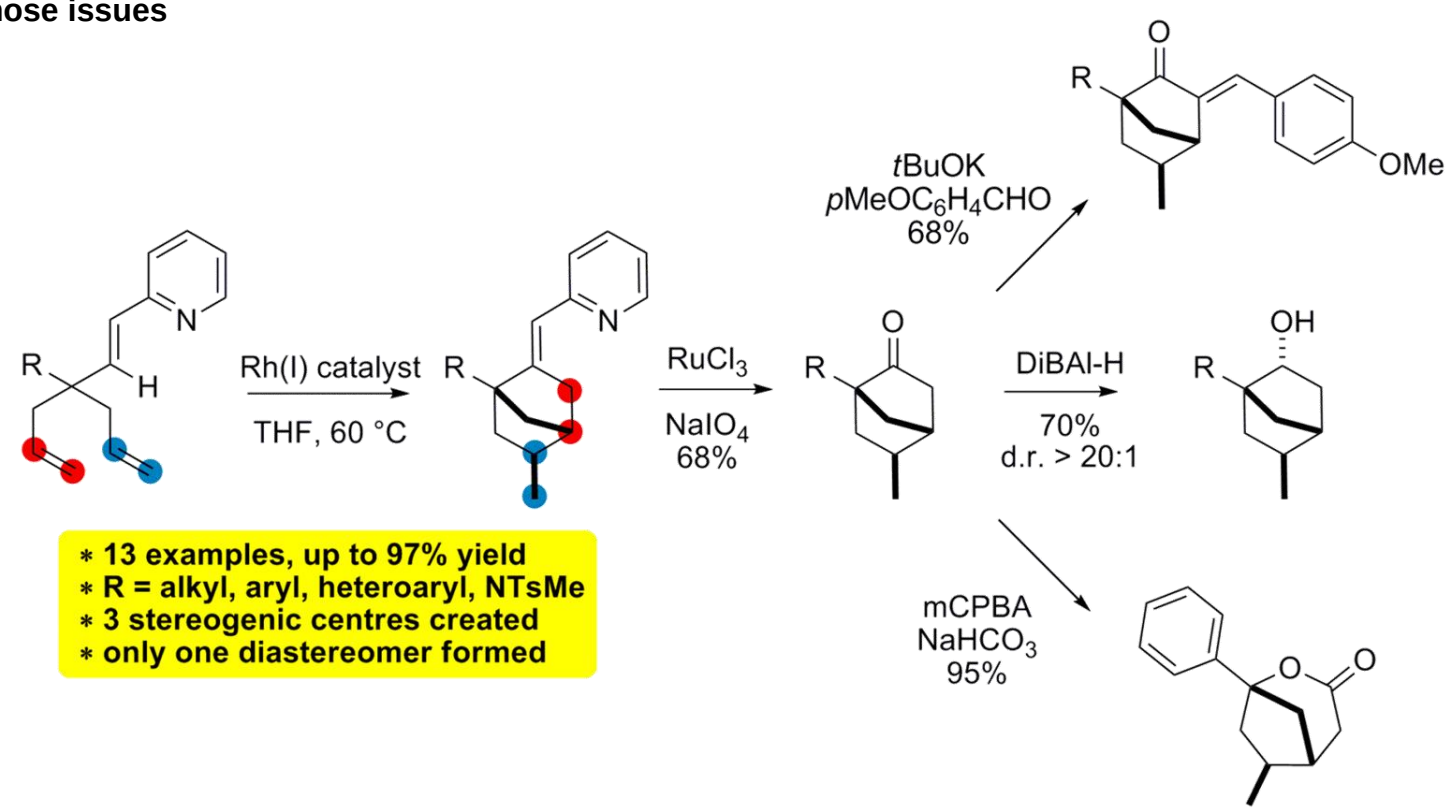
Current Research

The development of environmentally benign chemical reactions is a critical challenge facing society, which constantly demands new drugs and new materials to improve the quality of life without increasing the pressure on natural resources. Bond formation through transition-metal-catalysed activation of otherwise inert bonds constitutes a very promising strategy to develop **sustainable synthetic chemistry and address those issues**



- 13 examples, up to 97% yield
- R = alkyl, aryl, heteroaryl, NTsMe
- 3 stereogenic centres created
- only one diastereomer formed

Angew. Chem. Int. Ed. **2014**, DOI: 10.1002/201400080

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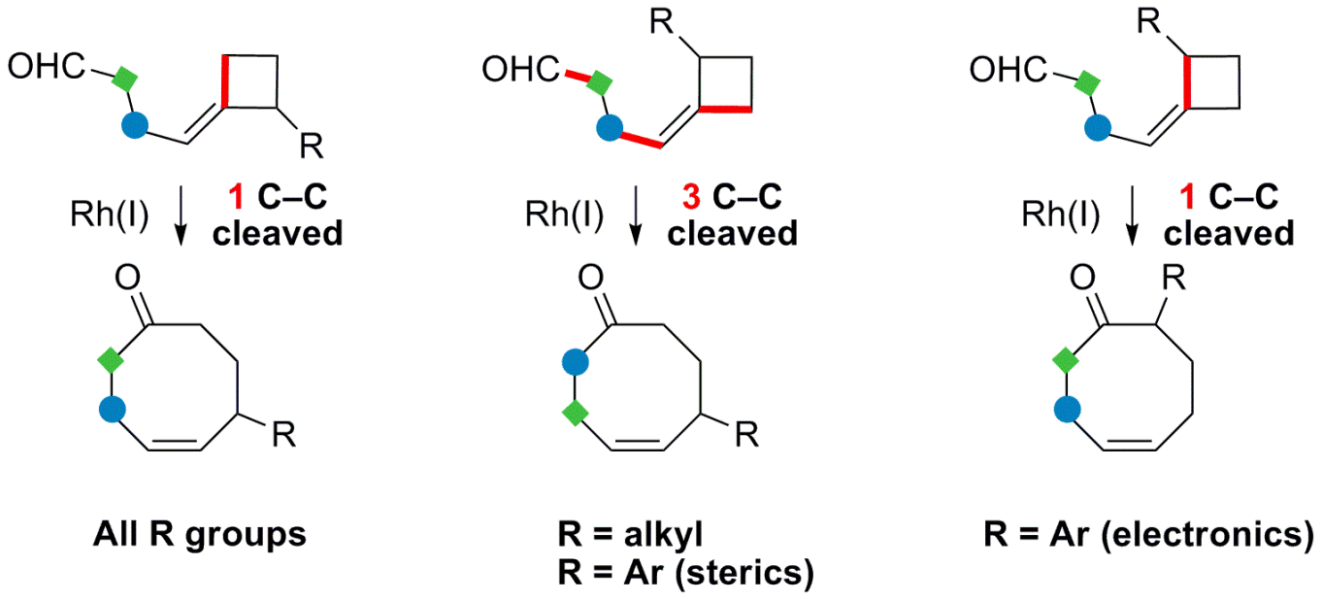

Org. Lett. **2013**, *15*, 1322

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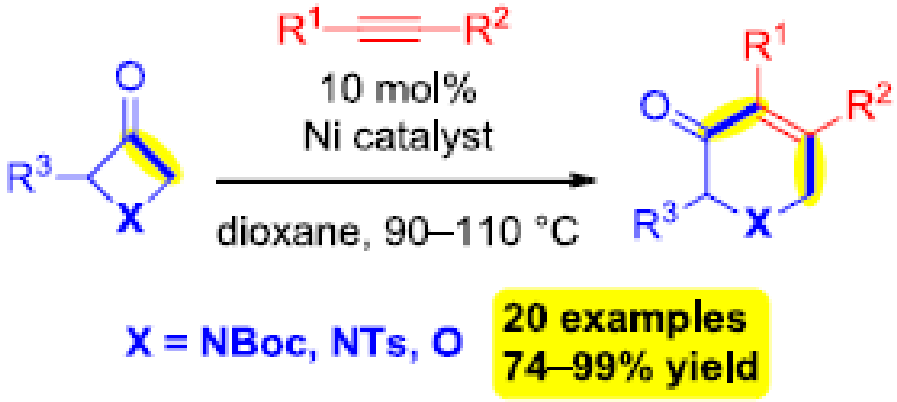

Chem. Eur. J. **2012**, *18*, 3486

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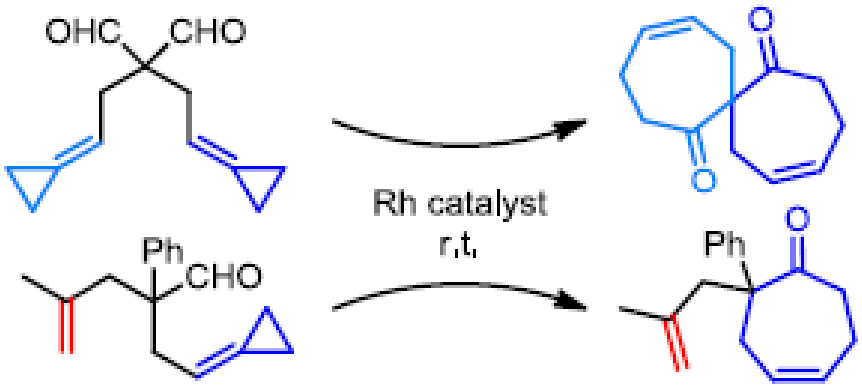

Chem. Commun. **2011**, *47*, 10957

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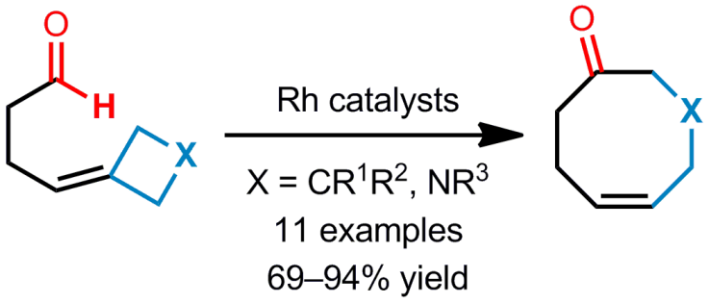

Angew. Chem. Int. Ed. **2010,** *49,* 620

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Glasgow University, UK	April 2014
Université de Nantes, France	March 2014
Chemiedozententagung 2014(Freie Universität Berlin, Germany)	March 2014
Ludwig-Maximilian Universität, Munich, Germany	January 2014
Technische Universität, Munich, Germany	January 2014
Johannes Kepler University, Linz, Austria	January 2014
East Anglia University, Norwich, UK	November 2013
Transatlantic Frontiers of Chemistry 2013 (Kloster Seeon, Germany)	August 2013
Chemiedozententagung 2013 (Freie Universität Berlin, Germany)	March 2013
University of Birmingham, UK	December 2012
Dr Reddy's Chirotech, Cambridge, UK	October 2012
ISACS7 Challenges in Organic Chemistry and Chemical Biology, Edinburgh, UK	June 2012
École nationale supérieure d'ingénieurs de Caen (Caen, France)	May 2012
Institut de Chimie des Substances Naturelles (Gif/Yvette, France)	May 2012
SCI Young Chemist Panel Review Meeting, London, UK	December 2011
AstraZeneca, Macclesfield, UK	May 2011
University of Manchester, UK	May 2011
Heriot Watt University, Edinburgh, UK	October 2010
Gregynog Synthesis Meeting, UK	September 2010
Institute of Chemical Research of Catalonia (Tarragona, Spain)	June 2010
Young Chemists Forum (Imperial College London), UK	April 2010
University of Leeds, UK	February 2010
University of York, UK	November 2009
Gregynog Synthesis Meeting, UK	September 2008
AstraZeneca, Alderley Park, UK	June 2008

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Training

Our research is perfectly suited for the training of postgraduate student or postdoctoral co-workers, who desire to acquire an in-depth knowledge of cutting-edge transition metal catalysis and organic chemistry. Hence, individuals who collaborate to this research will be prepared to their future career in an optimal manner.

Our research group is located in the recently refurbished Synthetic Organic Chemistry Laboratory of the University of Liverpool (£4.5 M), which offers an ideal environment to learn new techniques and do outstanding science. Each co-worker is entitled a fume cupboard, several stirring plates, a high-vacuum pump, a rotary evaporator etc ... as well as a direct access to a 500 MHz NMR apparatus, GC, HPLC, and glovebox

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Current group

Stephanie Yip (PhD), Maria Pin-No (PhD), Fathi Alwerfally (PhD), Manuel Barday (PhD)

Alumni

Lona Alkhalaf, Suzie Attard (Master), Laura Carman (PhD), Damien Crépin (PhD), James Dawick (Master), Eva Garcia Mosquera (Master), Fiona Hatton (Master), Kelvin Ho (PhD), James Murray (Master), Jet Sing Lee (Master), Laetitia Le Falher (Master), Coralie Tugny (Master), Daniel Tetlow (Postdoc)

With the financial support from

University of Liverpool
EPSRC
AstraZeneca
RCUK
Royal Society
Leverhulme Trust
Johnson Matthey

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We are always looking for people with a genuine passion for organic synthesis. If you also have a strong track record, good work ethic and if you would like to integrate the international research team, your application might be suitable.

Available and fully-funded positions are normally advertised. However, your application for a position could be considered if you provide your own funding. You may wish to examine the following options.

Importantly, if you are not a native speaker, you will need a certificate of proficiency (IELTS is recommended) before applying for most of these awards in the case of PhD studies. Other options are also available on the University website.

If appropriate, high-quality candidates will receive help to prepare a suitable application to these alternative sources of funding. Contact Dr Aïssa (aissa@liverpool.ac.uk) with a CV + summary of previous/current research + contact details of 2 references, as well as details on the fellowship you wish to apply for. If you do not receive a reply within 1 month, please consider your application as unsuccessful

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PhD studies

- Hong Kong Graduate Association Awards (full or part-payment of tuition fees)
- Liverpool Marshall Scholarships (up to £20K per year)
- Science without borders (Brazil/UK)

Postdoctoral researchers

- 1851 Research Fellowships (deadline usually in February)
- Individual Fellowships (European Commission, deadline usually in August)

If appropriate, high-quality candidates will receive help to prepare a suitable application to these alternative sources of funding. Contact Dr Aïssa (aissa@liverpool.ac.uk) with a CV + summary of previous/current research + contact details of 2 references, as well as details on the fellowship you wish to apply for. If you do not receive a reply within 1 month, please consider your application as unsuccessful

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Ph.D. Position Oct 2015

A **4-year fully-funded Ph.D. position is available** in the group directed by Dr Aïssa at the University of Liverpool. The position is available from October 2015. The position will be advertised until filled.

Funding is secured iCASE provided by AstraZeneca and covers both tuition fees and a maintenance stipend (>£13,863 a year).

Only UK citizens with a master degree in chemistry (2.1 and above) are eligible.