Applications of continuous-flow photochemistry in organic synthesis

Timothy Noël* 

1. University of Amsterdam, Van ’t Hoff Institute for Molecular Sciences (HIMS), Science Park 904, 1098 XH Amsterdam, The Netherlands  
*E-mail: t.noel@uva.nl  
Website: www.NoelResearchGroup.com  
Twitter/Instagram: @NoelGroupUVA

Visible light photoredox catalysis has received much attention in recent years as a mild and sustainable activation mode for organic molecules. In particular, when coupled with microreactor technology, an efficient irradiation of the reaction medium is achieved.

Special focus will be devoted to the development of novel photocatalytic reactions, including photon-induced hydrogen atom transfer, and we will demonstrate how these transformations benefit from being carried out in continuous photomicroreactors. Details on both engineering and chemical/catalytic aspects of continuous-flow photochemistry will be given.