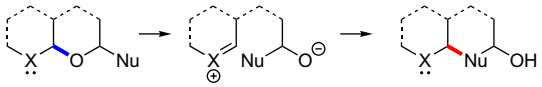
ELSEVIER

Tetrahedron

Tetrahedron Vol. 63, No. 15, 2007

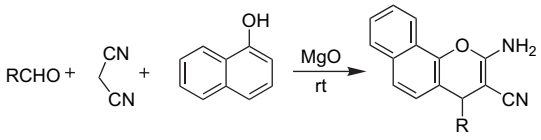
Contents

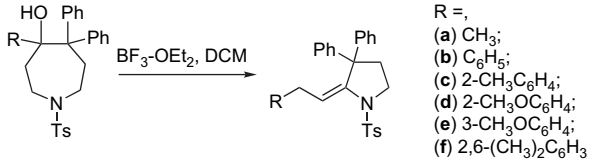
REPORT

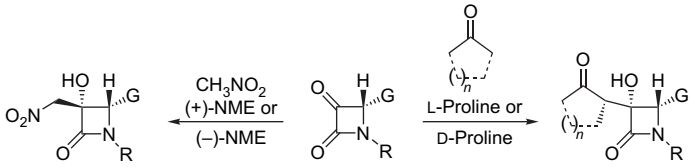


The use of non-concerted oxygen-to-carbon rearrangement strategies for the stereoselective synthesis of functionalised carbocycles is reviewed. The report contains over 60 references.

ARTICLES

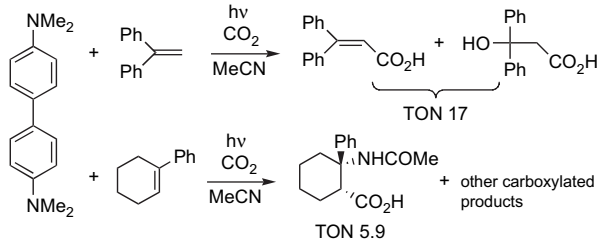


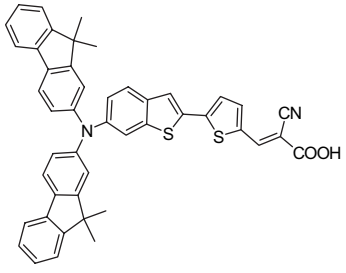




NME = *N*-methylephedrine; *n* = 0, 1; R = aryl, alkyl; G = 2,2-dimethyl-[1,3]dioxolanyl

Total asymmetric induction by the substrate, with the chirality of the catalyst having no effect on the overall stereoselectivity.





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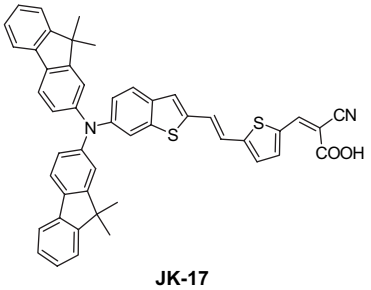

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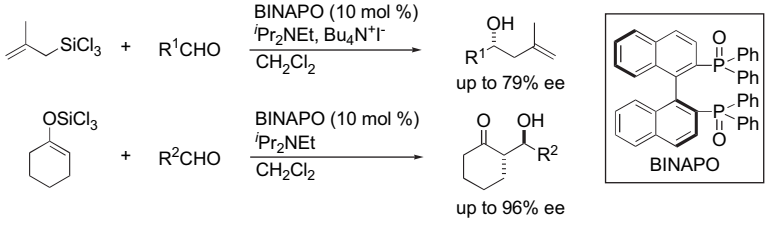
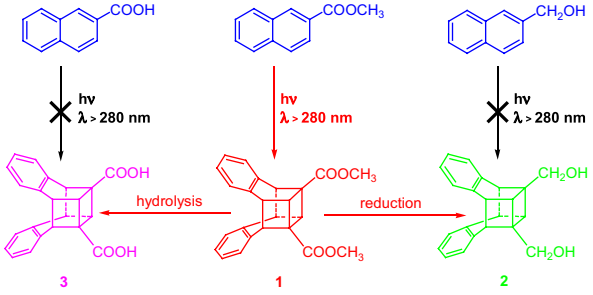
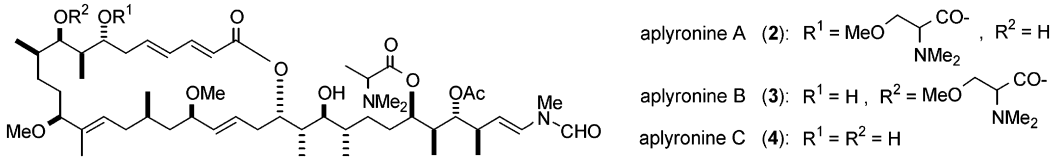
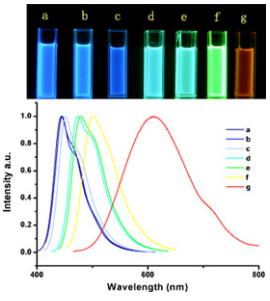
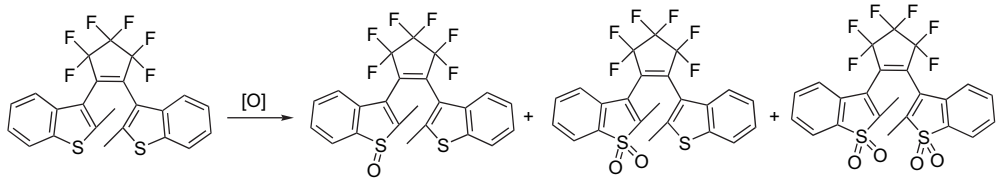


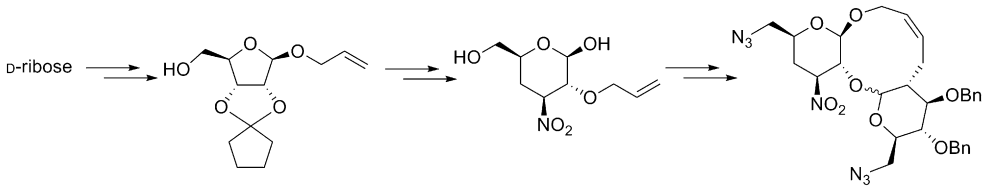


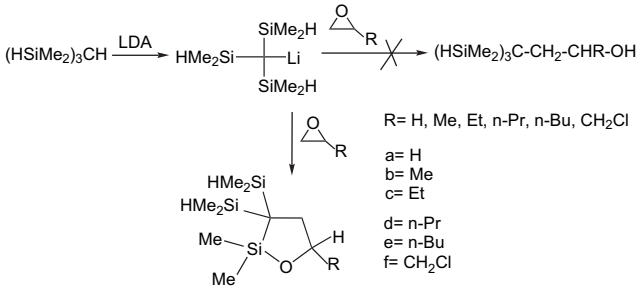


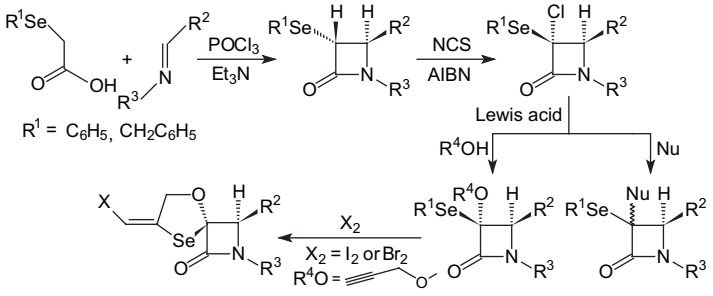
A simple and effective strategy for synthesis of bis-dipolar trimeric OPVs (a–g) with same push–pull electron groups at the two ends is presented. A successful tuning in the emission color was achieved and the LUMO energy level was found to correlate with the Hammett constant of the respective substituents, providing a powerful strategy for prediction of the photoelectrical properties of new chromophores.

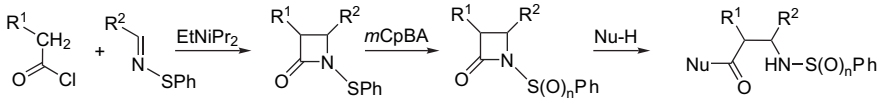


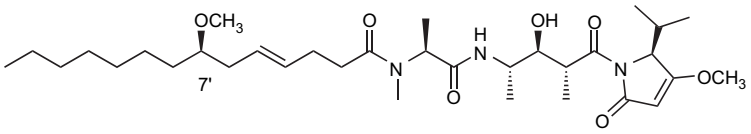












OTHER CONTENT

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

N-Phenylsulfenylimines are interesting new partners in Staudinger cycloadditions with alkoxyketenes. The electron rich sulfenyl moiety enhances the reactivity of the imine. The reversal of its polarity through oxidation enables subsequent smooth opening of the β-lactam ring by nucleophilic attack. The overall sequence provides a straightforward and efficient route to highly functionalized β-amino acid derivatives. *Tetrahedron* **2007**, *63*, 3205–3216.

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts. Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

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