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Tetrahedron

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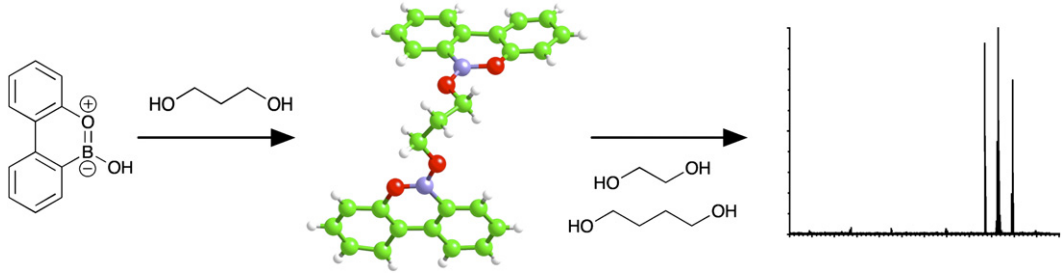
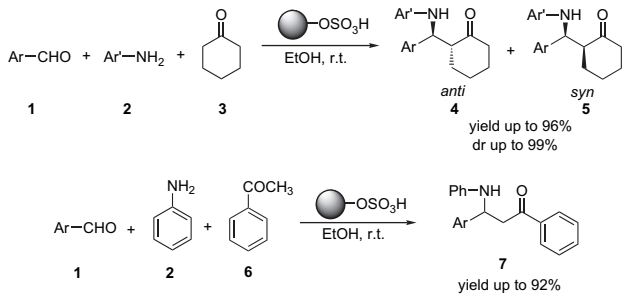
Contents

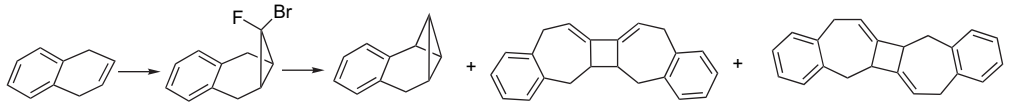
REPORT

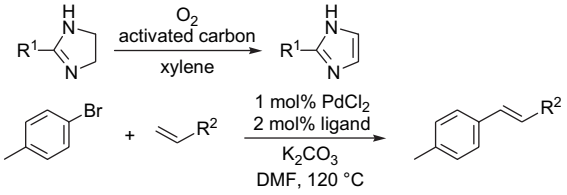
Ionic liquids are becoming widely used in synthetic organic chemistry and yet relatively little attention has been paid to the intrinsic reactivity of these low temperature molten salts. An increased number of reports allude to the non-innocent nature of many ionic liquids. Knowledge of unexpected catalytic activity of ionic liquids and unforeseen by-product formation are important considerations for synthetic chemists using ionic liquids. In addition, an increasing number of ionic liquids viz. task-specific ionic liquids are being designed to be reactive for carrying out a specific transformation. In this review, we focus on the reactivity *of* ionic liquids, as opposed to reactivity *in* ionic liquids (although discussion of the latter is often included where it aids understanding of the former).

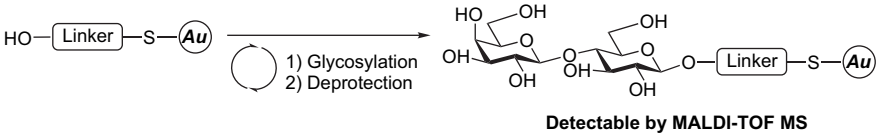
ARTICLES



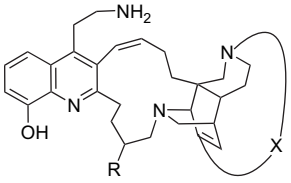


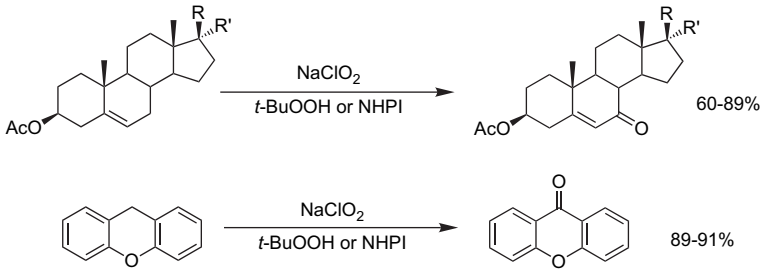


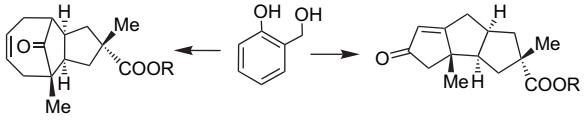




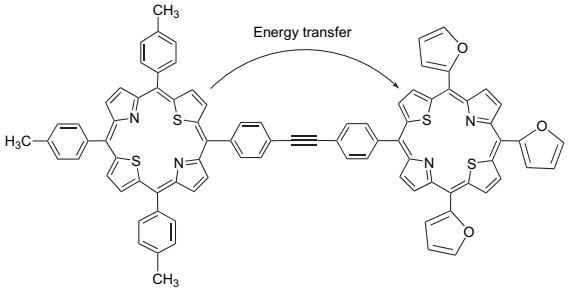
Utility of NaOAc in glacial HOAc as a catalyst for aldol-type condensation reactions was examined. Reactions of cycloalkanones and selected heteroaromatics with various aromatic aldehydes in the presence of NaOAc in acetic acid afforded α,α′-bis(substituted-benzylidene)cycloalkanones and substituted-benzylidene heteroaromatics, respectively, in good yields.

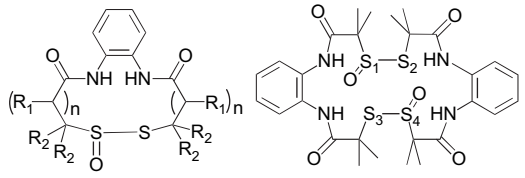


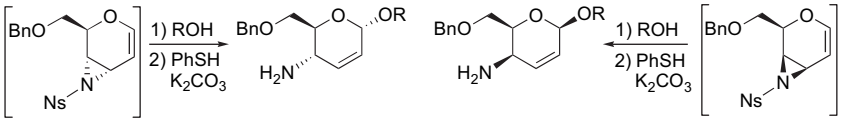


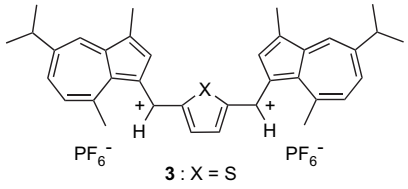


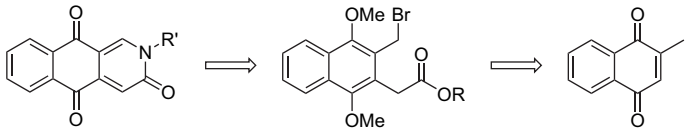
Porphyrins having three *meso*-furyl groups and one iodophenyl group were synthesized and used for the synthesis of six dyads, which showed efficient energy transfer between the two porphyrin sub-units.

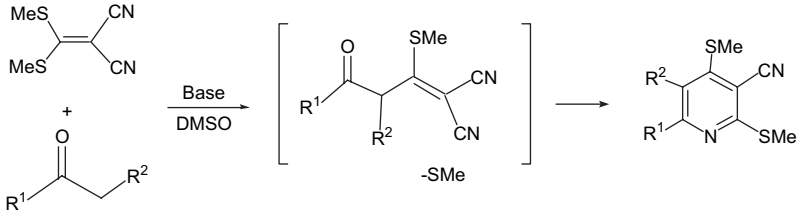


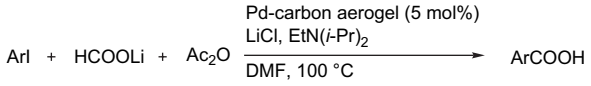


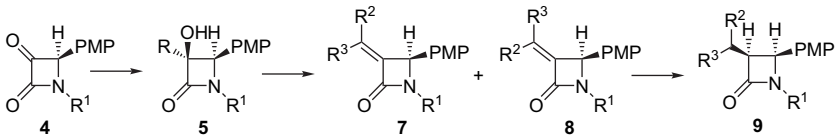












*Corresponding author
Supplementary data available via ScienceDirect

COVER

The cover figure shows an underwater picture of the Tanzanian sponge *Reniera* sp. Six members of a new family of complex polycyclic alkaloids with cytotoxic properties, the njaoamines A–F, have been isolated from extracts of this organism. *Tetrahedron* **2007**, *63*, 2432–2438.

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