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Tetrahedron

Tetrahedron Vol. 62, No. 47, 2006

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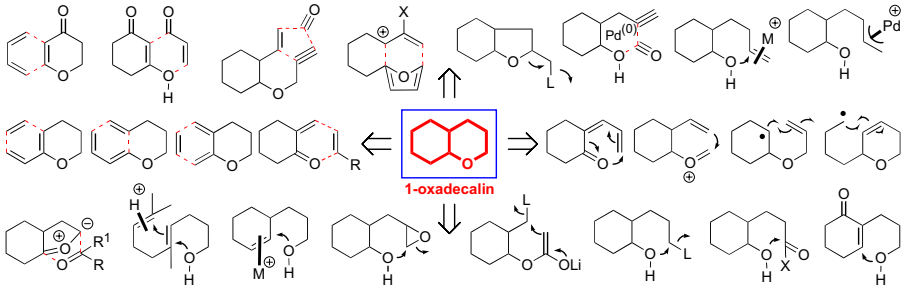
REPORT



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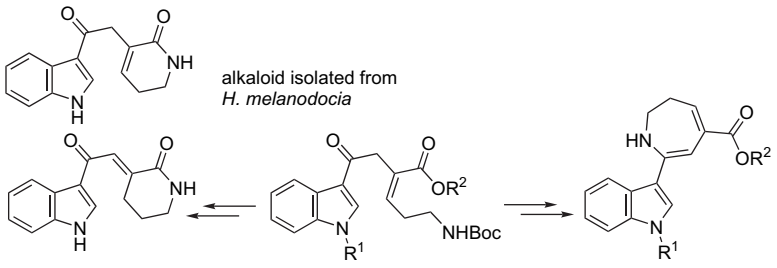
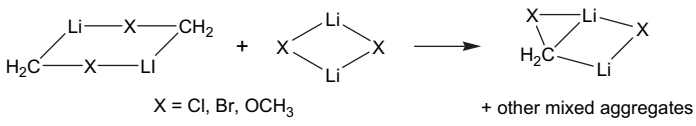
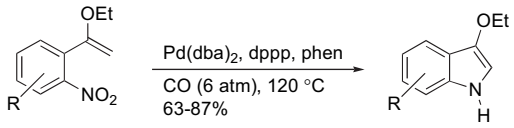
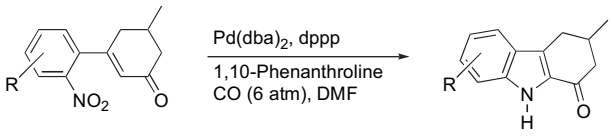
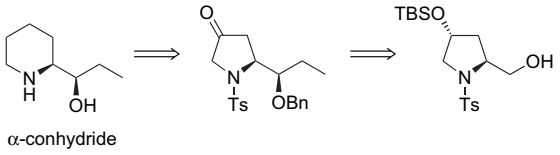
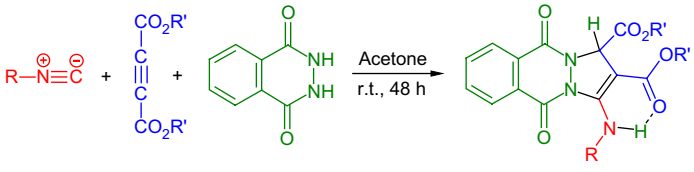


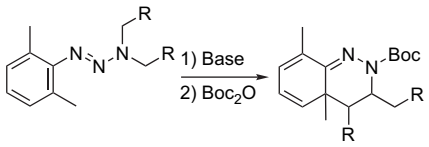


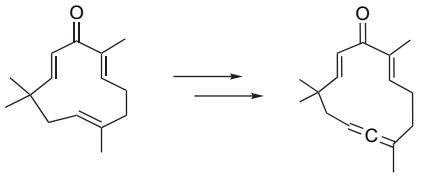


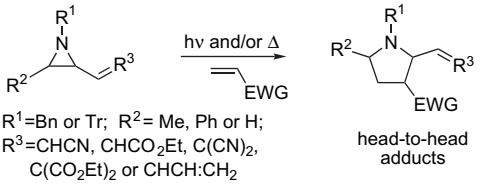




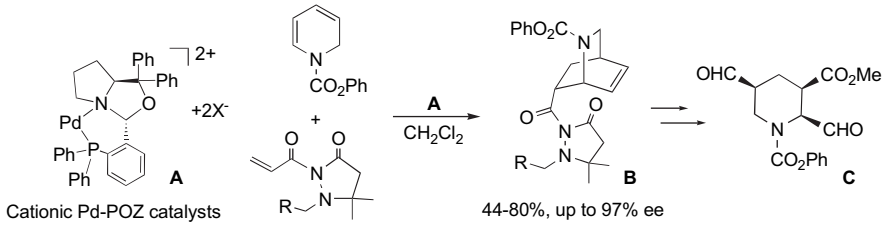




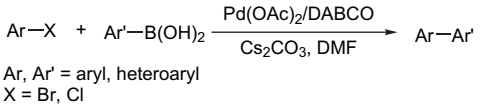


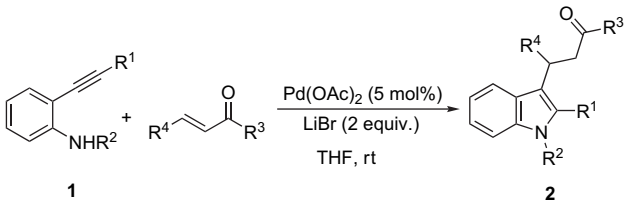


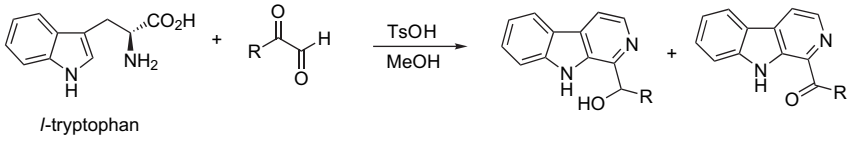
The photoreaction of tri- or disubstituted aziridines with electron-deficient alkenes afforded the novel head-to-head adducts selectivity and efficiently.

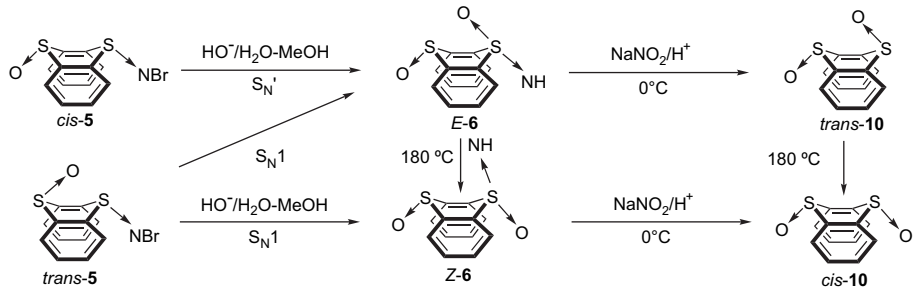


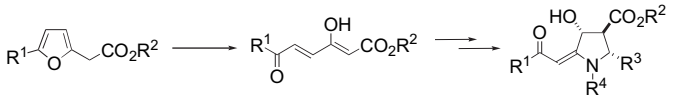
The DA reaction of 1-phenoxycarbonyl-1,2-dihydropyridine with 1-substituted 2-acryloylpyrazolidin-3-ones using cationic chiral Pd–phosphinooxazolidine catalyst **A** afforded chiral isoquinuclidines **B** with an excellent enantioselectivity (up to 97% ee). Furthermore, **B** was transformed to chiral piperidine **C** bearing three chiral carbon centers in the structure.

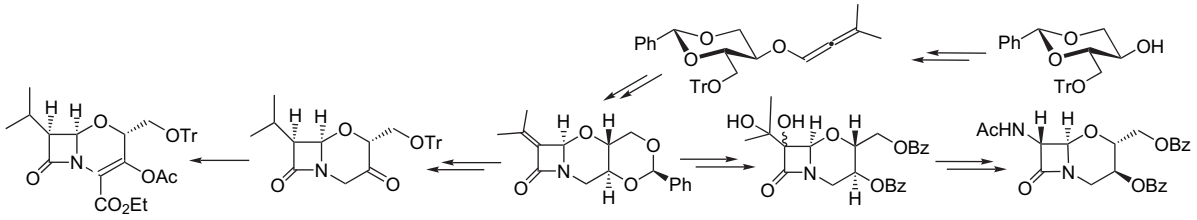


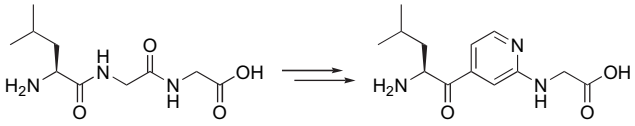


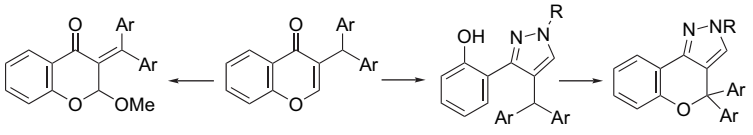


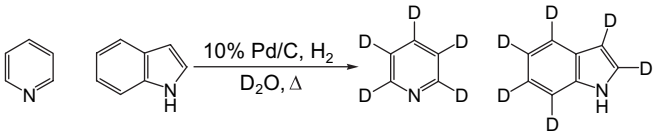


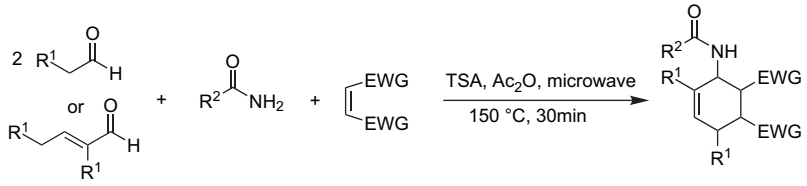




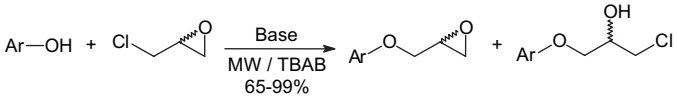


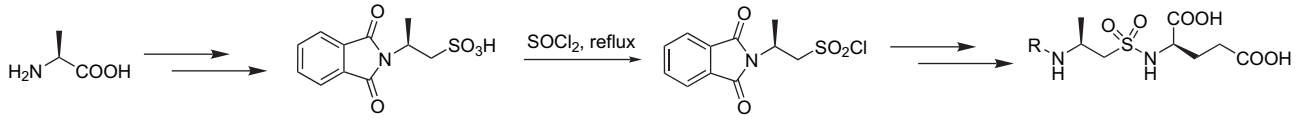


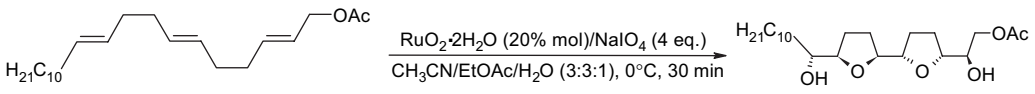


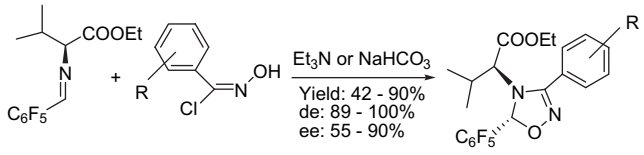


Microwave induced multicomponent reaction without solvent comprising of aldehydes, amides, and dienophiles.









Two methods for the stereospecific 1,3-dipolar cycloaddition reaction of chiral imines and nitrile oxides are described.

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

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ISSN 0040-4020