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**New Methods and Synthetic Applications of Asymmetric Nitrogen Transfer**

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**摘要** Structure/reactivity relationships of *N*-alkoxycarbonyl- and *N*-carboxamidooxaziridines are explored, and conditions are discovered for the efficient amination of sulfides and primary amines. Reactions of these oxaziridines with alkenes are also examined, and lead to interesting new heteroatom transfer reaction products. Finally, the aminative rearrangement of 2-alkoxydihydropyrans leads to a useful stereocontrolled synthesis of pyrrolidines which can undergo synthetic manipulations to give [2.2.1]- and [3.2.1]-azabicycles.

**关键词** [N-alkoxycarbonyl](#), [N-carboxamidooxaziridine](#), [amination](#)

分类号

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**Abstract** Structure/reactivity relationships of *N*-alkoxycarbonyl- and *N*-carboxamidooxaziridines are explored, and conditions are discovered for the efficient amination of sulfides and primary amines. Reactions of these oxaziridines with alkenes are also examined, and lead to interesting new heteroatom transfer reaction products. Finally, the aminative rearrangement of 2-alkoxydihydropyrans leads to a useful stereocontrolled synthesis of pyrrolidines which can undergo synthetic manipulations to give [2.2.1]- and [3.2.1]-azabicycles.

**Key words** [N-alkoxycarbonyl](#) [N-carboxamidooxaziridine](#) [amination](#)

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