

Nucleophilic substitution reactions at sp^2 hybridized atoms

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Concerted nucleophilic substitution reaction proceeds smoothly at sp^3 atoms, while it hardly occurs at sp^2 centers. By our recent study, such a nucleophilic substitution is found to proceed at sp^2 atoms of oximes, lithium carbenoids, and even vinylic halides. In this lecture are introduced such sp^2 -center substitution reactions (mostly vinylic substitution) with experimental and theoretical examples.