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#### Latest trends in the introduction of fluorine-containing anions into organic molecules

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Recent progress in investigations of the reactivity of the  $\text{CF}_3\text{SiMe}_3/\text{TASF}$  system, amido- and alkylamidophosphites to different type of electrophiles will be reported. The processes developed make it possible to introduce into organic molecules a range of fluorinated anions of a broad spectrum of nucleophilicity. The possible mechanism of the reactions, and spectral and single crystal X-ray data of the compounds obtained are discussed.

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#### Perfluoroalkyl iodide coupling in aqueous media

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A careful review of the literature would lead one to believe that coupling reactions between perfluoroalkyl iodides would not occur in aqueous media. Indeed, reduction to the hydroperfluorocarbon is expected. We have found that addition of linear perfluoroalkyl iodides to aqueous suspensions of zinc metal lead to the formation of pure linear perfluoroalkanes. Easily prepared are n-perfluorooctane from  $\text{C}_4\text{F}_9\text{I}$ , n- $\text{C}_{12}\text{F}_{26}$  from  $\text{C}_6\text{F}_{13}\text{I}$ , and n- $\text{C}_{16}\text{F}_{34}$  from  $\text{C}_8\text{F}_{17}\text{I}$ . Mixed materials could be separated easily by physical means. The scope of the reaction as a function of acid strength and concentration, different fluorinated iodoalkanes, different metals, and metal  $R_f\text{I}$  ratio will be reported.