**Immobilization of Organic Functional Groups onto Silica**

**Significance:** Functionalized vinylsilanes 3 were prepared by hydroacylation of dimethylvinylsilane (2) with various aldehydes 1 in the presence of (Ph$_3$P)$_2$RhCl, 2-amino-3-picoline, and 4-(trifluoromethyl)benzoic acid (63–92% yield, 11 examples). Immobilization of 3 onto silica by using [IrCl(coe)$_2$]$_2$ and DMA-HCl gave the corresponding functionalized silica compounds 4 with 0.58–1.04 mmol/g of loading (11 examples).

**Comment:** The silica-immobilization method ([IrCl(coe)$_2$]$_2$; DMA-HCl) has been developed by the same authors (Org. Lett. 2007, 9, 4073). Surface modification of hydrophilic glass slides with vinylsilanes 3e–g gave the significantly hydrophobic glass slides 9e–g as estimated from contact angle measurements.