

Title: Fluorinated Alkoxide Ligands Supporting {MO(H)} Moieties Performing C-H Bond Oxidation

Abstract: Our group continues to develop the chemistry of 3d transition metal alkoxide complexes for the oxidation of C-H bonds. Two families will be discussed. Late transition metal complexes react with O₂ to form highly reactive species for C-H bond oxidation that have limited stability. Earlier (middle) transition metal complexes can oxidize C-H bonds in air without such demanding conditions for formation of the key moiety. Examples of both will be presented, including published and unpublished work.