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Probing Metal Cluster and Metal Oxide Cluster Interactions with Organo- Sulfur and Organo-Phosphorous Molecules using Mass Spectrometry and Anion PES

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Abstract: Mass spectrometry anion photoelectron spectroscopy and density functional theory calculations have been applied to several **aluminum oxide** cluster complexes. The reactivity of several "magic" clusters (i.e. those species that dominate the mass spectrum) toward water and methanol has been explored and for one system A1303- + 1 and 2 H20 the reaction products have been determined by comparing experimental and computational results. The Density functional theory calculations have been successfully applied to a number of transition metal complexes with the intent that they will be applied in the future to transition metal disulfide cluster systems. Preliminary results on the spectra of larger hypermetallic **aluminum oxide** clusters are presented.

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