

Abstract Submitted  
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**High Capacity Hydrogen Absorption in Supported Isolated Molecules and Clusters**<sup>1</sup> BELLAVE SHIVARAM, ADAM PHILLIPS, University of Virginia — Results of recent experiments at the University of Virginia where isolated molecules and clusters of transition metal based organo metallic complexes collected on quartz substrates have shown record breaking hydrogen gas absorption at room temperature will be presented. Existing theoretical suggestions for the exotic nature of the binding of molecular hydrogen to such complexes will be discussed.

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Bellave Shivaram  
University of Virginia

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