

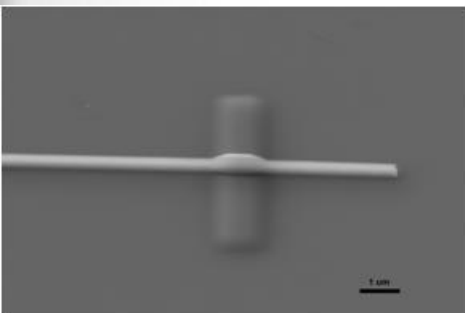
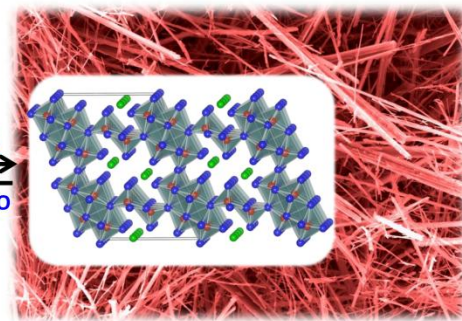
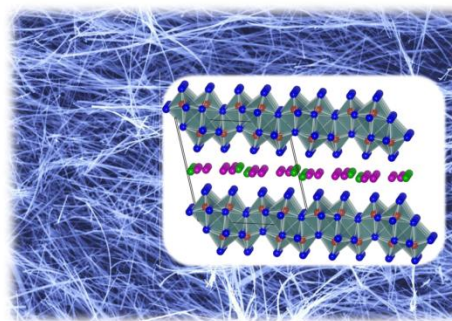


Reversible Interconversion of δ and β $\text{Ca}_x\text{V}_2\text{O}_5$ and Chemical Lithiation of Individual V_2O_5 Nanowires

Sarbajit Banerjee, Department of Chemistry, University at Buffalo, SUNY, Buffalo, NY 14260

Unprecedented dehydration/hydration induced phase transformation of δ and β phases of $\text{Ca}_x\text{V}_2\text{O}_5$: provides a means to link phase diagrams of two most important $\text{M}_x\text{V}_2\text{O}_5$ frameworks

Synthetic route established to both δ and β -phase nanowires of $\text{Ag}_x\text{V}_2\text{O}_5$



V_2O_5 nanowires have been prepared by hydrothermal treatment and vapor transport

Individual nanowires isolated by focused ion beam deposition of leads

Formal vanadium oxidation state tracked as a function of lithiation by X-ray absorption spectroscopy

