

Title: A Development of High Power and High Voltage Cathodes and Electrolytes via High Throughput Methods

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Wildcat Discovery Technologies has developed a high throughput synthesis and screening platform for battery materials. Wildcat's system produces materials in bulk form, enabling evaluation of its properties in a standard cell configuration. This allows simultaneous optimization of all aspects of the cell, including the active materials, binders, separator, electrolyte and additives.

Wildcat is using this high throughput system to develop new electrode and electrolyte materials for a variety of battery types (primary, secondary, aqueous, non-aqueous). In this talk, I will discuss our latest discovery, a non-layered oxide cathode with capacity >250 mAh/g, irreversible capacity <10%, and superior rate capability, cycle life, and energy stability to lithium-rich layered oxides in full cells.