

# High-capacity lithium-ion batteries

# A versatile platform technology for controlled production of metal-oxide coatings

## Technology

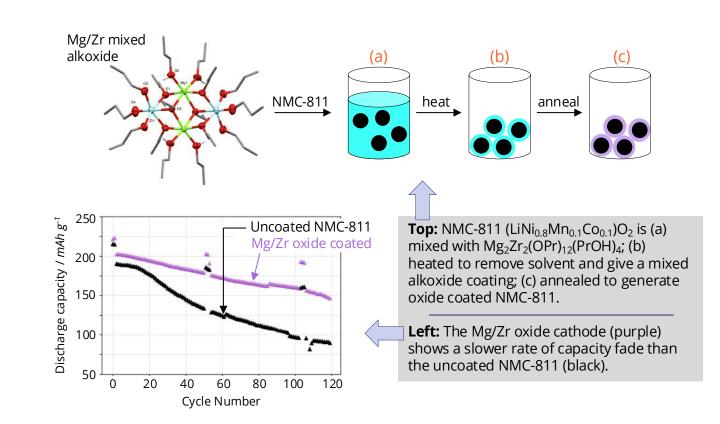
Bimetallic alkoxides act as low-cost precursors to mixed metal oxide coatings to stabilise cathodes in high-capacity Li-ion batteries.

#### Benefits

- Versatile, non-hazardous and readily scaled chemistry.
- Can be used to stabilise high nickel cathodes and hence increased Li-ion cell capacities without a reduction in useable lifetime.
- Offers potential for low- / zero- cobalt content, alleviating costs and ethical concerns associated with its mining.

## Commercial applications

- Ideal for development of high capacity lithium-ion batteries including NMC-811, (LiNi<sub>0.8</sub>Mn<sub>0.1</sub>Co<sub>0.1</sub>)O<sub>2</sub> (i.e. 80% nickel; 10% manganese; 10% cobalt) -.
- A platform primed for optimisation: applicable to a wide range of metals, allowing e.g., electrode barrier and ion transport properties to be controlled and improved.



# Opportunity

We are seeking partners to license or co-develop this technology.

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