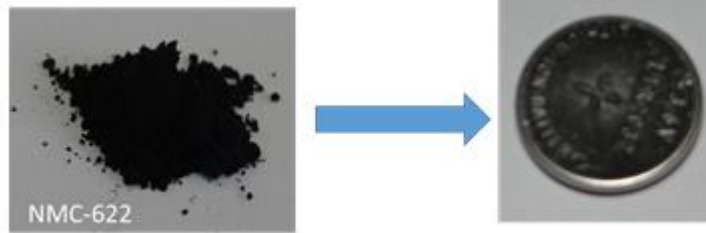


# Synthesis of NMC cathode for lithium ion battery



Lithium ion batteries are one of the best energy storage systems due to their inherent safety, higher capacity and lower weight. These batteries are very useful in various sectors like telecommunication, transportation and different portable electrical devices. Other advantages of lithium ion battery include their (a) light weight (b) high open circuit voltage (c) low discharge rate. Battery containing NMC based cathode exhibit higher voltage, higher capacity and high rate capability.

## **SALIENT FEATURES**

- Presently, NMC based cathodes are not manufactured in India.
- Indian entrepreneurs can directly use these materials for battery production.
- Synthesized from readily available raw material sourced from local market.
- The synthesis technology has been simplified.

## **APPLICATIONS**

- This NMC can be directly used as cathode in Lithium-ion battery.
- Batteries with different dimensions like coin cell, pouch cell prismatic cells can be fabricated.
- These batteries are useful in different industries like power tools, portable electrical devices, electrical vehicles etc.