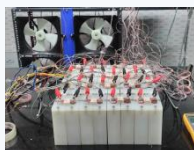


## CENTRE FOR AUTOMOTIVE ENERGY MATERIALS (CAEM)

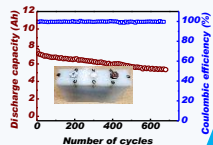
Prototype 48V module fabricated & demonstrated with 2-wheelers



Novel graphene synthesis From carbon nanohorns



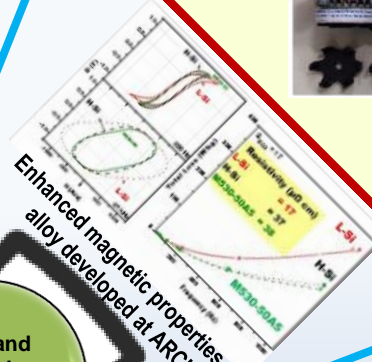
Assembly and testing of 48V, 500 Wh LIB pack



Prototype motors developed using ARCI magnetic material



Enhanced magnetic properties of alloy developed at ARCI



Graphene for LIB anode

Soft and hard magnets for EV

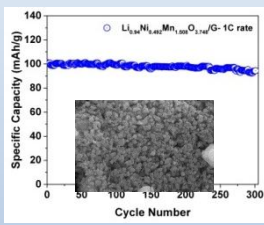
Metal doped spinel for LIB cathode

Thermo electric for waste heat recovery

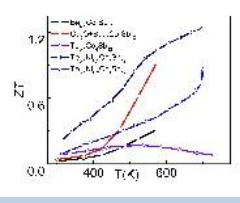
Carbon coated Li-layered oxides for LIB cathode

Sodium ion battery for storage application

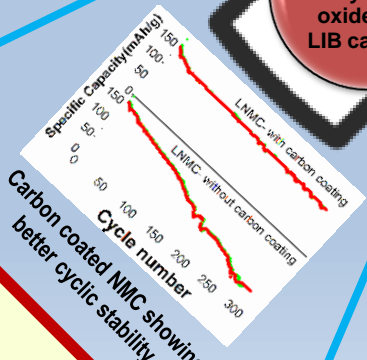
Hard ferrite (Sr-ferrite) for automotive applications



Graphene/LMO cathode showing excellent stability



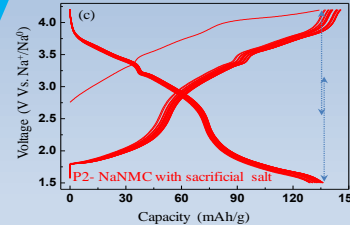
Highly efficient skutterudites thermoelectric materials



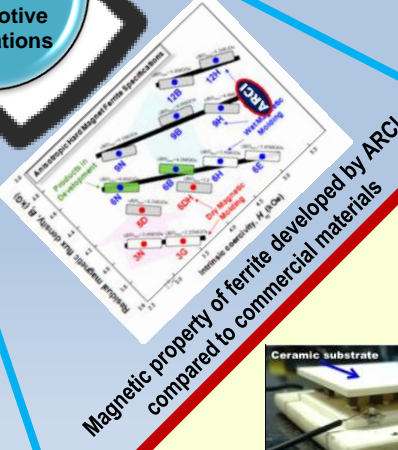
Carbon coated NMC showing better cyclic stability



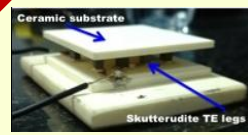
Various electrodes fabricated



P2-NaNMC showing good capacity retention



Magnetic property of ferrite developed by ARCI compared to commercial materials



Thermoelectric module developed at ARCI



LIB pilot-plant facility



LIB pack testing facility



Magnetics Lab



Thermoelectric lab