Lithium ion battery

sbh4 consulting

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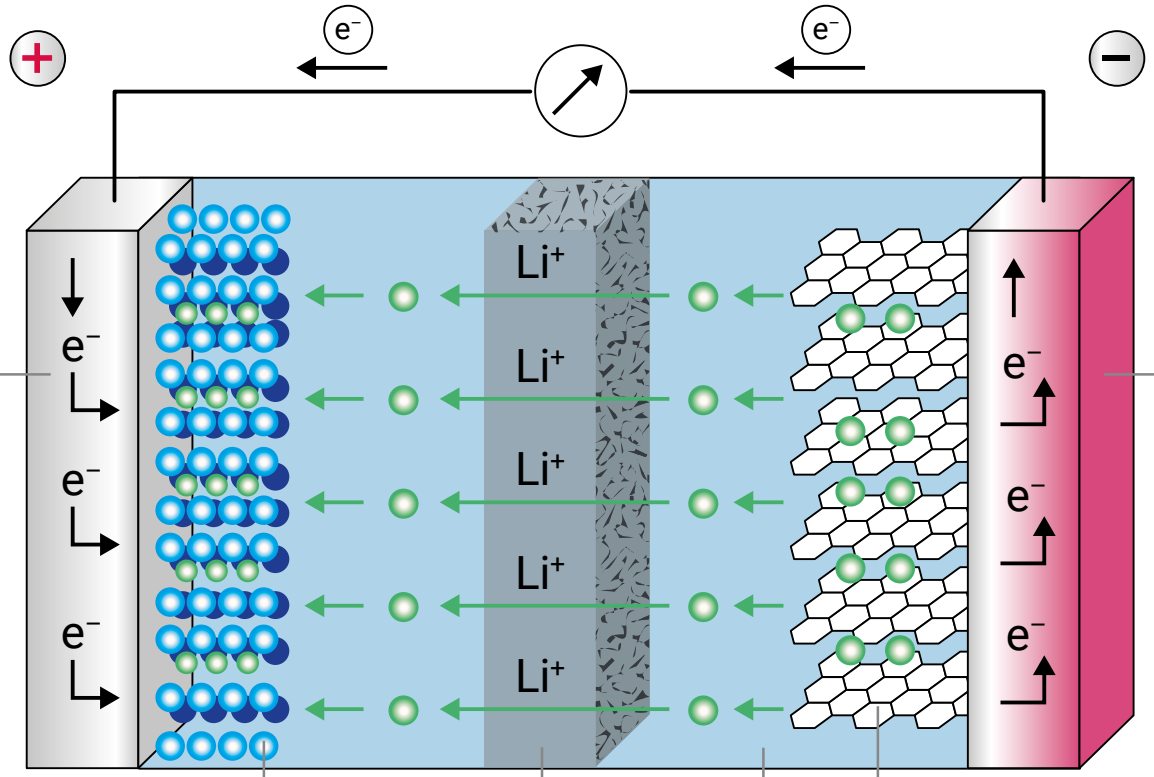
Battery shown in discharge mode



Aluminium foil postive current collector

Copper foil negative current collector

Separator membrane, typically polyethylene or poly-propylene, potentially coated with a protective layer such as aluminium oxide

Lithiated graphite

Lithium cobalt oxide(LCO), Lithium manganese oxide (LMO), Lithium iron phosphate (LFP), Lithium nickel manganese cobalt oxide (NMC) or Lithium nickel aluminium oxide (NCA)

Li^+ ion conducting electrolyte

$LiPF_6$ in a mixture of carbonates, eg dimethyl carbonate, ethylene carbonate