

A diagram illustrating the relationship between LIBs (Lithium-Ion Batteries) and various nanomaterials. At the top center is a light blue circle labeled "LIBs". To its left is a large grey arrow pointing left, containing the text "Anode material: Si, Ge, Sn, etc.". To its right is a large grey arrow pointing right, containing the text "Na⁺, Al³⁺, Mg²⁺". Above the left arrow is the text "High energy density". Above the right arrow is the text "Abundant reserves" and "Low cost". Below the right arrow is the text "delicate designs at microscale/nanoscale". At the bottom is a dark blue rectangular box labeled "Various nanomaterials", with a blue arrow pointing upwards from it towards the space between the two large grey arrows.

LIBs

High energy density

Abundant reserves
Low cost

Anode material:
Si, Ge, Sn, etc.

Na⁺, Al³⁺, Mg²⁺

delicate designs at microscale/nanoscale

Various nanomaterials