



Among the latter, porous carbons with embedded cobalt and cobalt oxide nanoparticles have been widely investigated in the field of energy conversion and storage: lithium-ion batteries [20,21 ...

Lithium-air batteries possess a high theoretical energy density among the current battery technologies, and are expected to become the driving power for electric vehicles. However, the practical application of lithium air batteries is handicapped by their poor cycle life, high over-charge potential and low energy efficiency. Numerous studies have performed to improve the ...

significant concerns about the battery's developments; an alternative technology is needed to replace the expensive lithium-ion batteries at use. Therefore, the sodium-ion batteries (SIBs) were brought back to life. Sharing a similar mechanism as the lithium-ion batteries makes SIBs easier to understand and more effective in the research.

Lithium-ion batteries (LIBs) originally commercialized by Sony Co. in 1991 consist of lithium cobalt oxide cathode and graphite anode both capable of reversibly insertion/extraction of lithium ions,

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Organic-based electrode materials for lithium-ion batteries (LIBs) are promising due to their high theoretical capacity, structure versatility and environmental benignity. However, the poor intrinsic electric conductivity of ...

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