

# **Fast charging of energy storage containers at the Hargesa Chemical Plant**





## Overview

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How can nanostructures be used in fast-charging systems?

To enable their application in fast-charging systems, modification approaches including the design of nanostructures to mitigate volume change , , integration with carbon materials to enhance  $\text{Li}^+$  transport kinetics , and surface modifications , to prevent the interface side reactions are commonly used.

What is a fast-charging Lib?

The basic principle of fast-charging LIBs is to achieve fast  $\text{Li}^+$  transport in both electrode and electrolyte as well as the electrode/electrolyte interfaces.

Why are Si based materials a good choice for charging and discharging?

Like the conversion-typed TMOs, Si-based materials also experience large volume changes during charging and discharging process, despite their ultrahigh theoretical specific capacity ( $4200 \text{ mA h g}^{-1}$ , 10 times that of graphite), low Li intercalation potential ( $<0.4 \text{ V vs Li/Li}^+$ ), and natural abundance .

How to achieve superior fast-charging performance?

To attain superior fast-charging performance, it is imperative to expedite the kinetics of  $\text{Li}^+$  (de)intercalation within the electrodes, the migration of  $\text{Li}^+$  within the electrolyte, and the transfer of  $\text{Li}^+$  at the electrolyte/electrode interfaces , .



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