Discharge sequence of New Zealand solar container lithium battery pack

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Why is discharge important in the recycling of retired lithium-ion batteries?
Discharge is an essential step during the recycling of retired lithium-ion batteries. However, state-of-the-art discharge methods are inefficient and/or contribute to pollution, as the reaction mechanisms underlying different discharge pathways remain poorly understood.

Why is discharge capacity estimation important for lithium-ion battery packs?
This method is significant for the groupingof lithium-ion battery packs,as well as the maintenance and replacement policy of battery packs. Abstract Discharge capacity estimation for battery packs is one of the most essential issues of battery management systems. Precision of the estimation will affect maintenance policy and reliabilit...

What is a safe discharge strategy for retired lithium-ion batteries?
As a consequence,a rapid and safe discharge strategy for retired lithium-ion batteries is developed through a reversed physical short-circuitwith which the lithium-ion migration velocity achieves 610.07 mg/h and the energy consumption is reduced by 54.24% compared with traditional physical discharge.

Which discharge pathways affect lithium-ion migration and safety?
To explore reliable,safe,and rapid discharge methods,this research systematically investigated the effects of three discharge pathways,namely,water electrolysis,electrolyte leakage,and short-circuit exothermic discharge,on lithium-ion migration and safety.

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For lithium-ion battery packs with cells connected in parallel, a method is provided herein to predict the discharge current of the cells. Based on this ...

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