

A Gradient Screening Approach for Retired Lithium-ion Batteries Based on X-ray Computed Tomography Images

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Supporting Figures and Tables

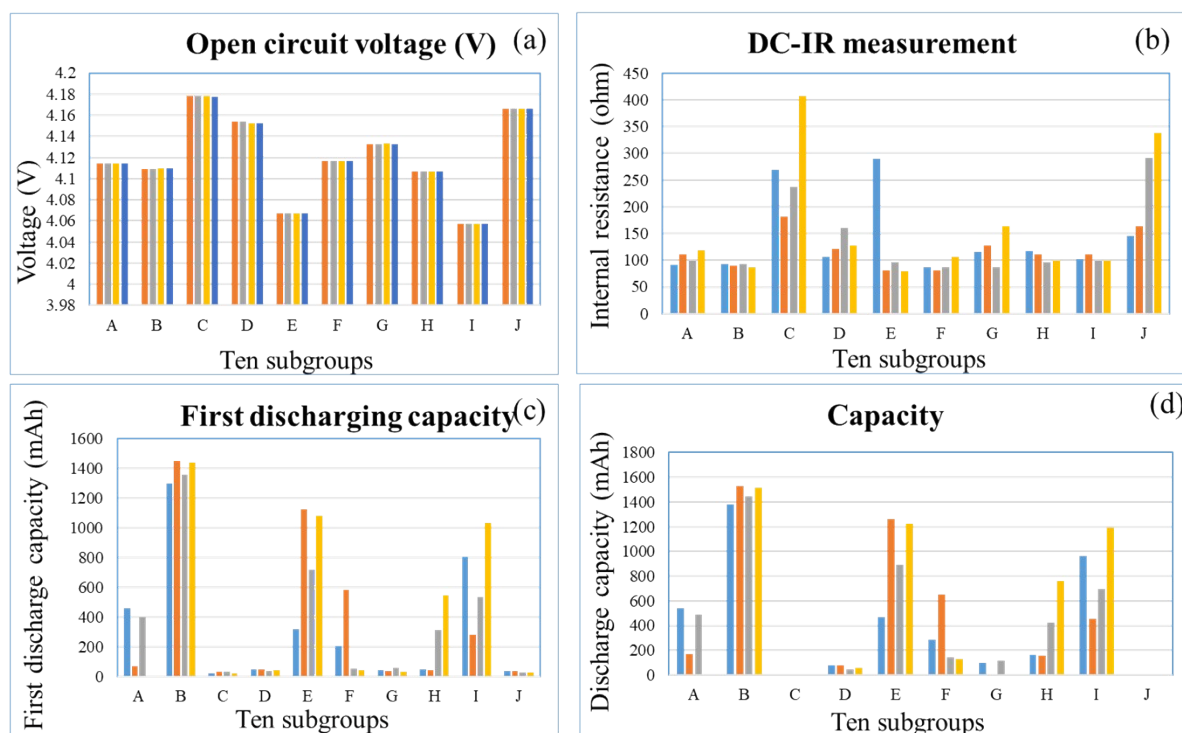


Fig.S1 Electrochemical performance of 40 unpacked cells: (a) the OCV, (b) the internal resistance, (c) first discharge capacity (d) the capacity.

Grating	1	2	3
Voltage (V)	A、B、F、G、H	E、I	C、D、J
DC-IR	B、E	A、F、H、I	C、D、G、J
First discharge capacity (mAh)	B、E、I	A、F、H	C、D、G、J
Discharge capacity (mAh)	B、E、I	A、F、H	C、D、G、J

Table S1: Screening results of ten subgroups for retired lithium ion battery. Group B and E is sorted in the same collection with better electrochemical performance compared to the rest.

Capacity (mAh)	Numbers
0~600	31
600~1000	2
1000~1200	3
1200~1400	2
1400~1600	2

Table S2: Capacity grating results of forty retired batteries. The battery can be reused only when the capacity is above 1000 mAh.