

Supplemental information for: Initial Characterization of two Batches of Commercial Hard-carbon /
NaxNiyFezMn1-y-zO2 Sodium Ion 18650 Cells

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Supplemental Data:

Table S1: Cycling parameters included in the manufacturer specification sheets

Type	Voltage Window (V)	Temperature Range (°C)	Max Charging Current (A)	Max Discharging Current (A)	Nominal Capacity (Ah)
HKD	1.5 – 4.1	-10 - 45	1.5 (1C)	4.5 (3C)	1.5
TCR	1.5 - 3.95	-10 – 45	1.3 (1C)	3.9 (3C)	1.3

Physical properties of electrode:

Table S2: Physical Dimension of the PEs from the HKD and TCR cells

Cell	Active Material Layer Thickness (μm)	Total Thickness (μm)	PE Width (cm)	PE Length (cm)
HKD	65	163	5.56	56
TCR	66	179	5.715	55

Table S3: Physical Dimension of the NEs from the HKD and TCR cells

Cell	Active Material Layer Thickness (μm)	NE Total Thickness (μm)	NE Width (cm)	NE Length (cm)
HKD	94	227.5	5.56	63.5
TCR	90	221.2	5.715	63

EDS Maps:

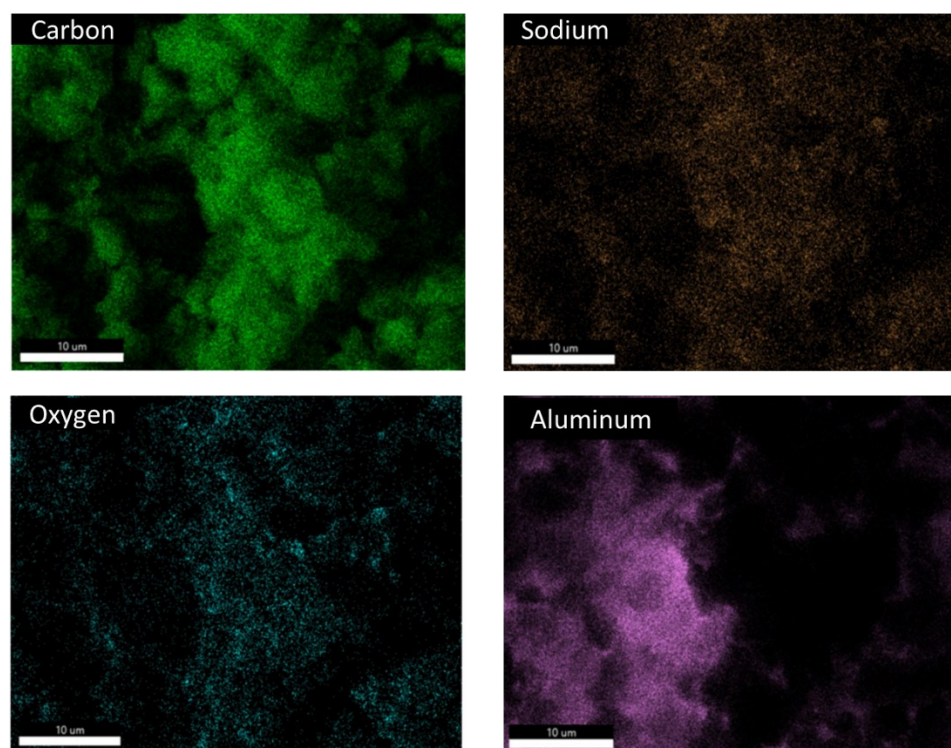


Figure S1: Element Maps for TCR Negative Electrode

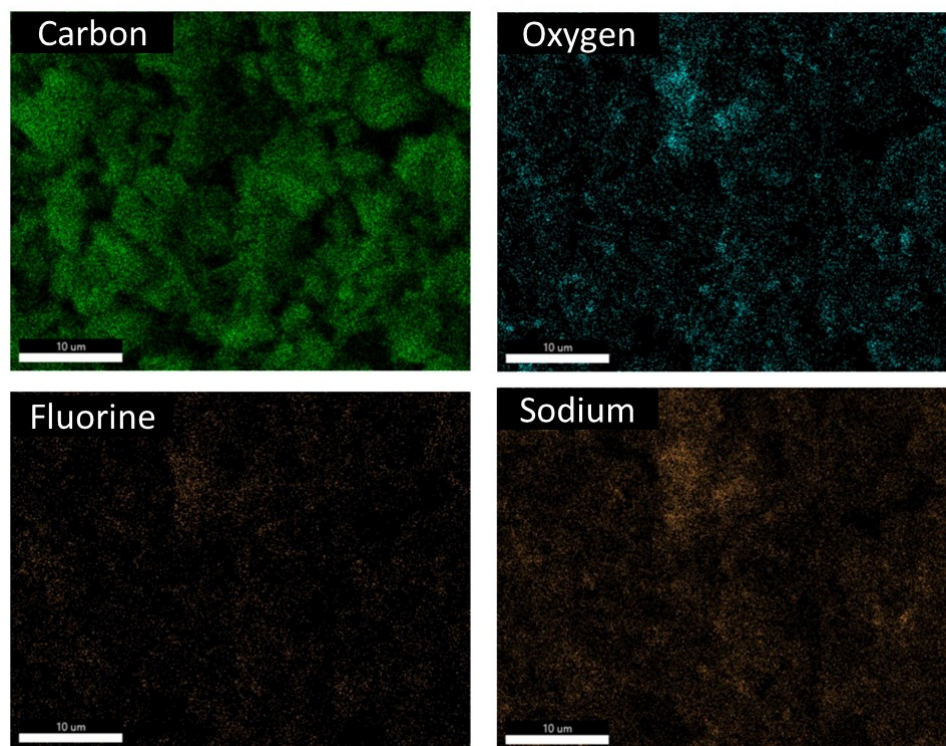


Figure S2: Element Maps for HKD Negative Electrode

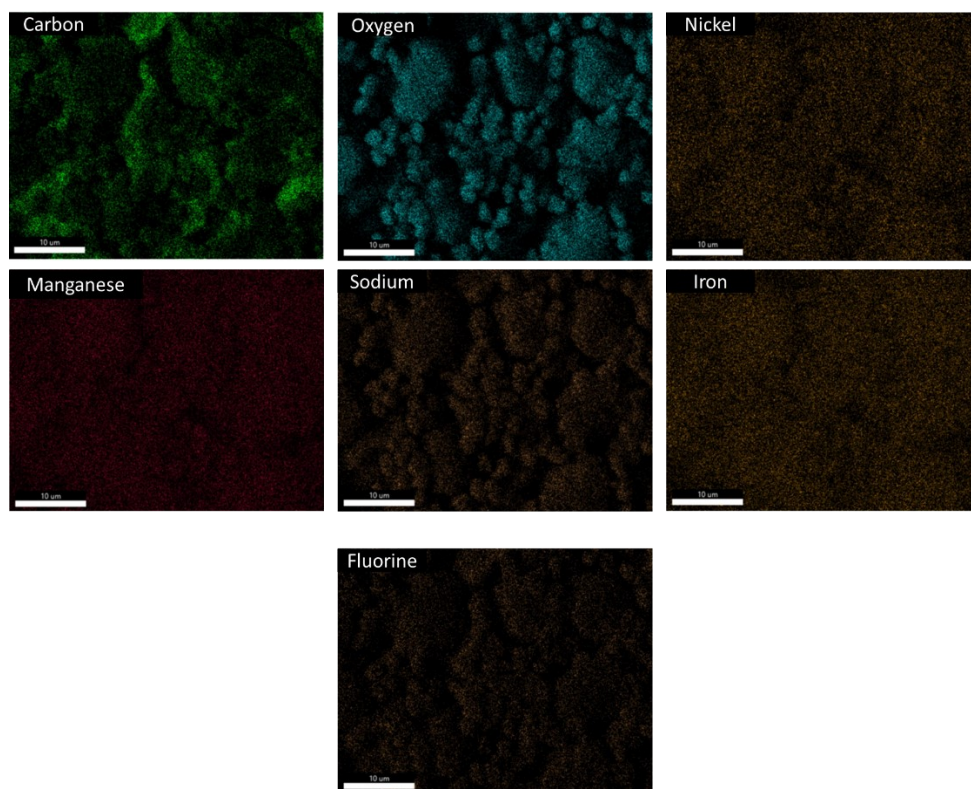


Figure S3: Element Maps for TCR Positive Electrode

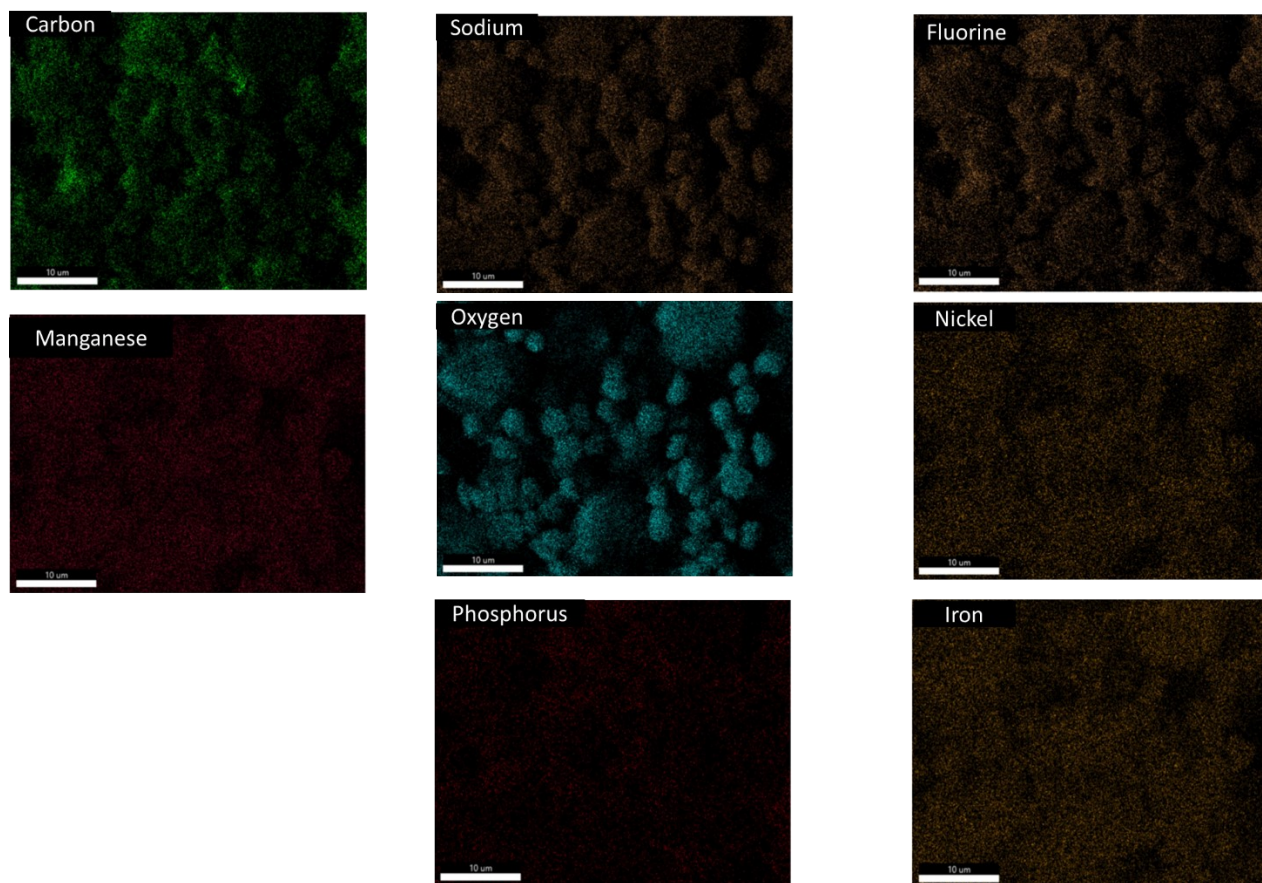


Figure S4: Element Maps for HKD Positive Electrode

XPS Data:

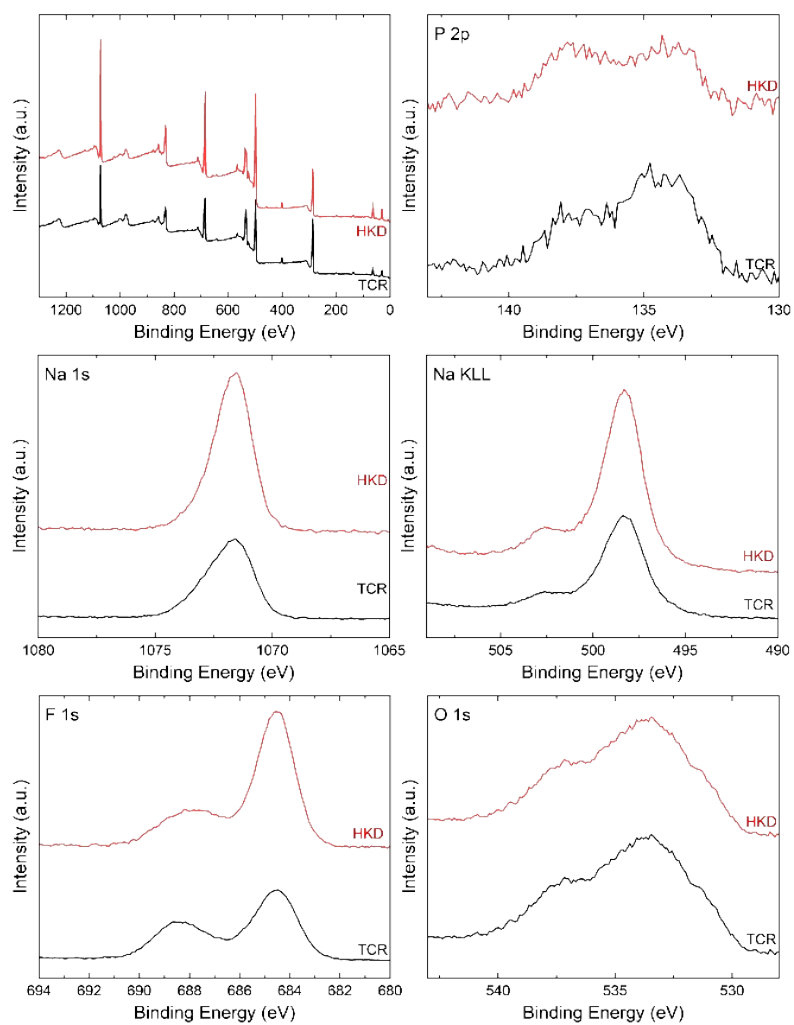


Figure S5: XPS scans of PEs of the HKD and TCR cells.

