

Supporting Information

A spinel (FeNiCrMnMgAl)₃O₄ high entropy oxide as a cycling stable anode material for Li-ion batteries

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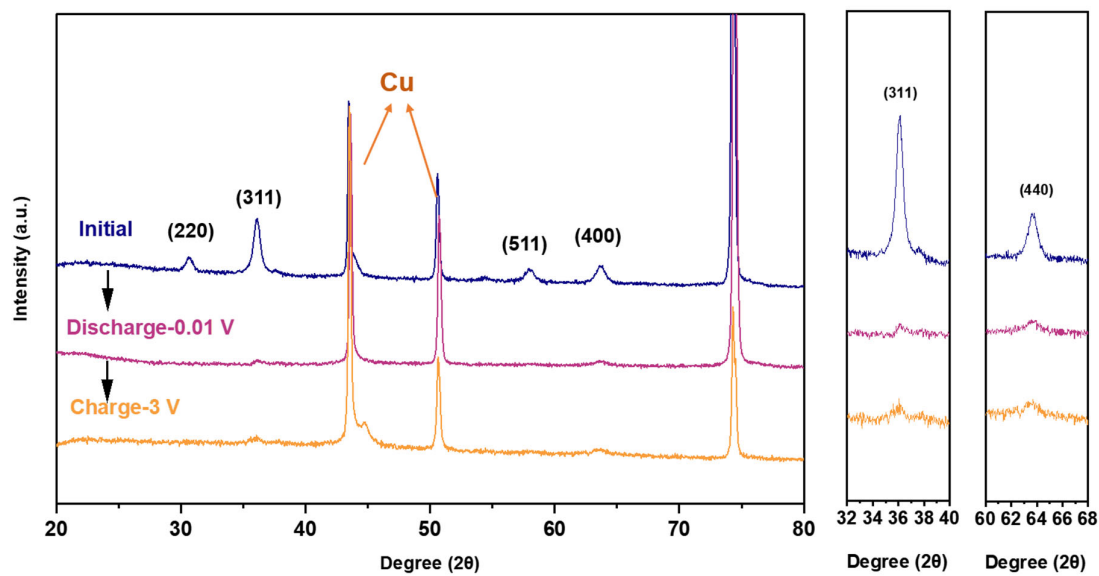


Figure. S1 Evidence of spinel phase maintenance - Ex-situ XRD of $(\text{FeNiCrMnMgAl})_3\text{O}_4$.

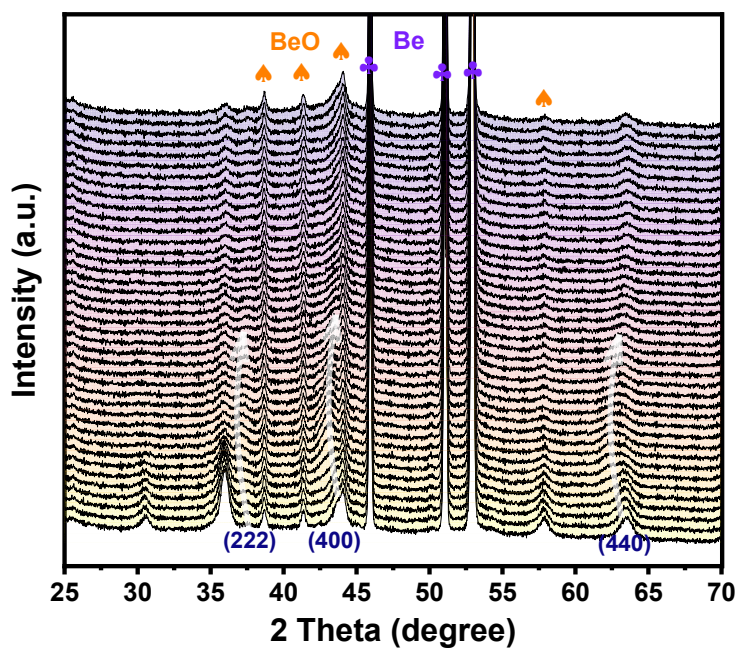


Figure. S2 In-situ XRD of 6-SHEO anode recorded along the initial lithiation-delithiation and second delithiation process (stacking diagram version).

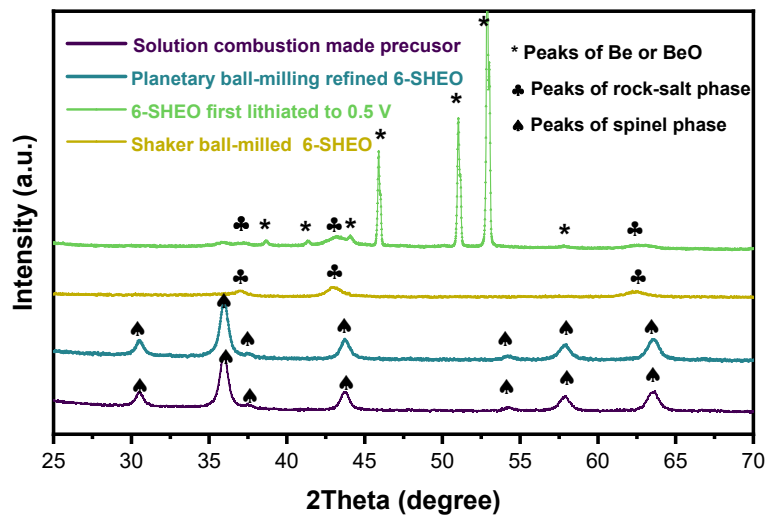


Figure. S3 XRD information of solution combustion made $(\text{FeNiCrMnMgAl})_3\text{O}_4$ precursor, planetary ball-milled refined 6-SHEO, 6-SHEO first lithiated to 0.5 V and shaker ball-milled 6-SHEO.