

Supplementary Information:

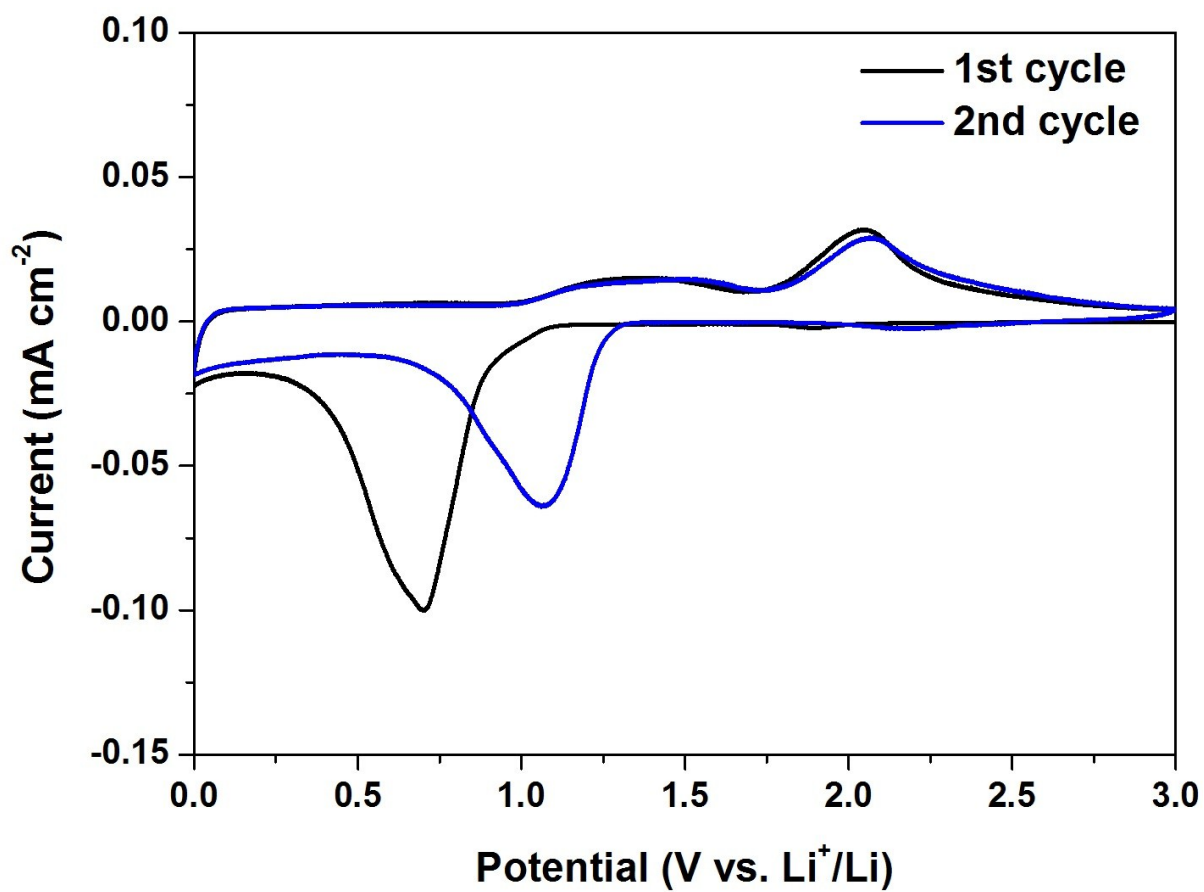
Mechanochemically induced transformation of CoO(OH) into Co₃O₄ nanoparticles and their highly reversible Li storage characteristics

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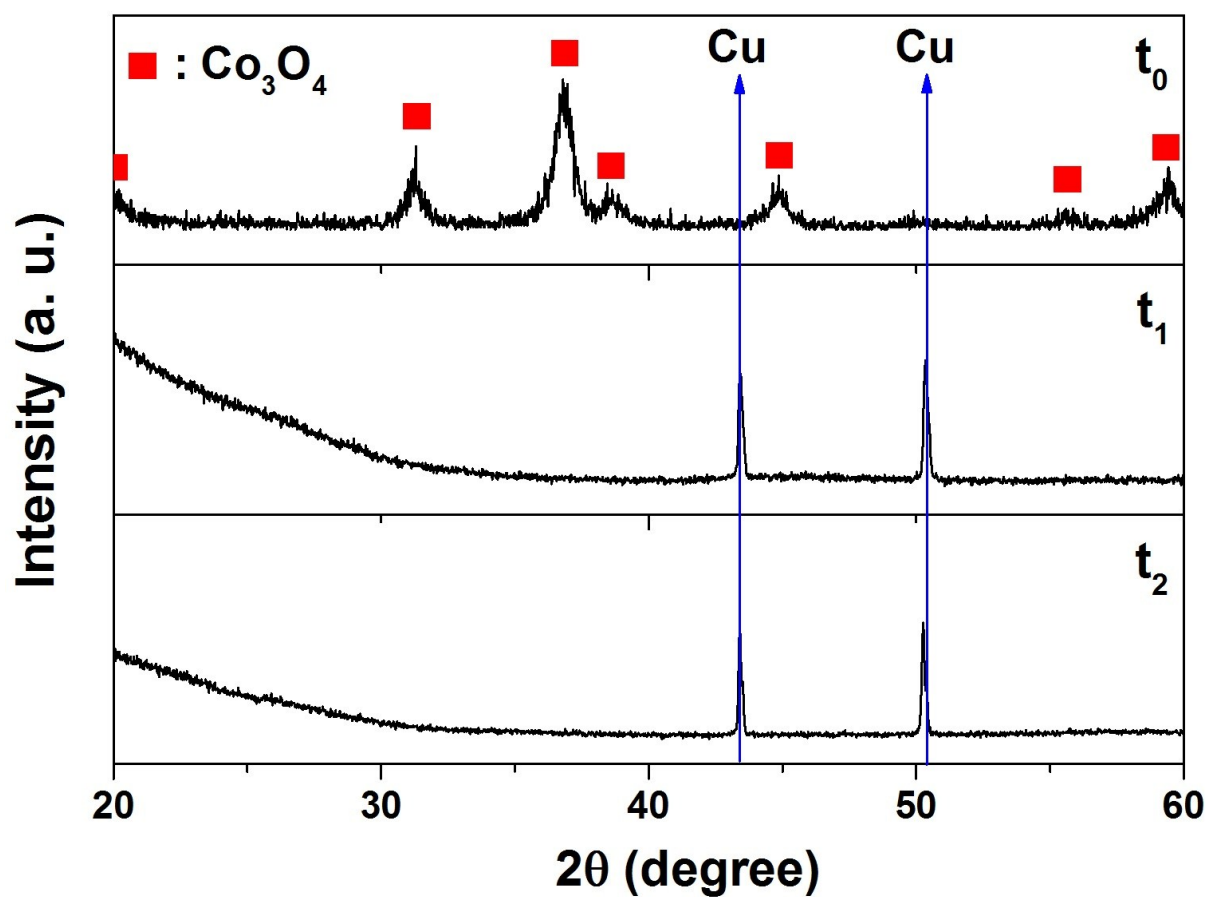
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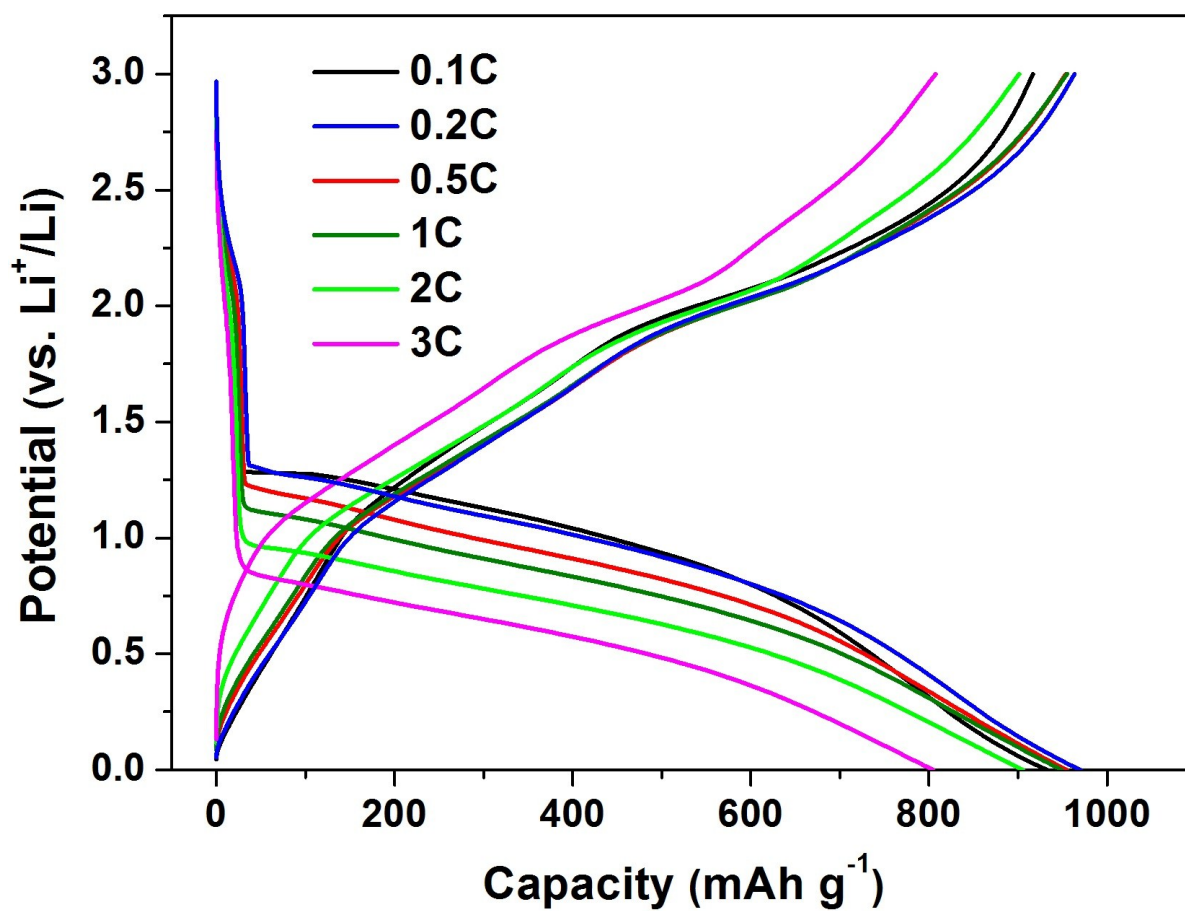
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Supporting Figure S1. CV results for the first and second cycles of the synthesized Co_3O_4 nanoparticles electrode.



Supporting Figure S2. Ex situ XRD results for the Co_3O_4 nanoparticles electrode at the selected potentials indicated in Figure 4a during the first cycle.



Supporting Figure S3. Voltage profiles of Co₃O₄ nanoparticles electrode at various current rate (0.1C, 0.2C, 0.5C, 1C, 2C, 3C, and C is defined as full use of the limited charging capacity, 900 mA h g⁻¹, in 1 h).