

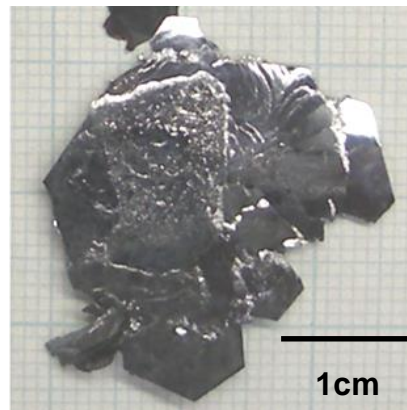
NEW

LiCoO₂

Single Crystal of Cathode Material for Rechargeable Battery

Features

- ✓ Excellent Crystallinity
- ✓ Large Foil (flux growth)
- ✓ Oriented Bulk (FZ growth)



LiCoO₂ single crystal

Applications



Tablets and Smartphones



Electric Vehicles



Specification

LiCoO ₂		Size	Surface	Stock
Foil		Diameter ≥10mm Thickness ≤50μm	(001) Oriented as grown	yes
Bulk		Rectangular 2 ~ 5 mm	To be discussed	custom made

OXIDE**Oxide Corporation**

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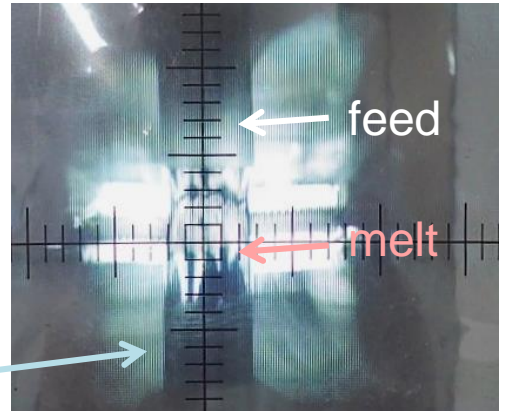
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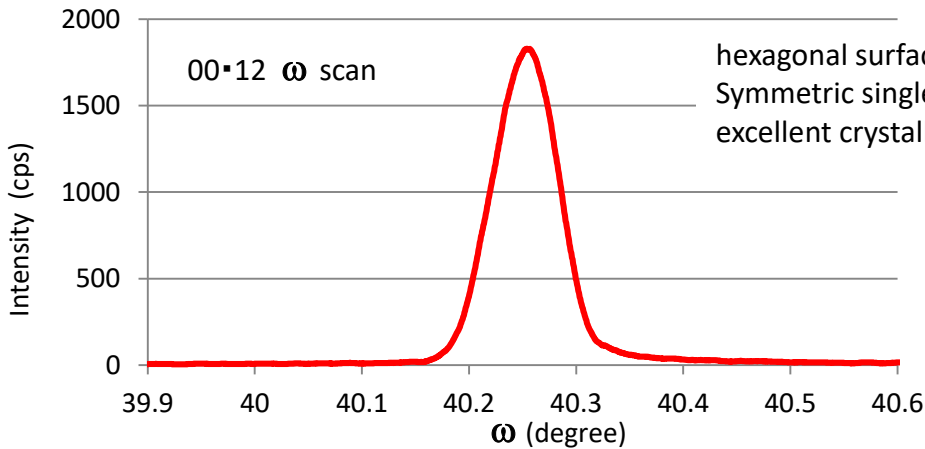
LCO bulky mono-crystal grown by the FZ method



grown single crystal

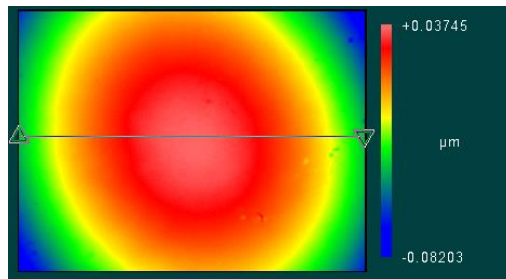
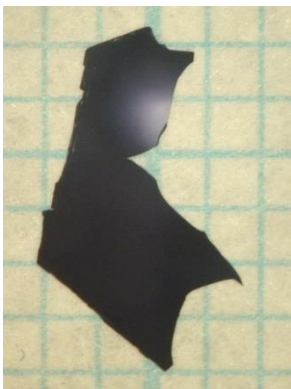


X-ray rocking curve of flux grown LCO

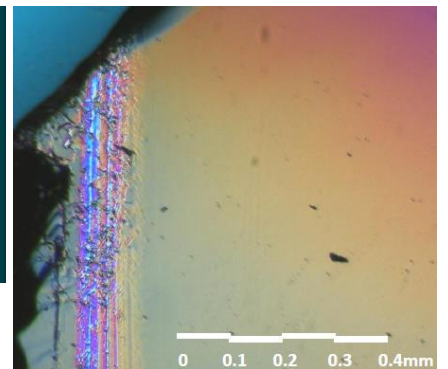


hexagonal surface is identified (001) plane
Symmetric single diffraction curve shows excellent crystalline quality.

Surface micro-topograph of flux grown LCO



Macroscopic diffract meter Image
Area: 190 μ m x 140 μ m,
PV: 119nm, Ra: 20nm



differential interference
contrast microscope (DIC)

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