

Supporting information

Facet dependent electrochemical performance and electronic structure of LiCoO₂ polyhedral particles revealed by microscopic resonant X-ray photoelectron spectroscopy

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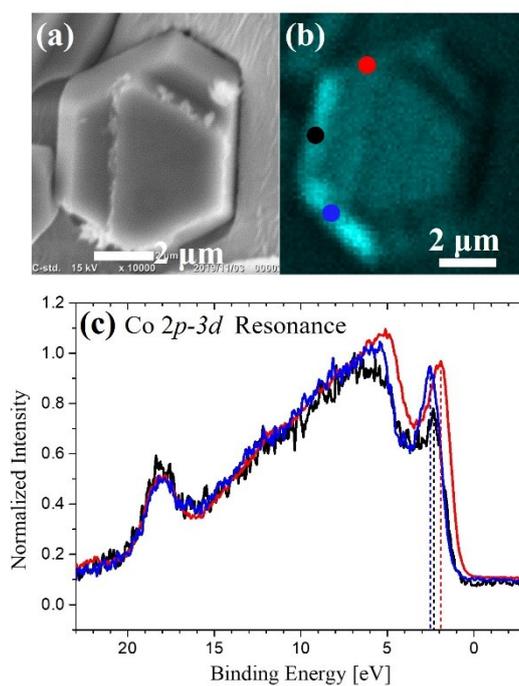


Fig. S1 (a) SEM image and (b) O 1s photoelectron intensity mapping image of LiCoO₂ particle. (c) Facet-dependent RXPS of LiCoO₂ particle with an incident photon energy of 780.60 eV.

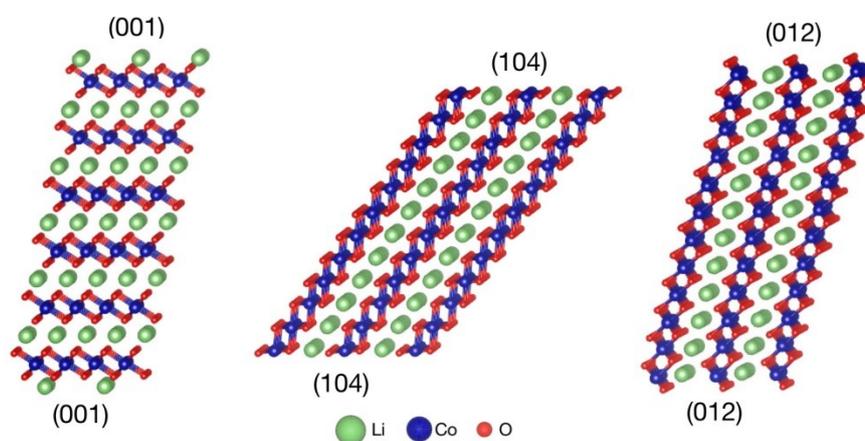


Fig. S2 Slab models (shown in the extended unit cells) for simulating the (001), (104), and (012) surfaces. (001) and (012) are polar surfaces, while (104) is nonpolar surface. Adapted with permission from ref 1. Copyright 2019 American Chemical Society.

Reference

1. L. Hong, L. Hu, J. W. Freeland, J. Cabana, S. Ögüt and R. F. Klie, *J. Phys. Chem. C*, 2019, **123**, 8851-8858.