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Supporting Information

Ru-decorated knitted Co₃O₄ nanowires as robust carbon/binder-free

catalytic cathode for lithium-oxygen batteries

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Fig. S1 High-magnification TEM of Co₃O₄/Ru.



Fig. S2 SEM image of Co₃O₄/Pd.

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Fig. S3 XRD patterns of Co₃O₄/Ru electrode after charge.



Fig. S4 SEM image of the Co_3O_4/Ru cathode after repeated cycling with a limited capacity of 500 mAh g⁻¹.



Fig. S5 XPS of the discharged electrode after repeated cycling with a limited capacity of 500 mAh

 $g^{-1}.$