

Supplementary Information

Oxygen vacancy enriched CeO_x supported CuNC aerogel for oxygen
evolution reaction in alkaline media

Supplementary Figures

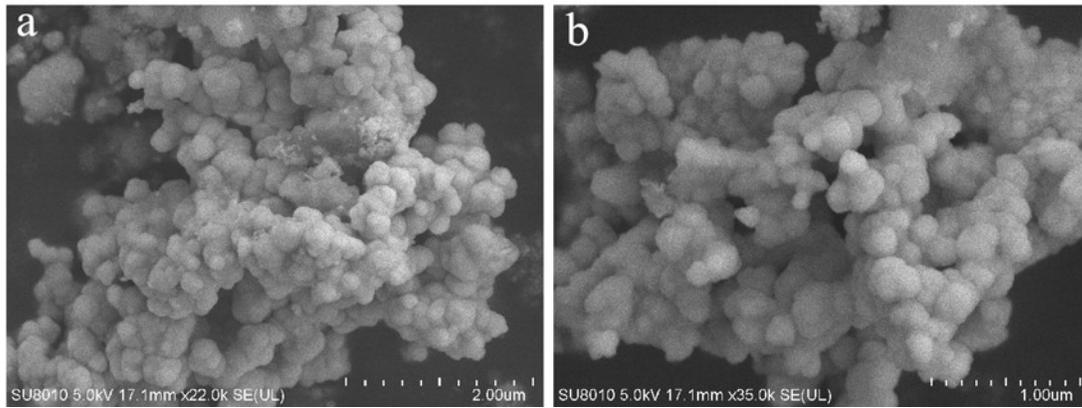


Figure S1. (a, b) Typical SEM images of CuNC-aerogel.

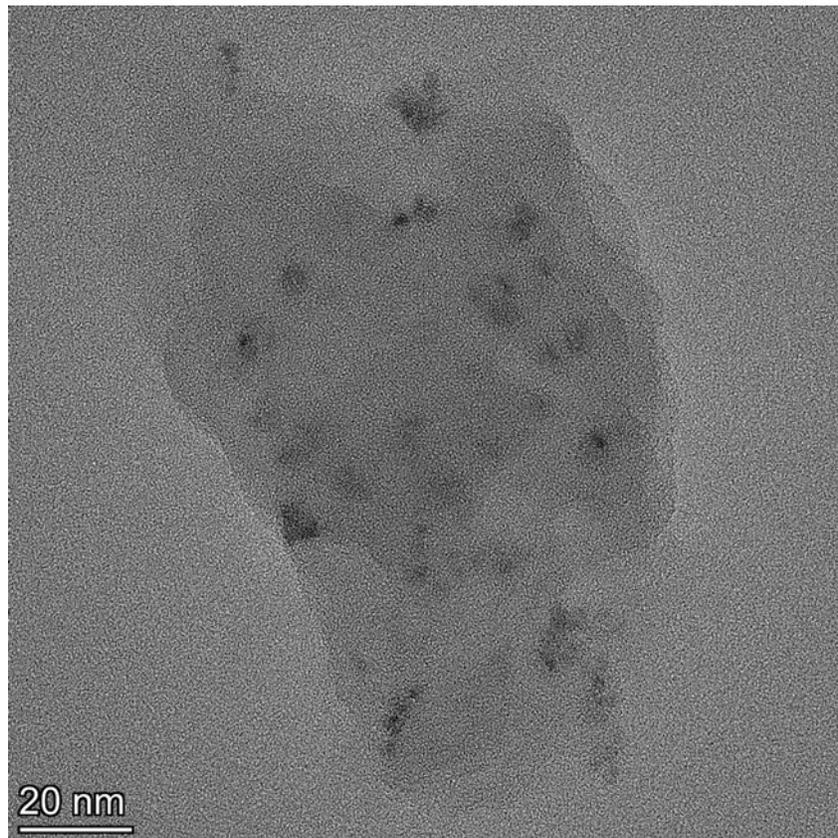


Figure S2. Typical TEM image of CuNC-aerogel.

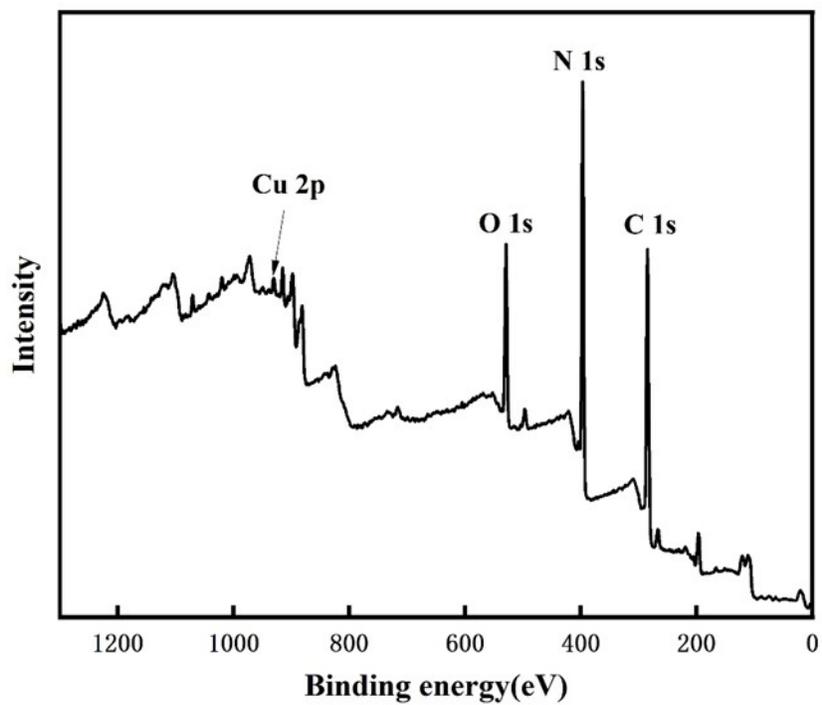


Figure S3. The XPS survey-scan spectrum of CuNC-Aerogel.

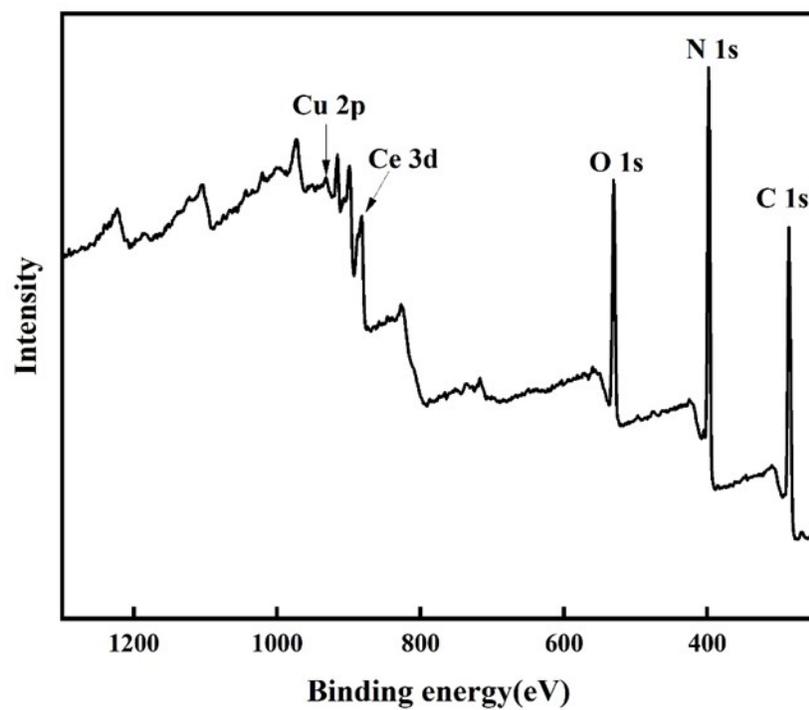


Figure S4. The XPS survey-scan spectrum of CuNC@CeO_x-Aerogel.

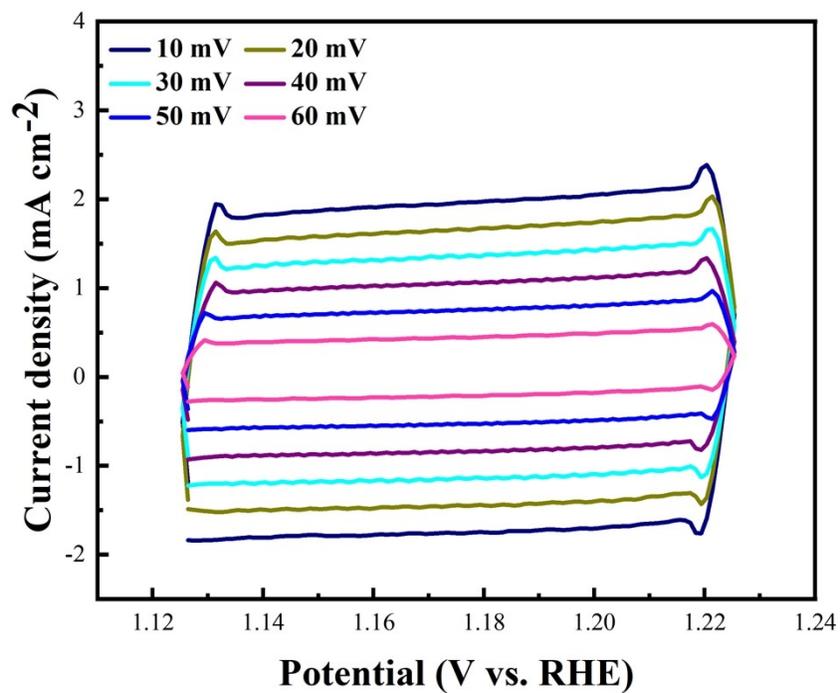


Figure S5. Cyclic voltammograms of the CuNC aerogel in the range from 1.12 to 1.23 V (vs. RHE) at different scan rates.

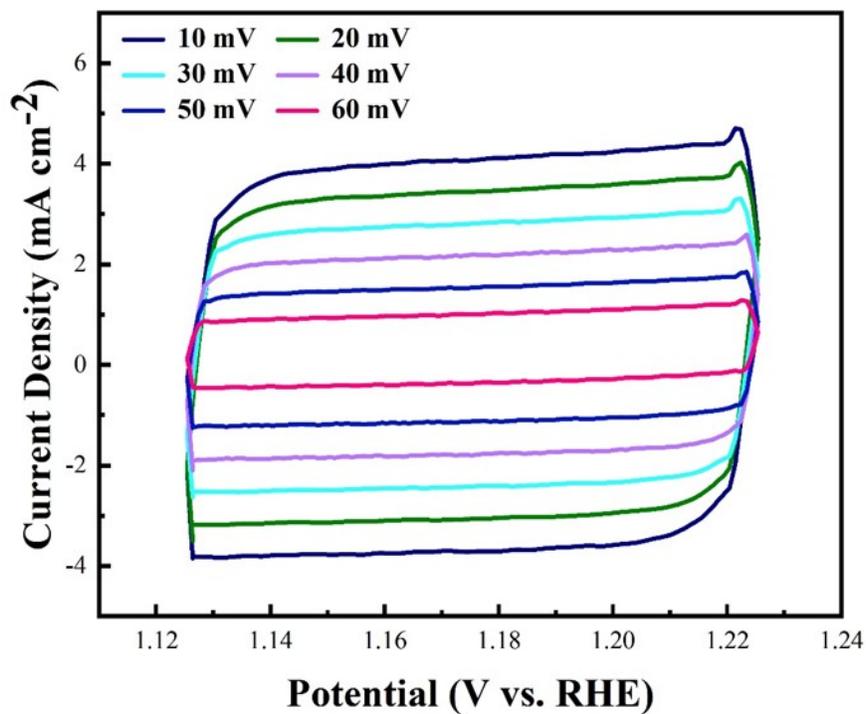


Figure S6. Cyclic voltammograms of the CuNC@CeO_x aerogel in the potential range from 1.12 to 1.23 V (vs. RHE) at different scan rates.

Supplementary Tables

Table S1. The OER activity comparison between the CuNC@CeO_x aerogel and recently reported top-level transition-metal-aerogel-based electrocatalysts in 1.0 M KOH.

Catalyst	η_{10} (mV)	Tafel slope (mV·dec ⁻¹)	Reference
CuNC@CeO _x aerogel	326.4	141.50	This work
CuNC aerogel	410	250.13	This work
Cu@CuO-C	340	156	1
Cu@Cu ₂ O-C	390	165	1
CoNC@NCXS	360	140	2
Co-CeO ₂ /C aerogel	380	99	3
Mo ₄ S ₁₆ @GCA	370	126.78	4
Co-N-C-1050	242	286.7	5
Co ₉ S ₈ @CoO	333	72	6
Vo-Cubic-Co ₃ O ₄	375	58.2	7

References

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