Electronic Supplementary Information

Two-Dimensional Ru@MXene Catalyst for Highly Selective Ambient Electrocatalytic Nitrogen Reduction

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Fig. S1 (a) UV-vis spectra for NH_4^+ standard solutions with different concentrations.



(b) Standard curve for NH_4^+ qualification.

Fig. S2 (a) UV-vis spectra for N_2H_4 standard solutions with different concentrations.



(b) Standard curve for N_2H_4 qualification.

Fig. S3 UV absorbance of hydrazine in electrolyte after different potential reaction.



Fig. S4 UV absorbance of electrolyte after different potential reactions.



Fig. S5 i-t curve of five times Test of Ru@MXene (-0.4V, 2h, N₂).



Fig. S6 UV absorbance curve of electrolyte after cycle test.



Fig. S7 Ru@MXene long-term i-t test in N_2 and Ar environment (-0.4 V).