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$_2$H$_4$ standard solutions with different concentrations. 
(b) Standard curve for N$_2$H$_4$ 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).