

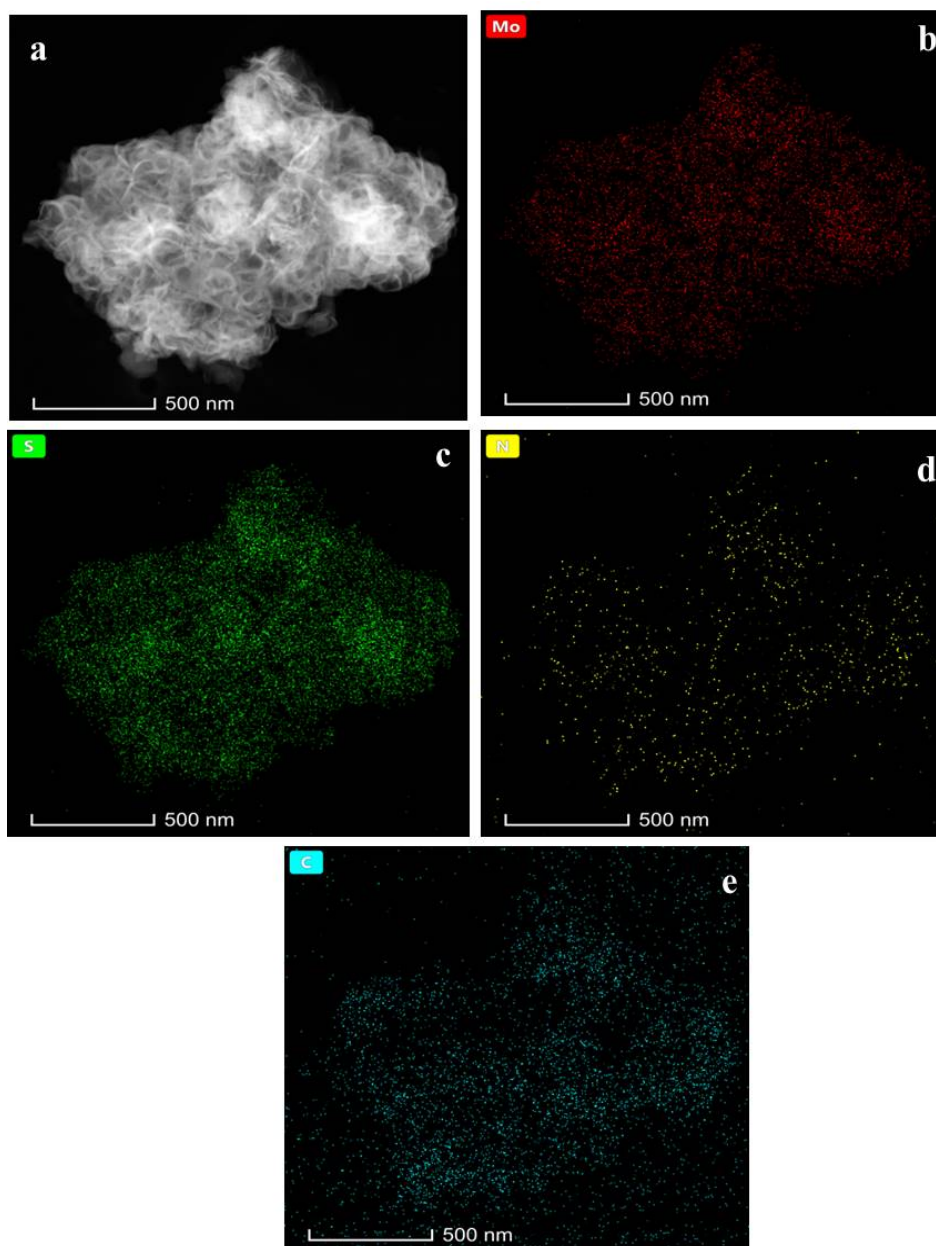
### Supplementary Information

#### CTAB assisted PANI-MoS<sub>2</sub> nanosheets flower morphology for highly sensitive electrochemical detection of hydrazine

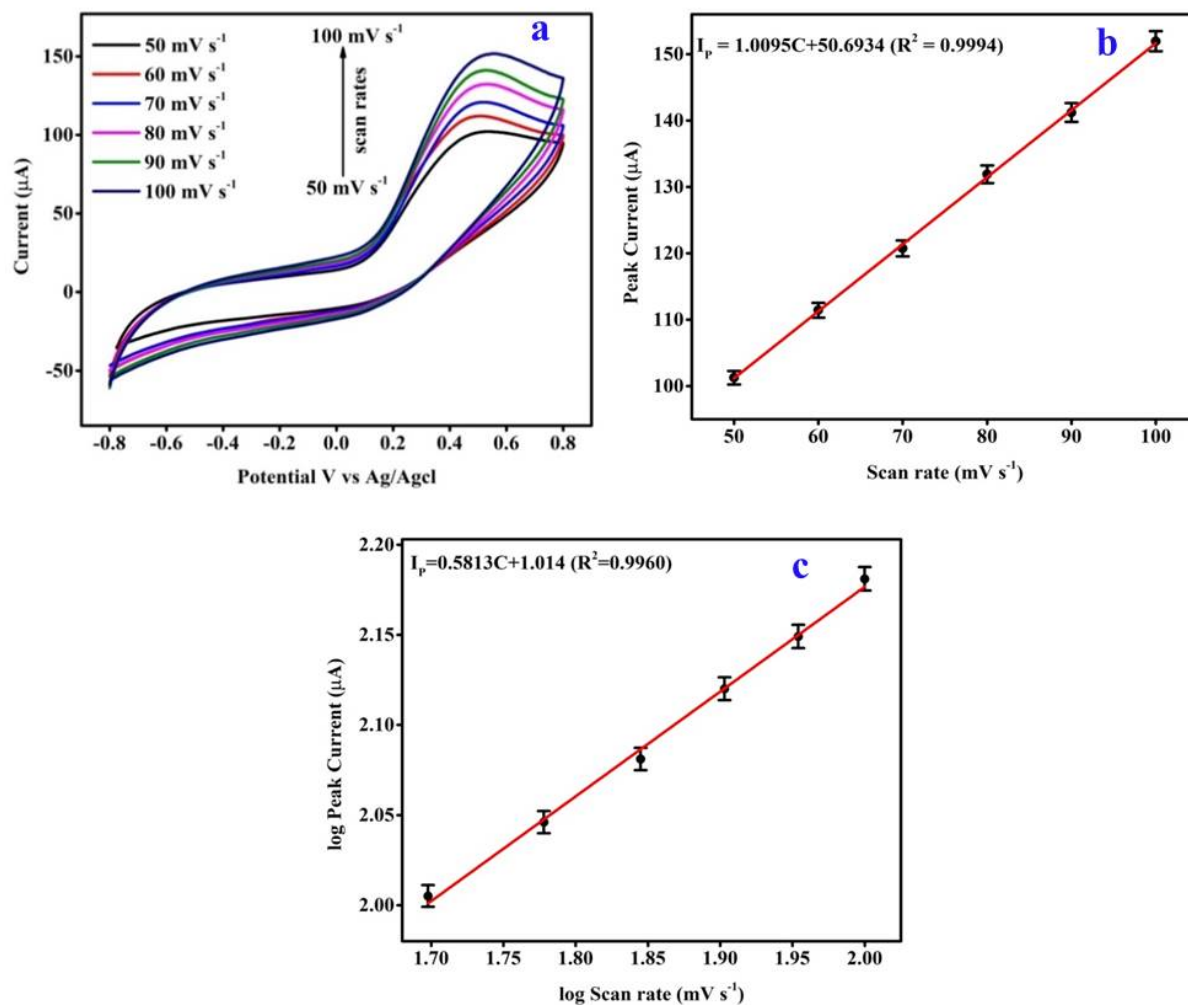
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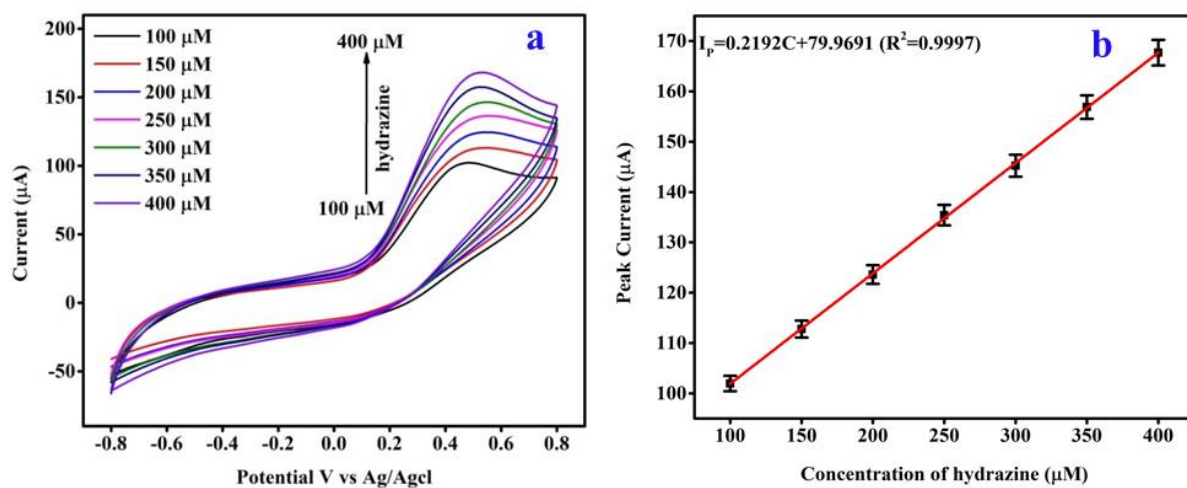
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**Figure S1.** Shows the HR-STEM and elemental mapping images of (a) CPANI-MoS<sub>2</sub> composite (b-e) elemental mapping of molybdenum (Mo), sulphur (S), nitrogen (N), and carbon (C).



**Figure S2.** (a) The CV curve of CPANI-MoS<sub>2</sub> GCE was measured at various scan rate (b) calibration plot of the peak current of hydrazine against scan rate and (c) log peak current function of log scan rate.



**Figure S3.** (a) illustrates the CV curve of CPANI-MoS<sub>2</sub> GCE in the presence of a different concentration of hydrazine with an applied scan rate at 50 mV s<sup>-1</sup> and (b) a calibration plot of peak current against a different concentration of hydrazine analyte.