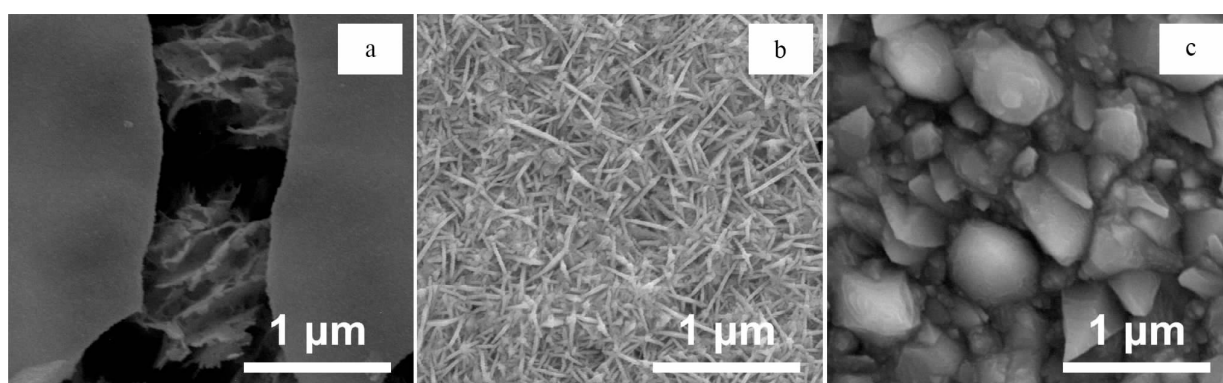


## Supplementary Information

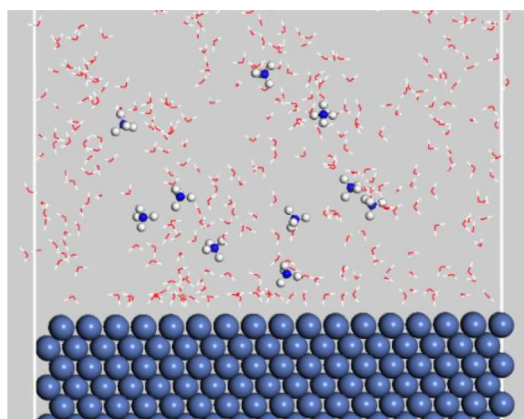
### Mechanism and Application of Nickel Nano-Cone by Electrodeposition on a Flexible Substrate

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**Figure S1** SEM images of the electroplated nickel nano-cone in the solutions without  $\text{NH}_4\text{Cl}$  and with different concentrations of  $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$ . (a)  $0.42 \text{ mol} \cdot \text{L}^{-1}$ , (b)  $0.84 \text{ mol} \cdot \text{L}^{-1}$ , (c)  $1.68 \text{ mol} \cdot \text{L}^{-1}$ .



**Figure S2** Molecule dynamic simulation of  $\text{NH}_4^+$  on nickel in the initial stage.