

Supplementary information

Fig. S1. The SEM image of the pure diatomite.

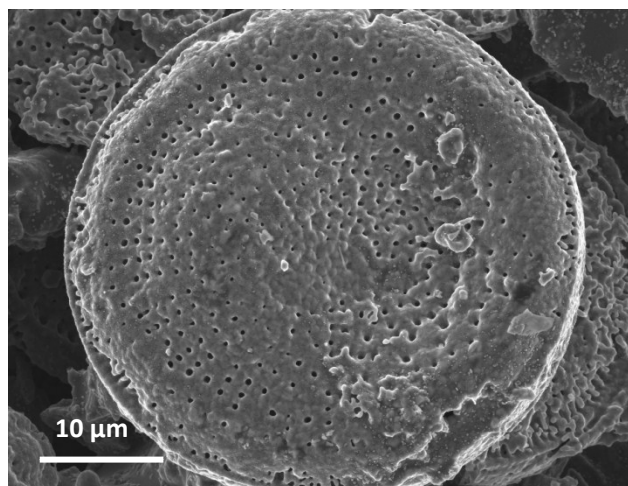


Fig. S2. The high magnification of the SEM images of the Ni-Co LDH @Diatomite. **(a)** Ni₁Co₂ LDH@Diatomite, **(b)** Ni₁Co₁ LDH@Diatomite, **(c)** Ni₂Co₁ LDH@Diatomite, **(d)** Ni₃Co₁ LDH@Diatomite.

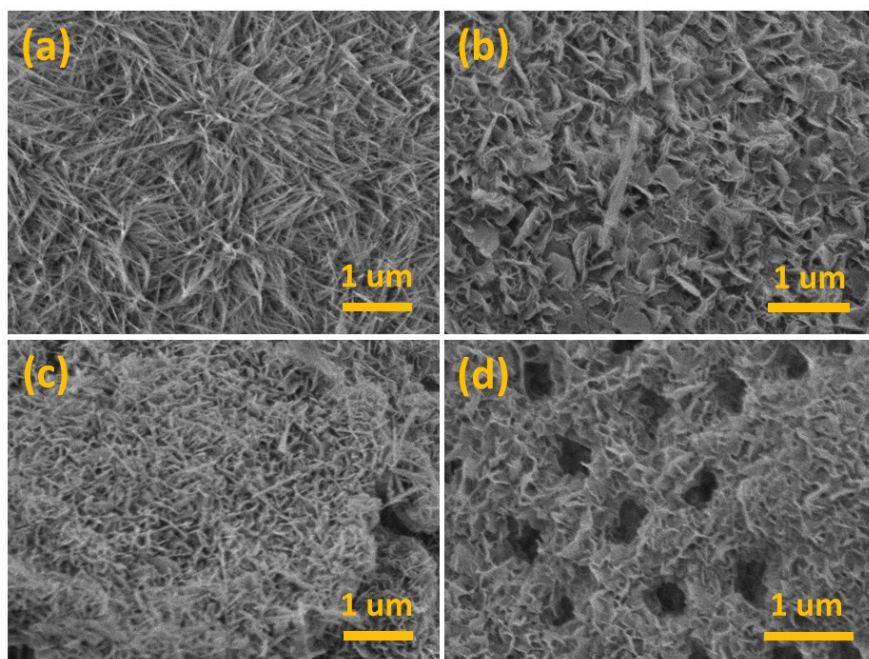


Fig. S3. Color changes of the samples with the increase of Ni ionic concentration.

