Electronic Supplementary Information

**Ni**$^{3+}$ doped cobalt-nickel layered double hydroxides as high-performance electrode material for supercapacitors

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**Figure S1** Laser-assisted assembly for Co-Ni-LDHs structure

**Figure S2** EDX spectrum and the table of corresponding elements calculation of Co$_{0.55}$Ni$_{0.45}$-LDHs

**Figure S3** XPS spectra of Co$_{0.55}$Ni$_{0.45}$-LDHs (a) survey, (b) O 1s 2p
Figure S4 The specific capacitance retention of Co$_{0.55}$Ni$_{0.45}$-LDHs.