

Nanostructured Ni based anode and cathode for alkaline water electrolyzers

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Supplementary Materials

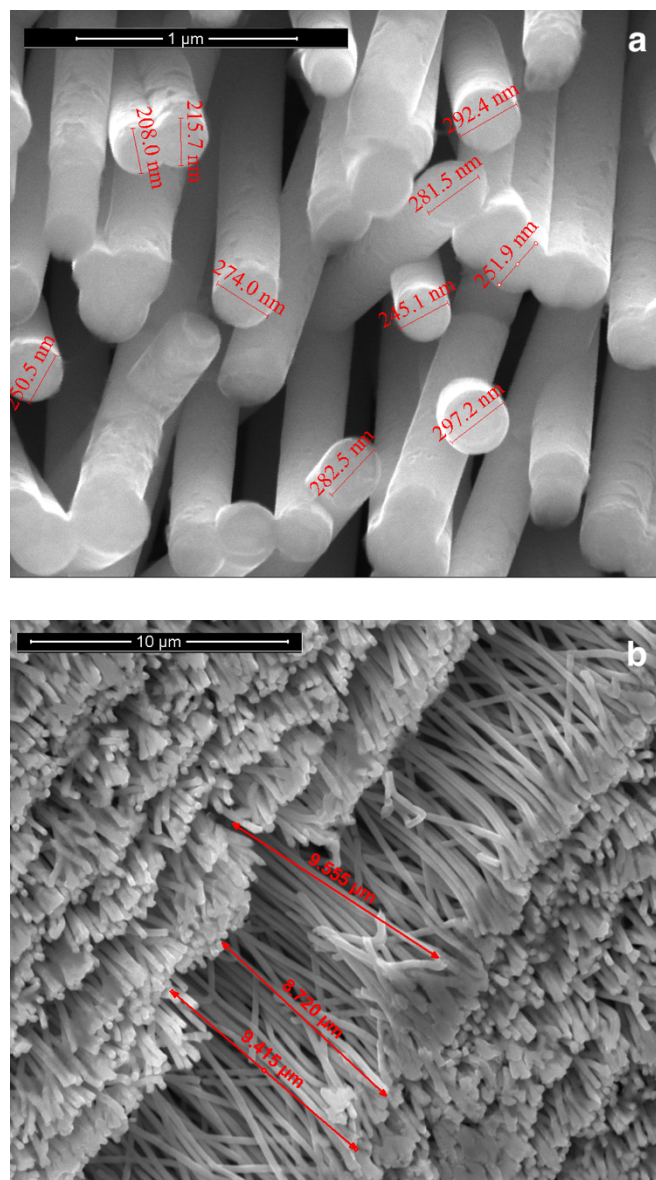


Figure S1. SEM images of as prepared nanowires.

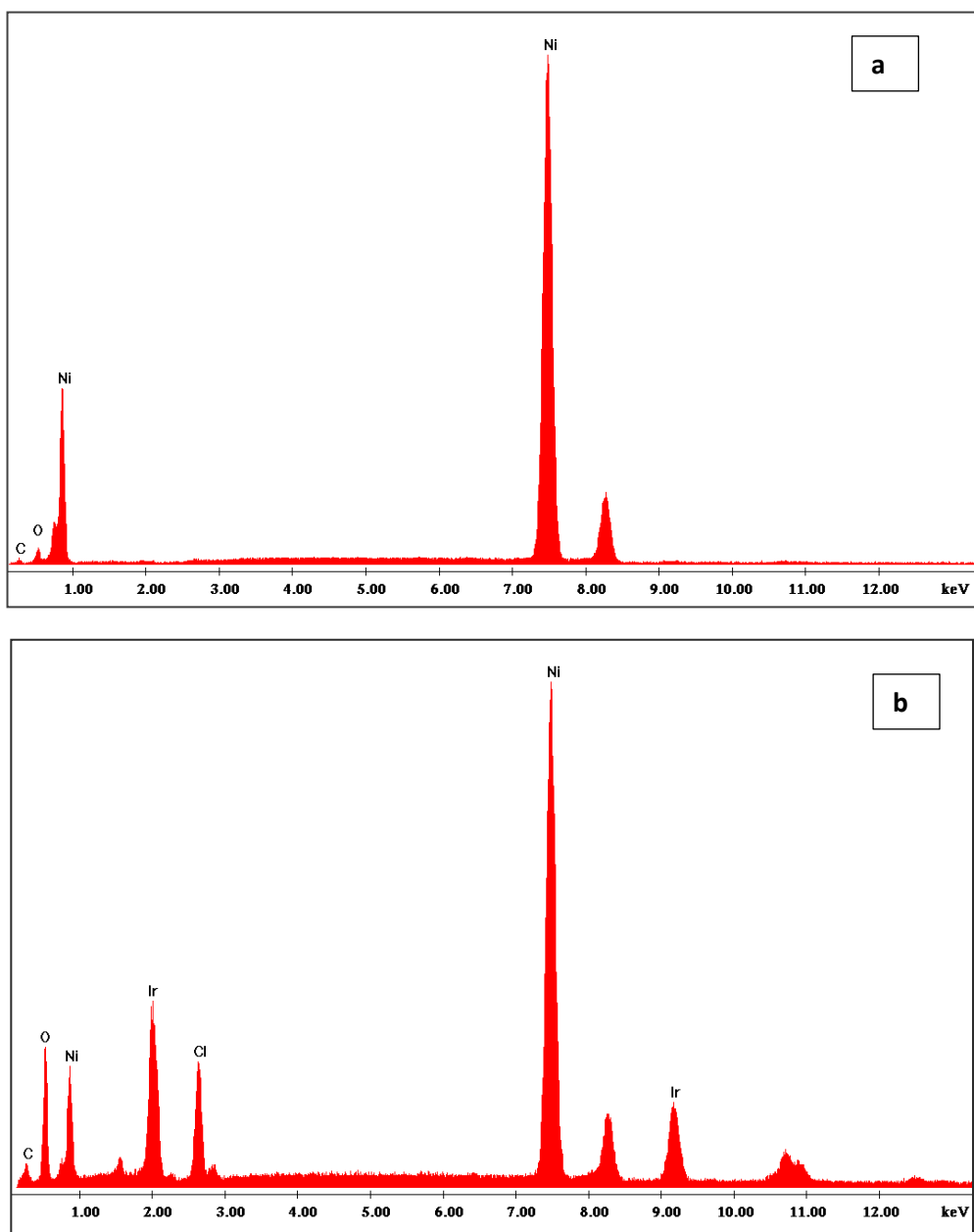


Figure S2. EDS spectra of Ni nanowires before (a) and after (b) functionalization of iridium oxide by pulsed electrodeposition.

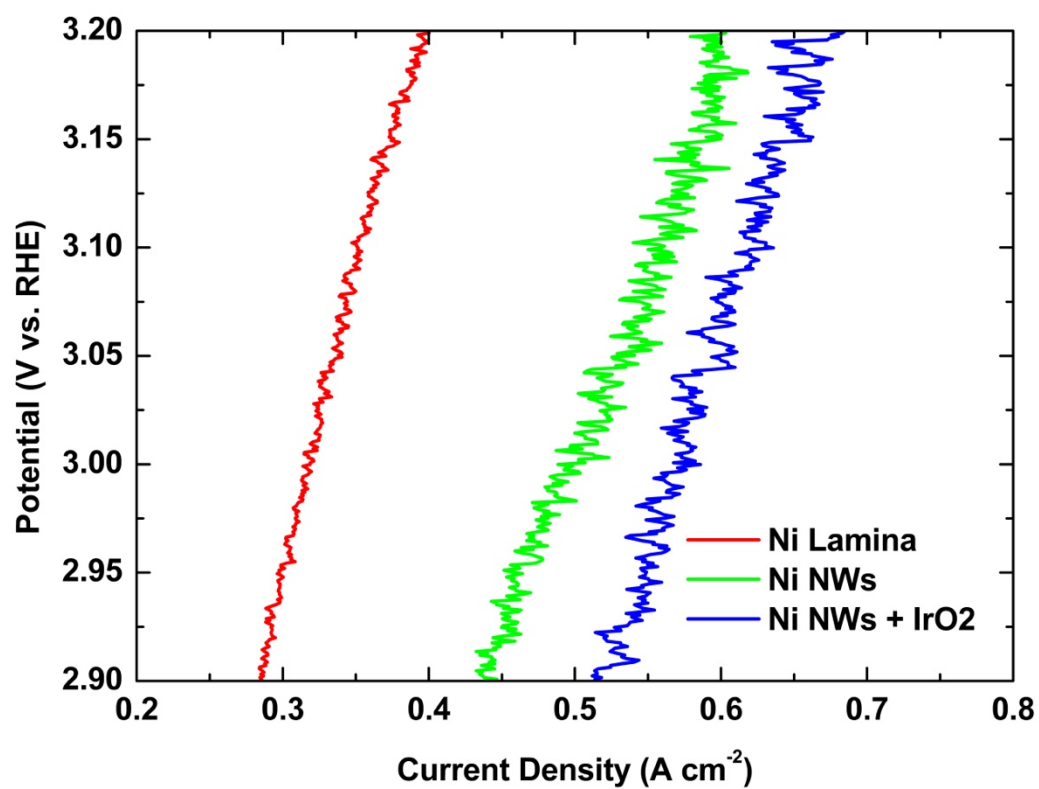


Figure S3. QSSP of Ni and Ni nanowires with e without iridium oxide. For comparison also the behavior of a sheet of Ni was reported.

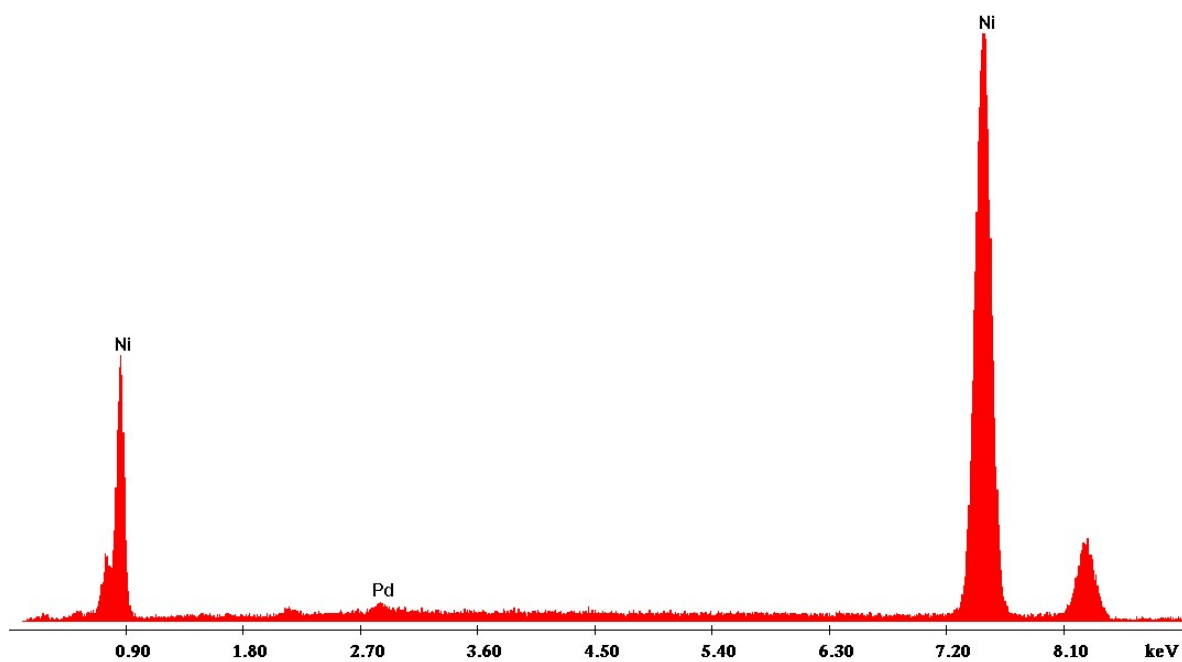


Figure S4. EDS spectrum of Ni-NWs covered with Pd nanoparticles obtained by metal displacement deposition.

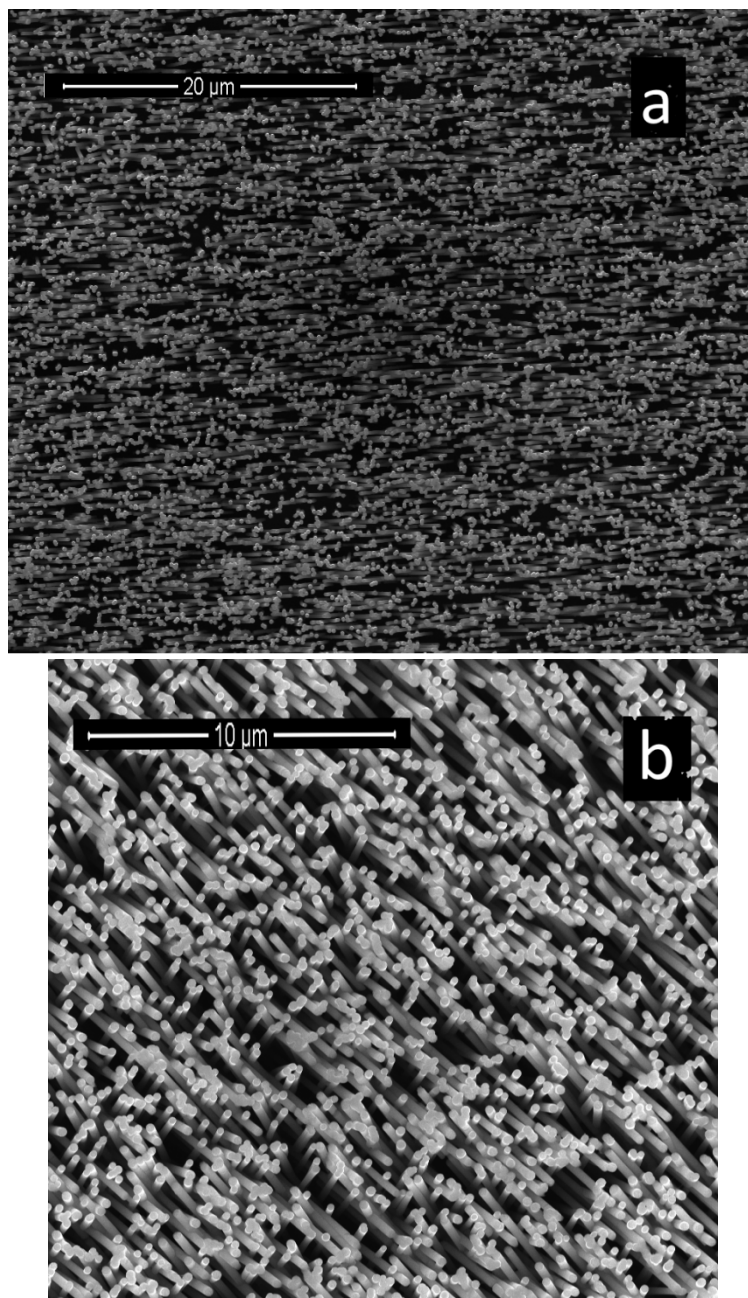


Figure S5. SEM images of Ni-Co alloy NWs obtained by electrodeposition with a composition of 95% Co and 5% Ni.

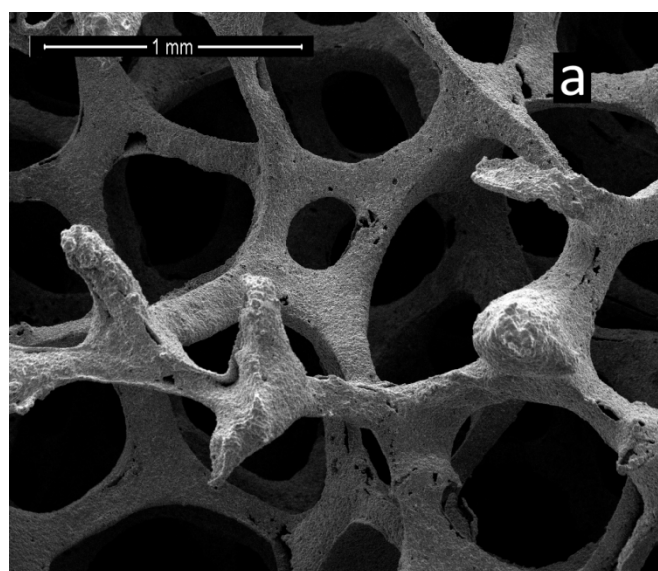
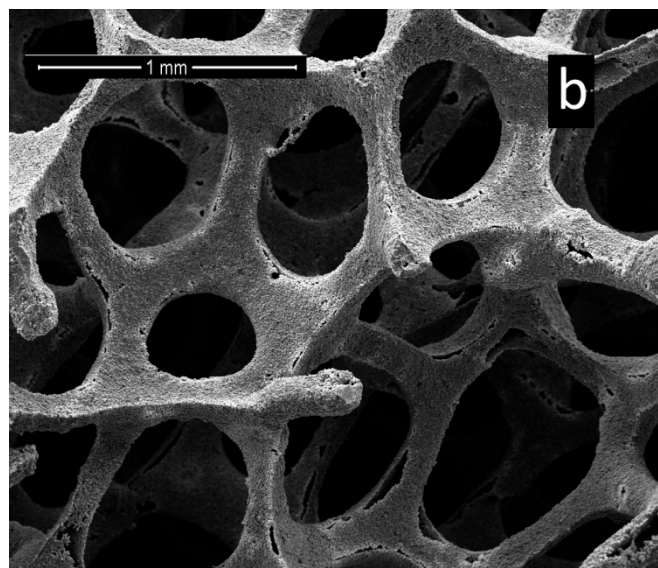


Figure S6. SEM images of Ni foam functionalized with a) Pd and b) Ni-Co.