

## Supplementary material

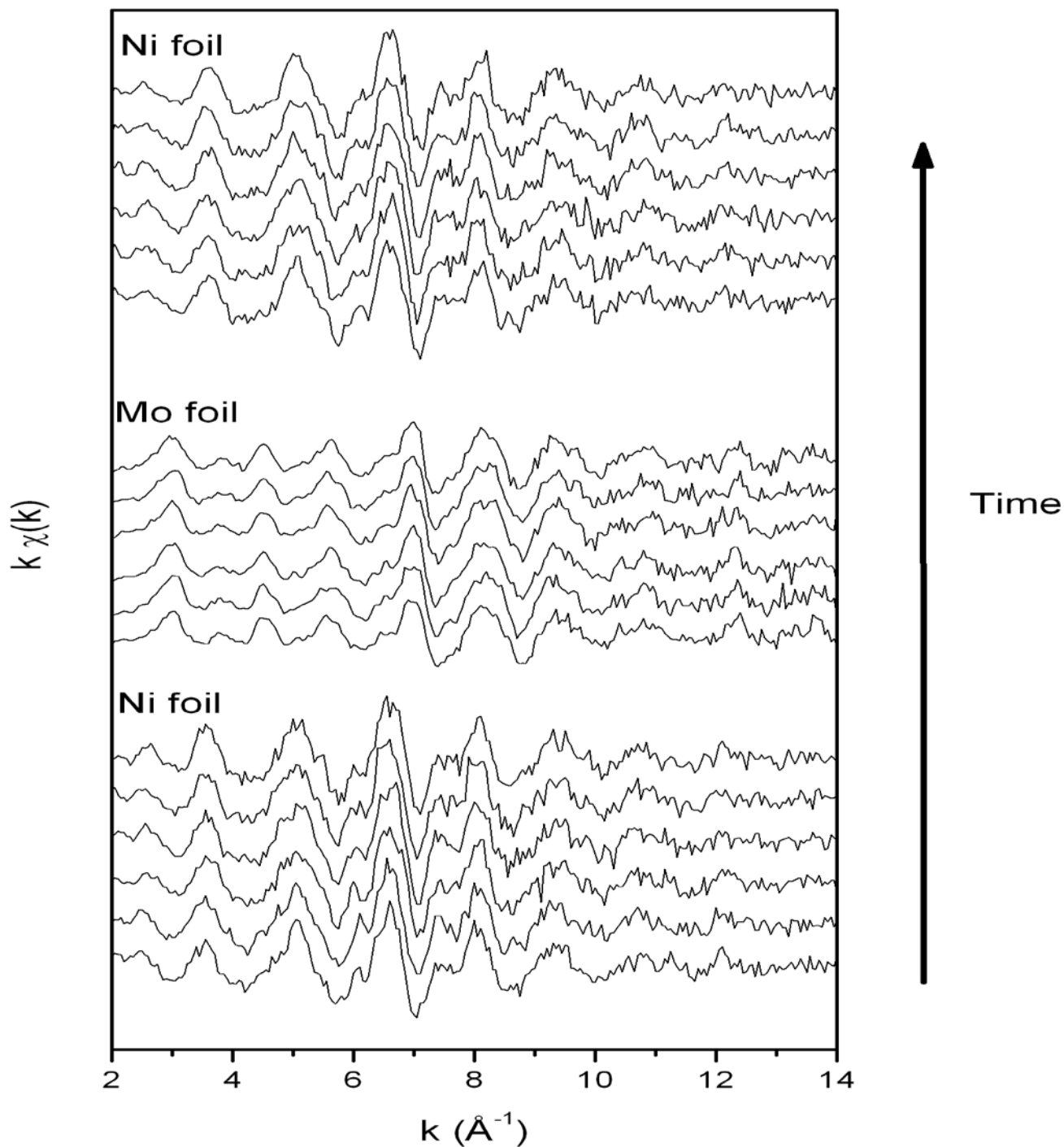


Figure 1. Ionization chamber gases are changed between  $\text{N}_2$  and Ar when switching between Ni and Mo K edge. Despite 60s are not enough to completely stabilize the gas content, individual EXAFS spectra (500ms each) measured at the Ni and Mo K edges are almost identical and can be summed to produce one EXAFS spectrum every 60s. Only few individual spectra are shown. These spectra have been measured on the metallic foils put between the second and the third ionization chambers. Foils are automatically changed as the monochromator is changed.