

Supplementary data

An example of fits for Si 2p and Al2p peaks used in this manuscript is shown in Figure 1 below, the sum of all components was used to calculate a Si:(Si+Al) value of 0.61.

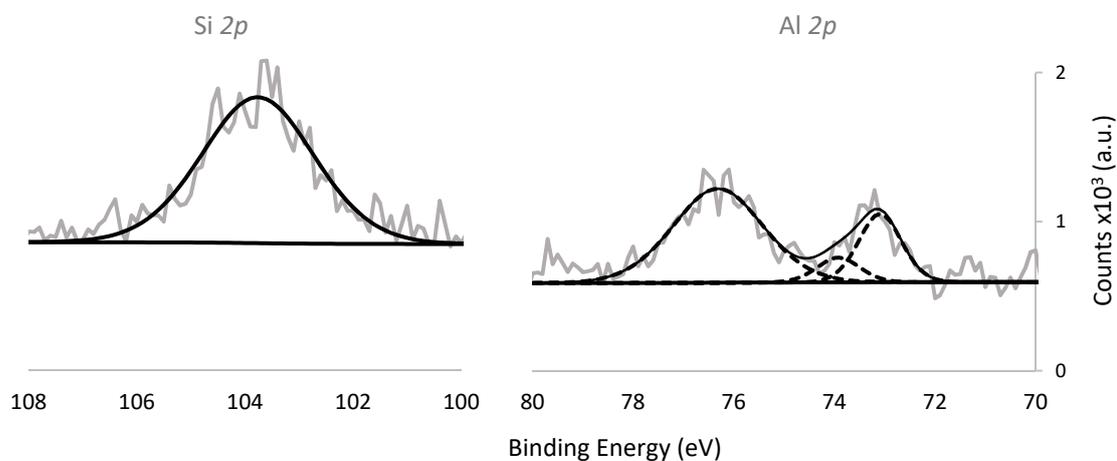


Figure 1: The fit and deconvolution of high-resolution Si 2p (left) and Al 2p (right) XPS spectra of 1% PTMS in aqueous solvent exposed to aluminium oxide for 5 seconds, obtained an Mg K α X-ray source.