

Supplemental page

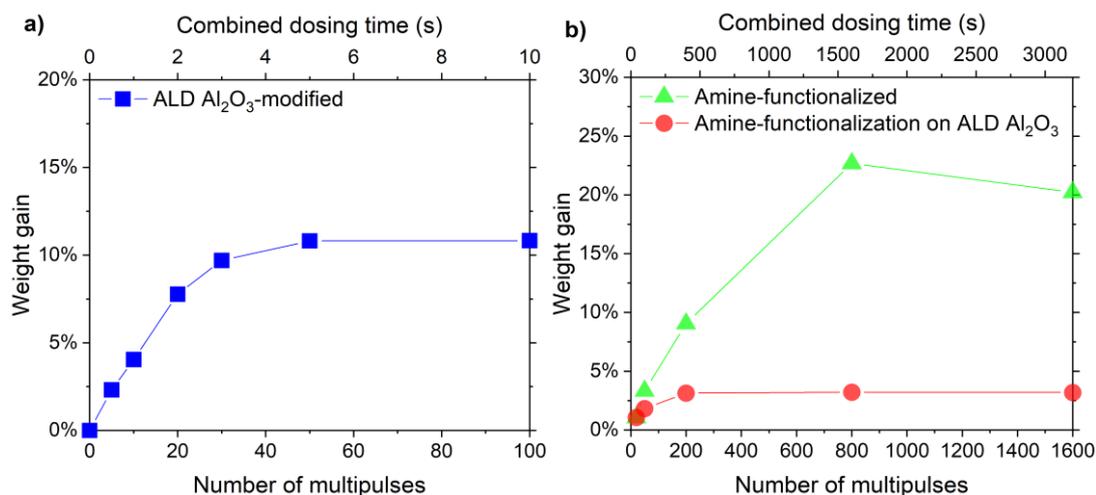


Figure 1: Saturation curves of (a) ALD Al₂O₃-modified carbon fiber cloth and of (b) amine functionalization introduced directly to carbon fiber cloth or after Al₂O₃-modification. Measured values are subjected to an experimental error of $\pm 0.5\%$.

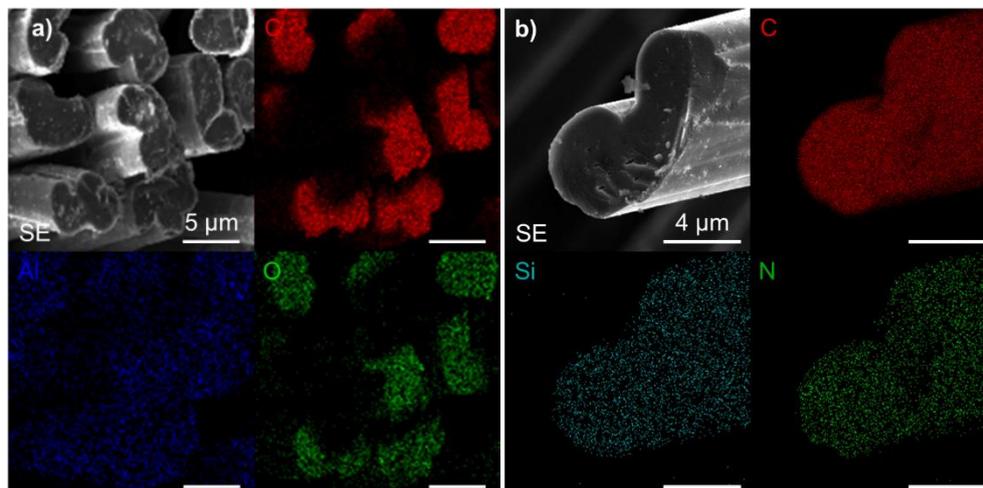


Figure 2: EDX-mapping of carbon fibers modified by (a) ALD Al₂O₃, (b) amine functionalities.

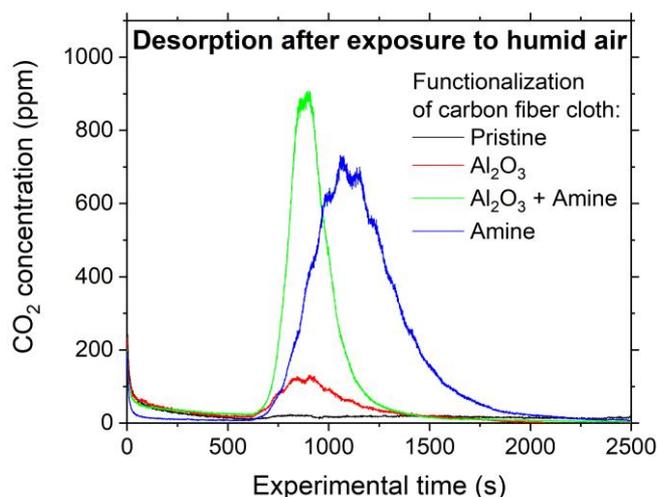


Figure 3: CO₂ desorption monitored by mass spectrometry of Al₂O₃ and amine-functionalized carbon fiber cloth after exposure of the samples to humidified synthetic air.