1.1. Methods M1

XPS: Measurements were conducted in hybrid mode using electrostatic and magnetic lenses. Take-off angle of 0° was used, resulting in a maximum sampling depth of approximately 8 nm. Each spectrum was collected over a 300 μm x 700 μm sample area (slot size). Atomic concentrations (At %) were calculated from survey spectra scanning over a binding-energy range of 1200 to 0 eV using a pass energy of 160 eV, energy resolution step size of 0.5 eV, dwell time of 100 ms and, averaged over three sweeps. A charge neutralizer was utilized and all spectra were charge referenced to the aliphatic carbon (C 1s) at 285 eV. Peak areas for C 1s were fitted using a Levenberg-Marquardt algorithm assuming a linear background, and full width half maximum (FWHM) were constrained below 1.4 eV.