

Reactive Landing of Peptide Ions on Self-Assembled Monolayer Surfaces: An Alternative Approach for Covalent Immobilization of Peptides on Surfaces

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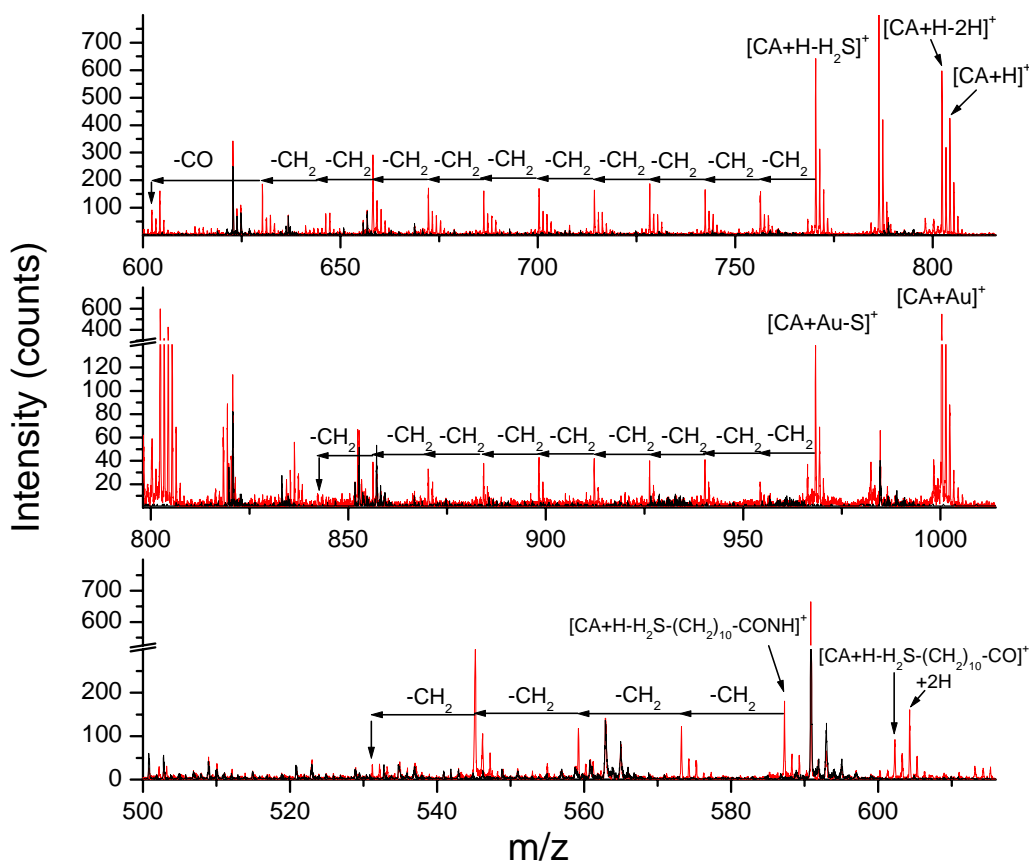


Figure S1. ToF-SIMS spectrum of the NHS-SAM surface following SL of 1.8×10^{13} doubly protonated c(-RGDfK-) molecules and subsequent rinsing of the surface in methanol (red) as shown in Figure 1b with detailed peak assignments and the unmodified NHS-SAM (black). Top panel shows the protonated doublet at m/z 804.4 and 802.4 of the covalent adduct (CA) and the related fragments; middle panel shows the CA cationized on gold and the related fragments; bottom panel shows lower-mass part of the spectrum that contains characteristic peaks corresponding to the loss of NHCO from the amide bond between c(-RGDfK-) and the SAM chain and loss of up to four $-CH_2$ moieties from the lysine side chain of c(-RGDfK-).