

Supporting information

X-Ray Photoelectron Spectroscopy Investigation of the Nitrogen Species in Photoactive Perfluorophenylazide-Modified Surfaces

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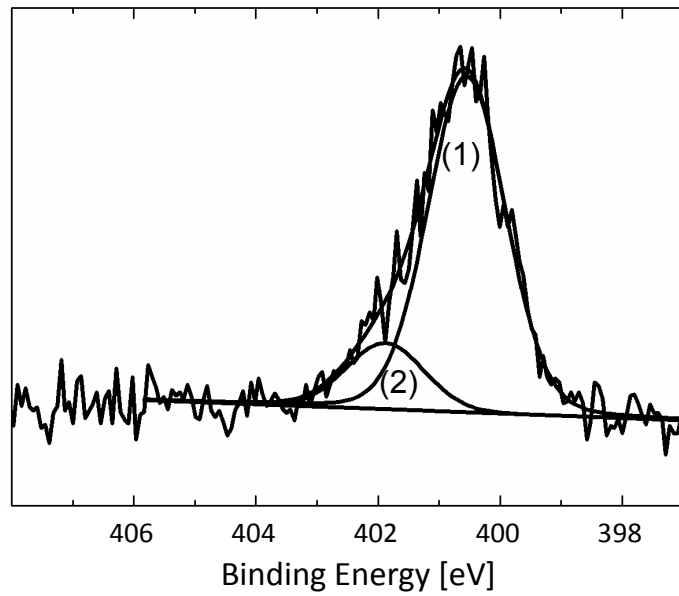


Figure S1: High-resolution XPS N1s core level spectrum of a silicon wafer functionalized with a 1:10 mixture of PFPA-silane:PFB-silane. This spectrum exhibits two peaks: (1) at 400.5 eV and (2) at 402.1 eV, see also table 3.

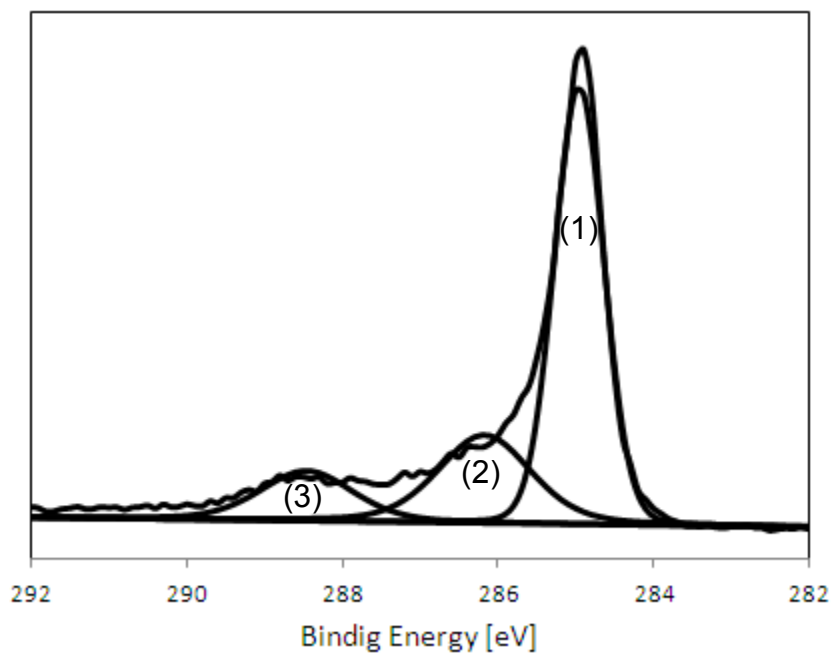


Figure S2: High-resolution XPS C1s core level spectrum of graphene attached to PFPA-functionalized silicon wafer surface. This spectrum exhibits three peaks: (1) at 285.0 eV, (2) at 286.6 eV and (3) at 288.2 eV.

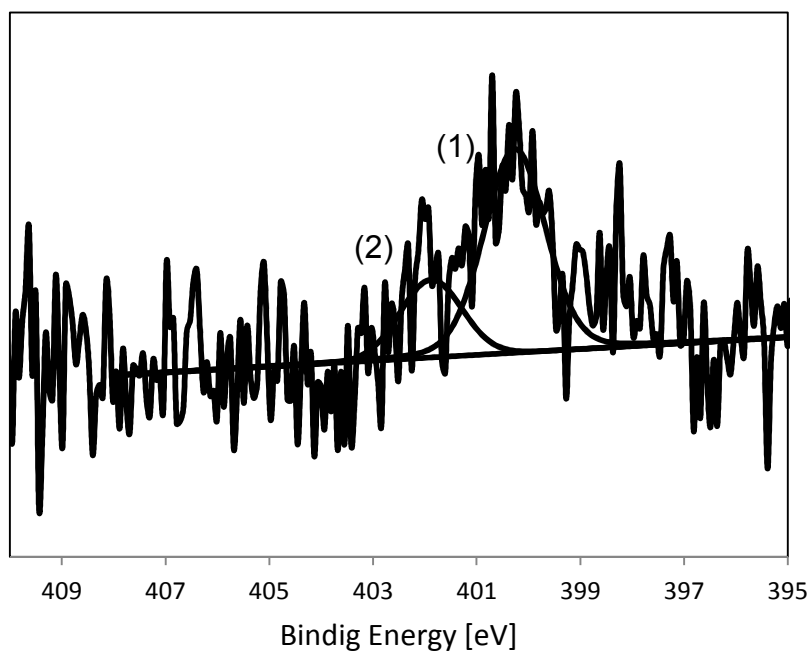


Figure S3: High-resolution XPS N1s core level spectrum of PFPA-functionalized gold surface that was exposed to UV irradiation in the absence of graphene. This spectrum exhibits two peaks: (1) at 400.5 eV and (2) at 402.1 eV.

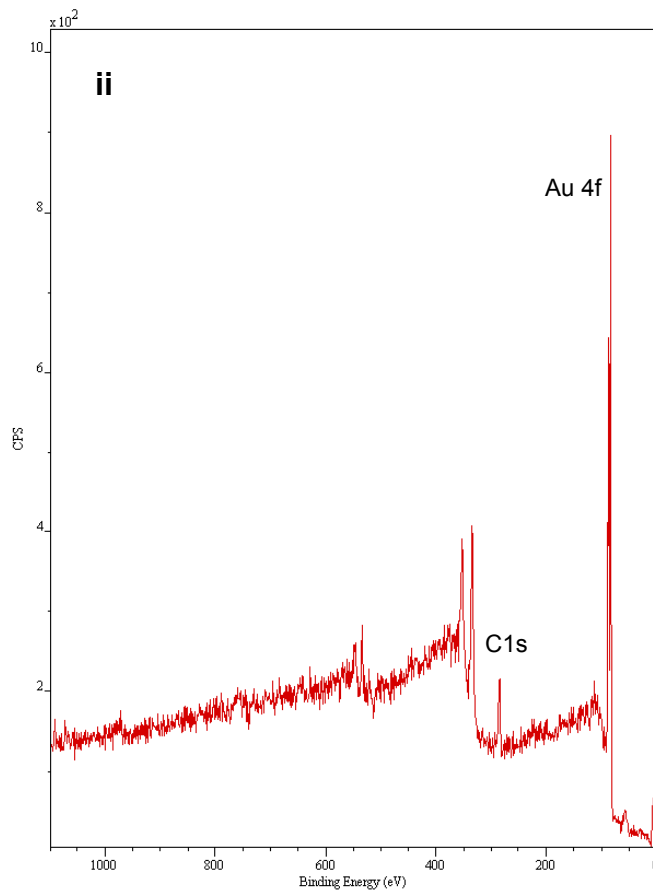
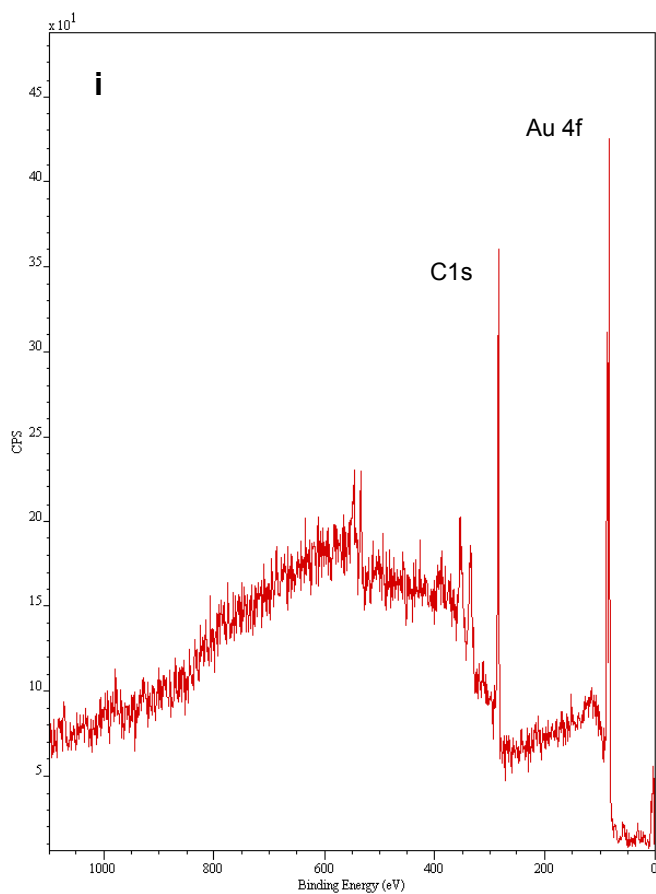
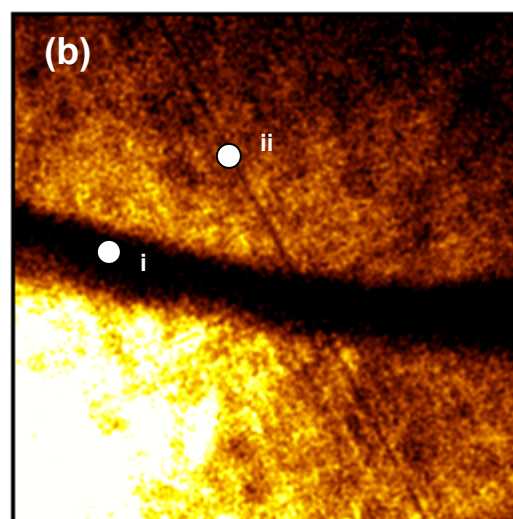
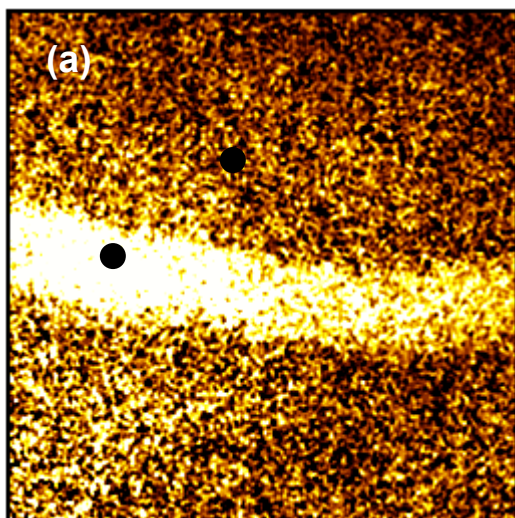


Figure S4. XPS background corrected images of patterned graphene on a PFPA-functionalized gold: (a) C1s image, (b) Au4f image. Image size: 400 μm \times 400 μm . Spots marked i and ii are the areas selected for small spot analyses (see corresponding spectra)