

## Layer-by-layer assembly of low-temperature-imprinted poly(methacrylic acid)/gold nanoparticle hybrids for gaseous formaldehyde mass sensing

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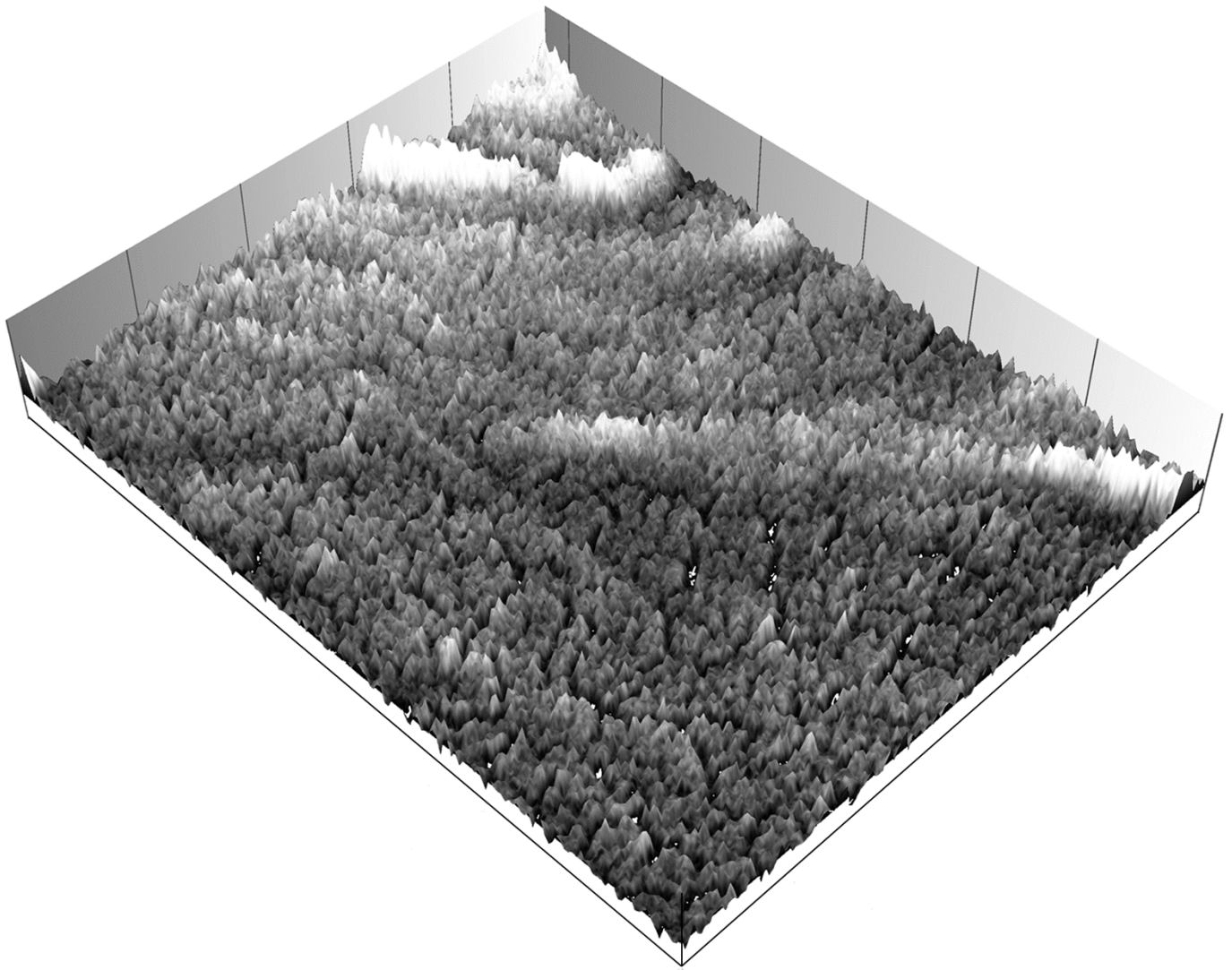
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### Electronic Supplementary Information

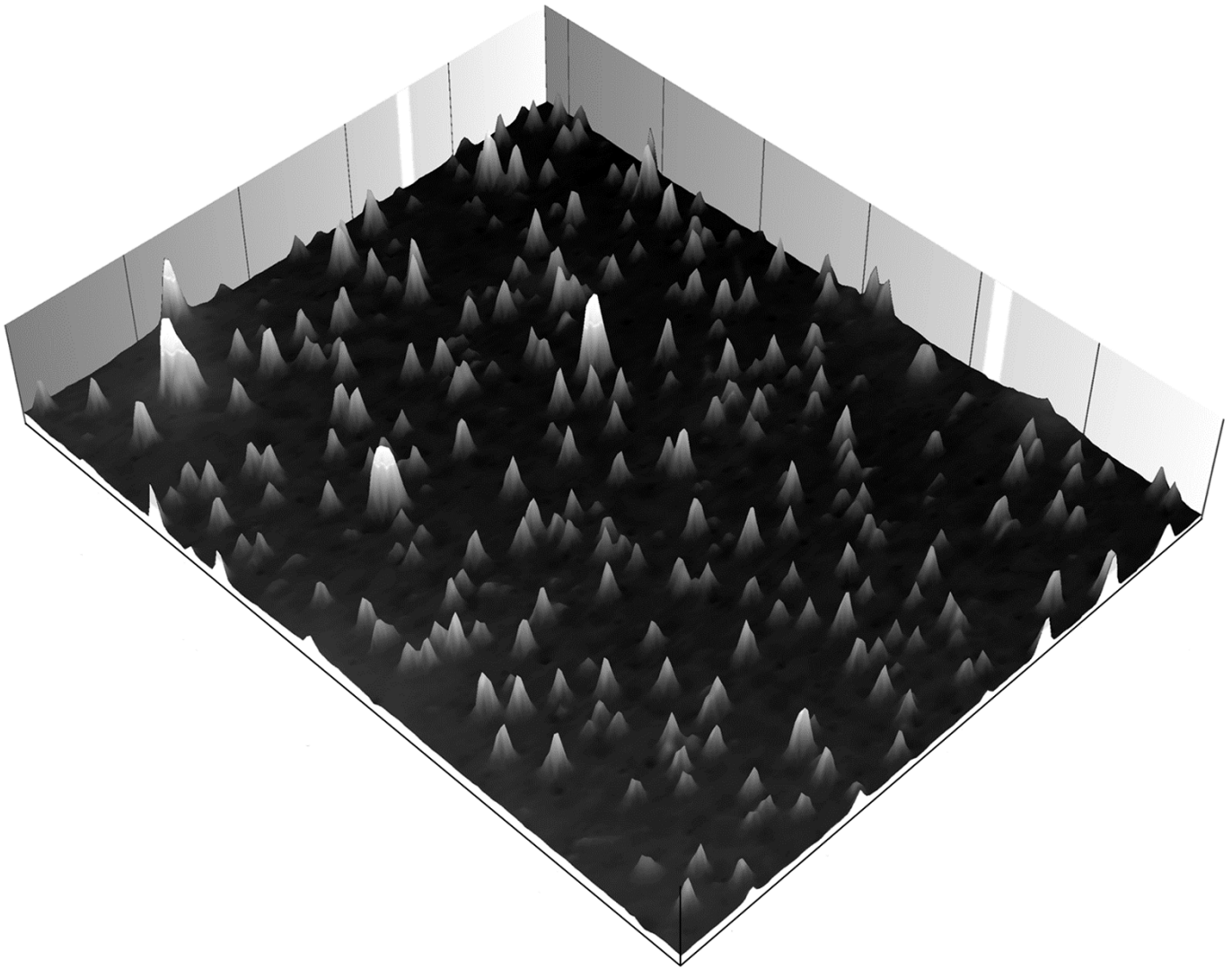
**Figure S1.** 3D surface plot of molecularly imprinted poly(methacrylic acid) [imp-PMAA] layer.

**Figure S2.** 3D surface plot of gold nanoparticles [Au-NPs] layer.

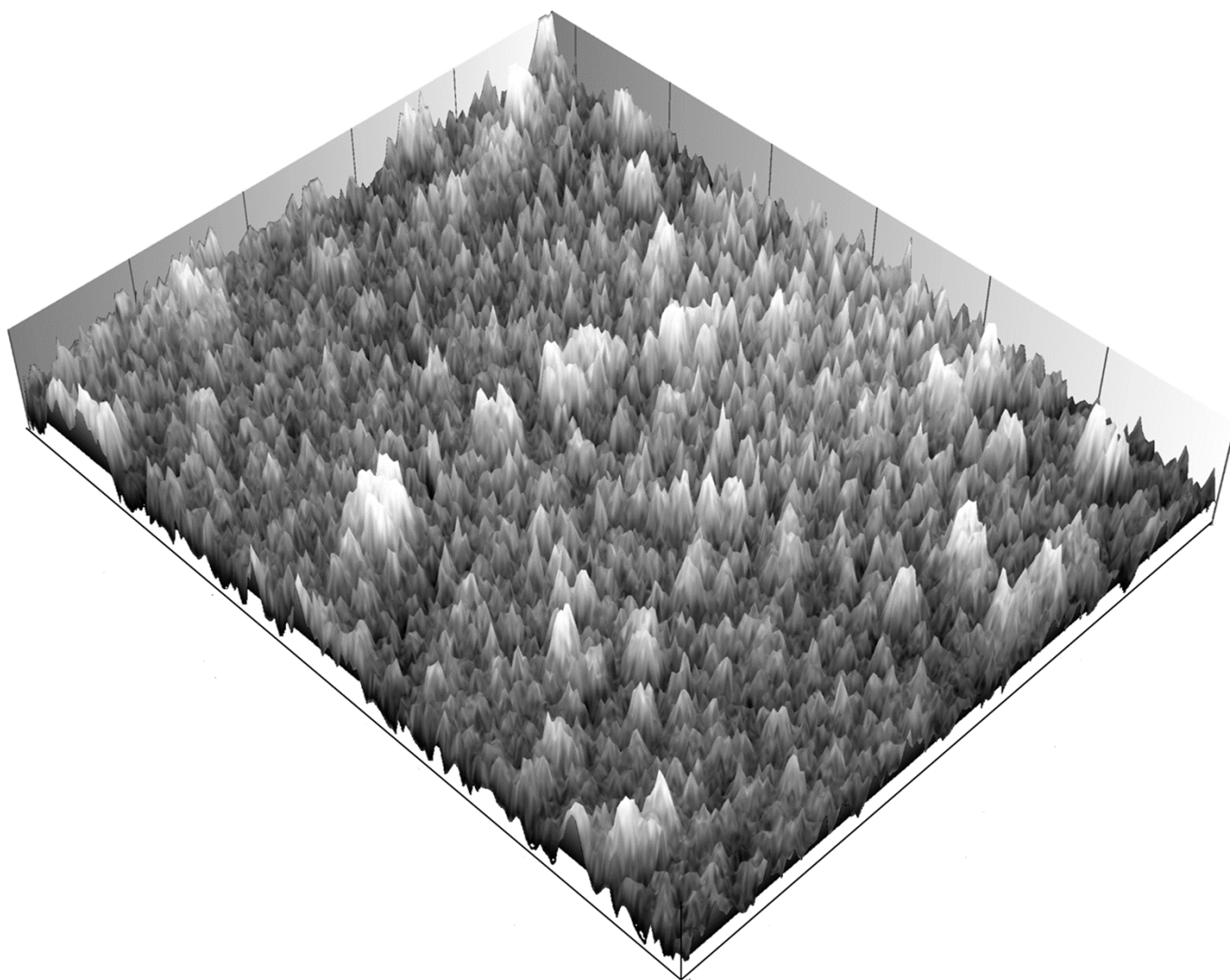
**Figure S3.** 3D surface plot of molecularly imprinted poly(methacrylic acid)/gold nanoparticles [imp-PMAA/Au-NPs] hybrid layer.



**Figure S1.** 3D surface plot of molecularly imprinted poly(methacrylic acid) [imp-PMAA] layer, dimensions: ca. 0.40 x 0.62 x 0.10  $\mu\text{m}$ .



**Figure S2.** 3D surface plot of gold nanoparticles [Au-NPs] layer, dimensions: ca. 0.40 x 0.62 x 0.08  $\mu\text{m}$ .



**Figure S3.** 3D surface plot of molecularly imprinted poly(methacrylic acid)/gold nanoparticles [imp-PMAA/Au-NPs] hybrid layer, dimensions: ca. 0.40 x 0.62 x 0.12  $\mu\text{m}$ .