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Supporting Information

Confined naked gold nanoparticles in ionic liquid films

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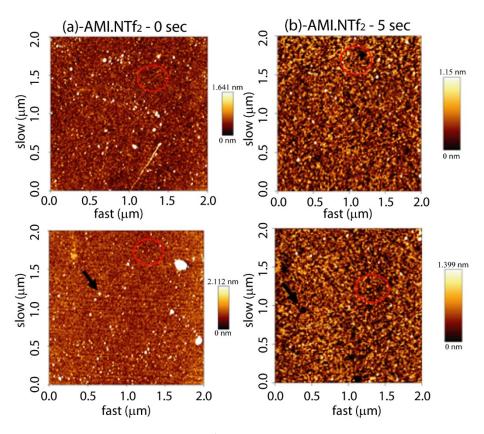


Figure S1. AFM measurements of IL/Si support (a) without NPs and (b) with Au NPs.

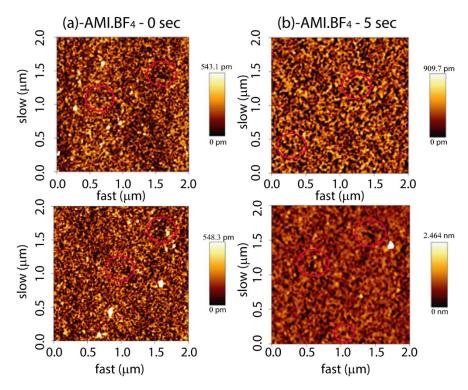


Figure S2. AFM measurements of IL/Si support (a) without NPs and (b) with Au NPs.

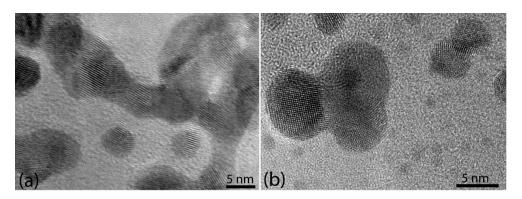


Figure S3. TEM images of Au NPs deposited for 10 s in AMIm.NTf₂ (a) and AMIm.BF₄ (b).

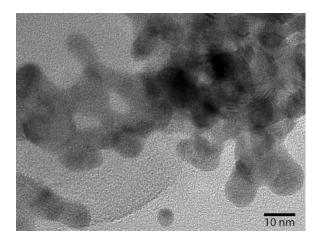


Figure S4. TEM images of Au NPs deposited for 5 s in 1-methyl-3-n-octylimidazolium bis((trifluoromethyl) sulfonyl) (OAI.NTf₂).

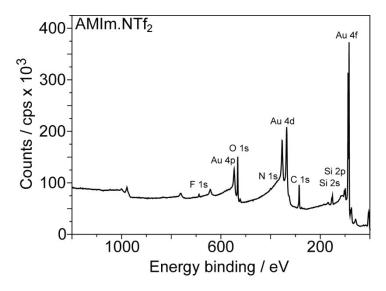


Figure S5. XPS long scan of Au NPs deposited on IL/Si support (AMIm.NTf₂).

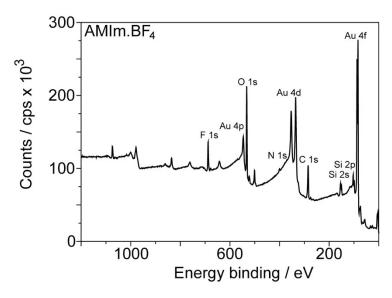


Figure S6. XPS long scan of Au NPs deposited on IL/Si support (AMIm.BF₄).

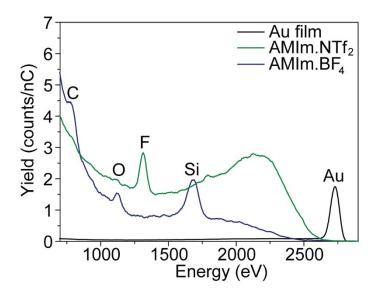


Figure S7. HS-LEIS spectra comparison of the samples synthesized and measured with a 3 keV 4He⁺ ion beam. The Au film was scaled by a factor of 0.03.