

Supplementary Information

Analytical determination of gold ions based on ranelate induced nanoparticles formation

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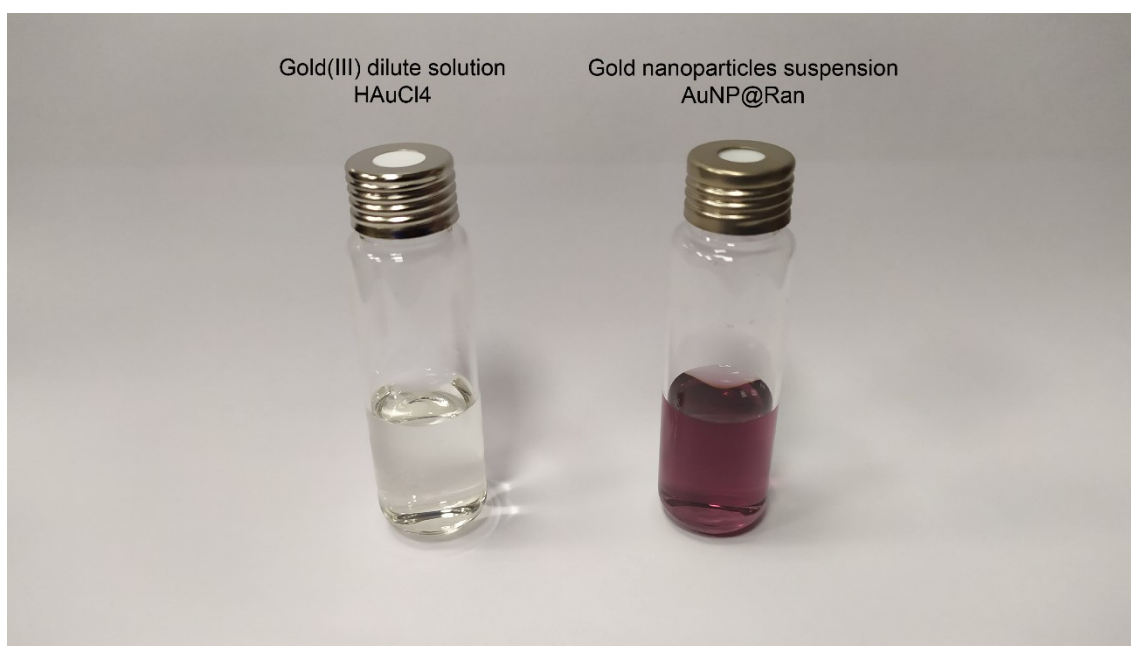


Figure S1. Gold(III) dilute solution in the form of H_{AuCl}₄ (left) and standard ranelate-stabilized gold nanoparticles purplish suspension (right).

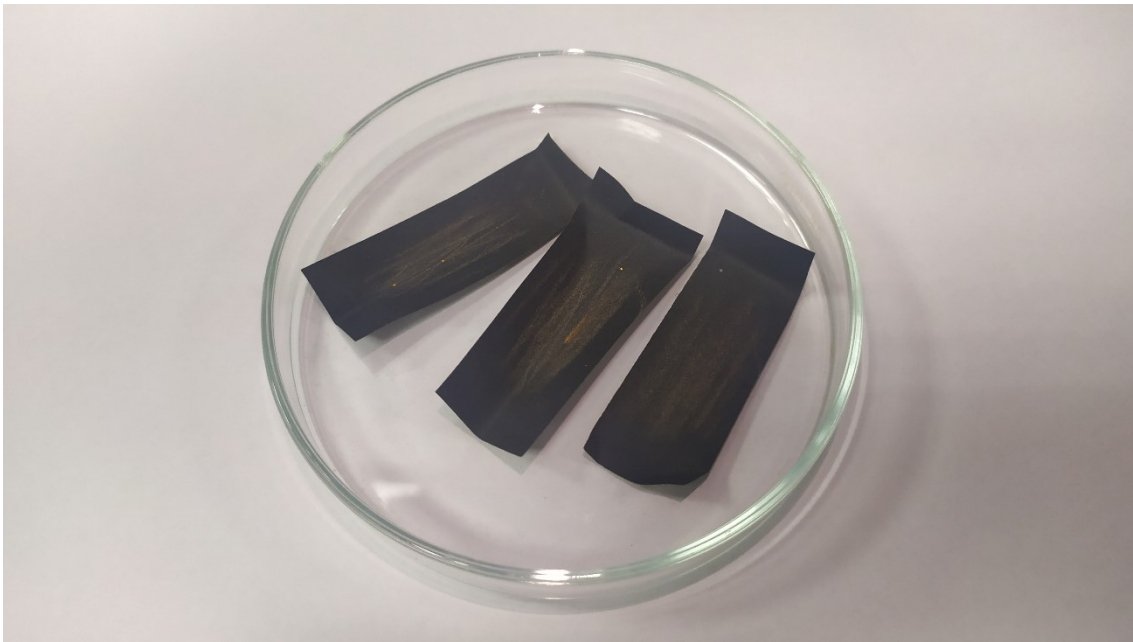


Figure S2. Real samples of sandpaper after polishing metallic gold, with gold powders on them.

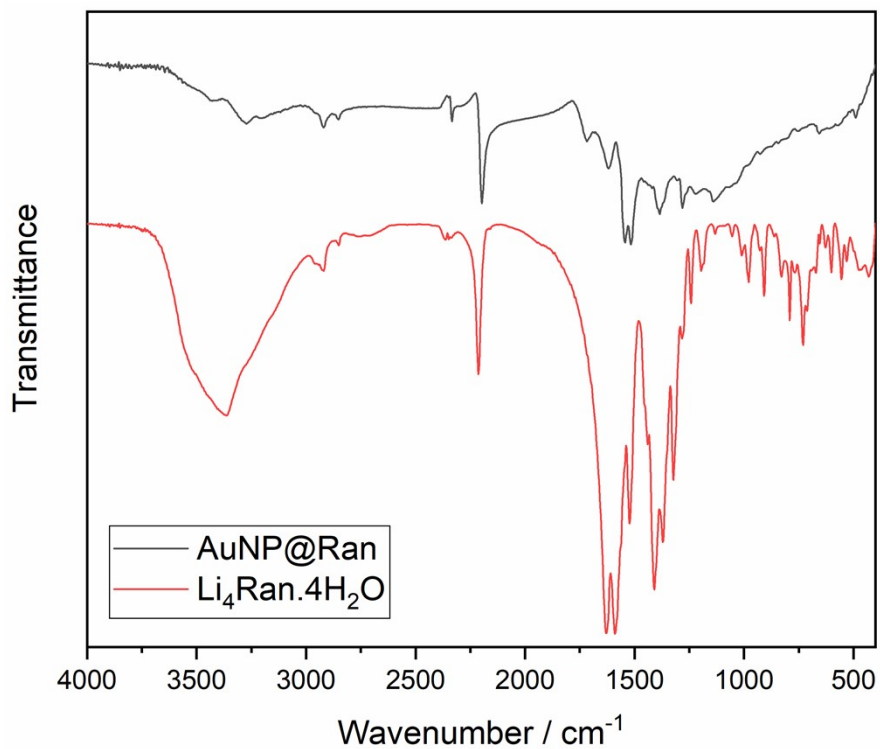


Figure S3. Infrared (FT-IR) spectra of ranelate-stabilized gold nanoparticles (AuNP@Ran) and lithium ranelate precursor ($\text{Li}_4\text{Ran}\cdot 4\text{H}_2\text{O}$) in KBr pellets. Acquisition of 24 scans with a resolution of 4 cm^{-1} from 4000 to 400 cm^{-1} , on an Alpha Bruker spectrometer.