



Supplementary Materials

Article

Robust LSPR sensing using thermally embedded Au nanoparticles in glass substrates

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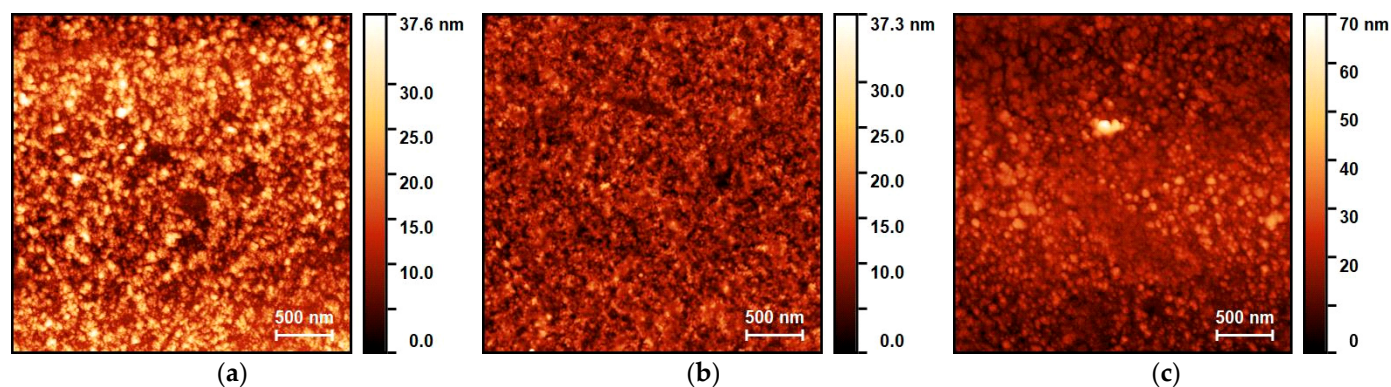


Figure S1. AFM images of the as-deposited nanometric thin Au layers over glass slides with varying nominal Au thicknesses: (a) 4 nm Au; (b) 8 nm Au; (c) 12 nm Au.

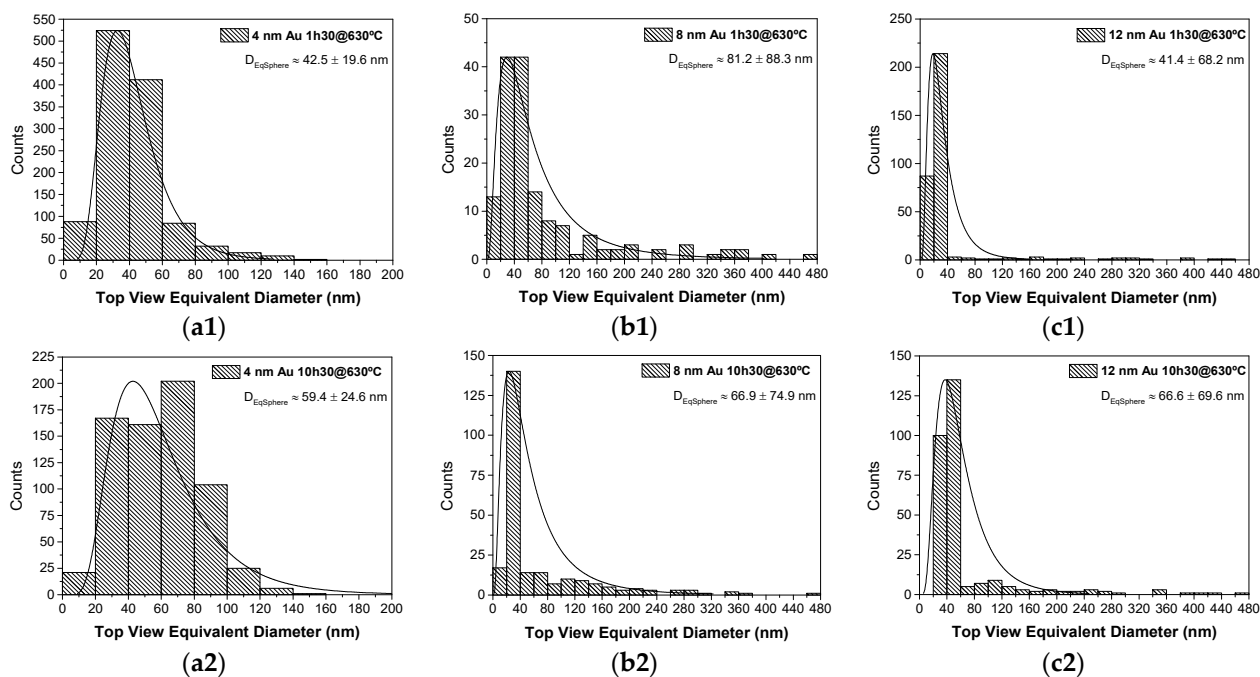


Figure S2. Distribution curves of the NP equivalent diameters for different samples: (a1) 4 nm Au annealed for 1h30; (b1) 8 nm Au annealed for 1h30; (c1) 12 nm Au annealed for 1h30; (a2) 4 nm Au annealed for 10h30; (b2) 8 nm Au annealed for 10h30; (c2) 12 nm Au annealed for 10h30.

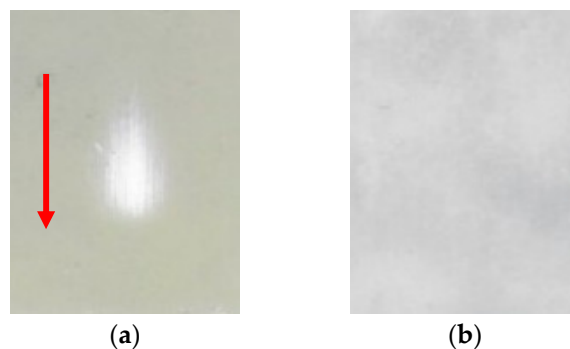


Figure S3. Color pictures of the scratch-tested 8 nm Au samples: (a) as-deposited; (b) thermally annealed at 630 °C for 1h30min. The scratch tests were made using a 1 cm viton ball adapted to the scratch tester stylus, under a progressive load setup until reaching 15 N of maximum load. The red arrow indicates the increasing load direction.