

Supplementary material

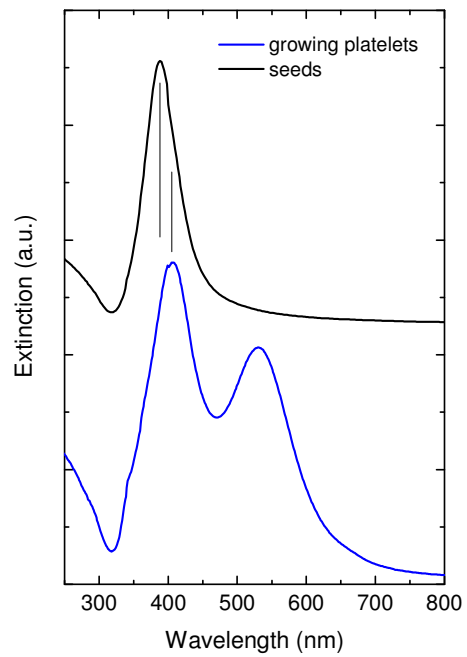


Figure S1: Spherical particles forming during secondary nucleation and growth give a characteristic signal which is markedly shifted towards the red with respect to small silver nanoparticles.

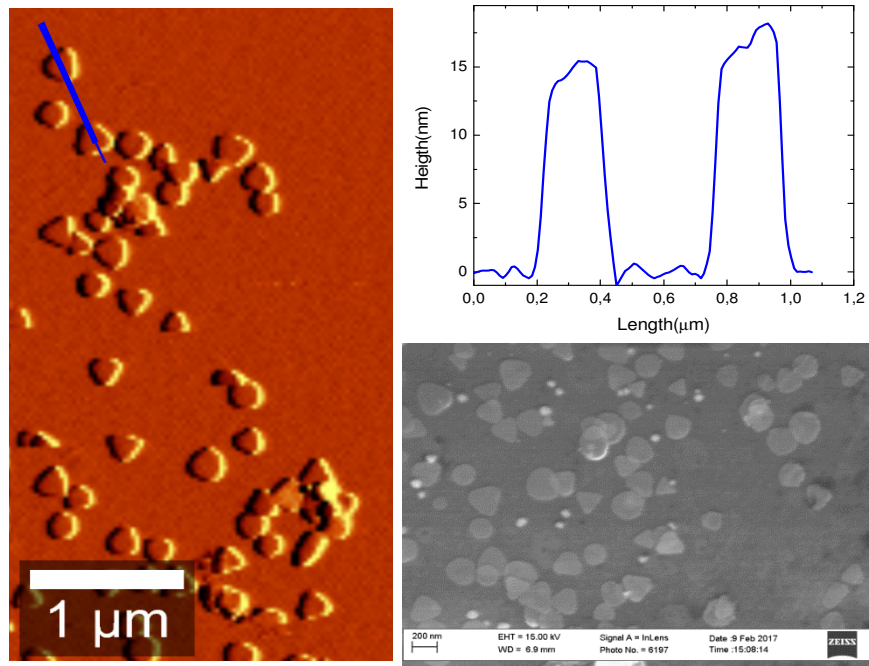


Figure S2: (a) AFM image and profile of Platelets obtained with 20 μl of seed solution once the colloid is suitably deposited onto a flat surface (b) SEM image of the same colloids.

Sucrose concentration % w/w	Refractive index - n
0.00	1.3330
10.00	1.3478
20.00	1.3639
30.00	1.3812
40.00	1.3999
50.00	1.4201
60.00	1.4419
70.00	1.4654
80.00	1.4958

Table S1: Refractive index of a sucrose aqueous solution as a function of the concentration

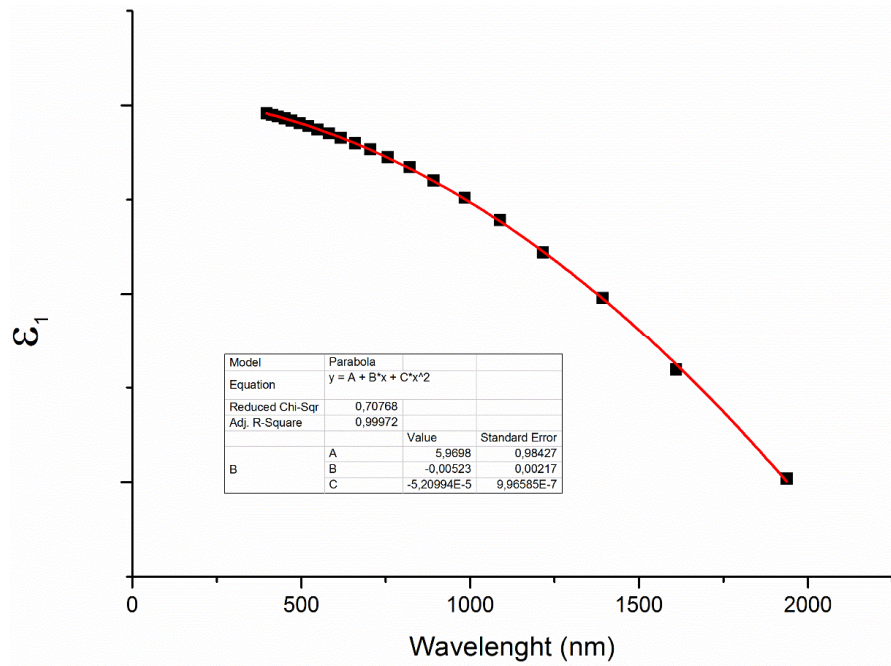


Figure S3: Fit of $\epsilon''(\lambda)$ using Equation 2 in the wavelength interval of interest (300-2000 nm)