Electronic Supplementary Material (ESI) for RSC Advances.

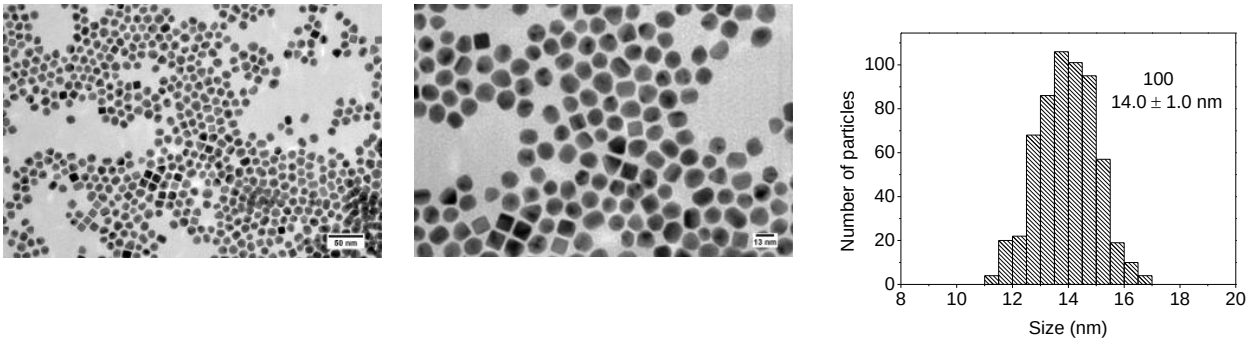
Supporting Information

$Au_{1-x}Cu_x$ colloidal nanoparticles synthesized via one-pot approach: Understanding the temperature effect on the Au:Cu ratio

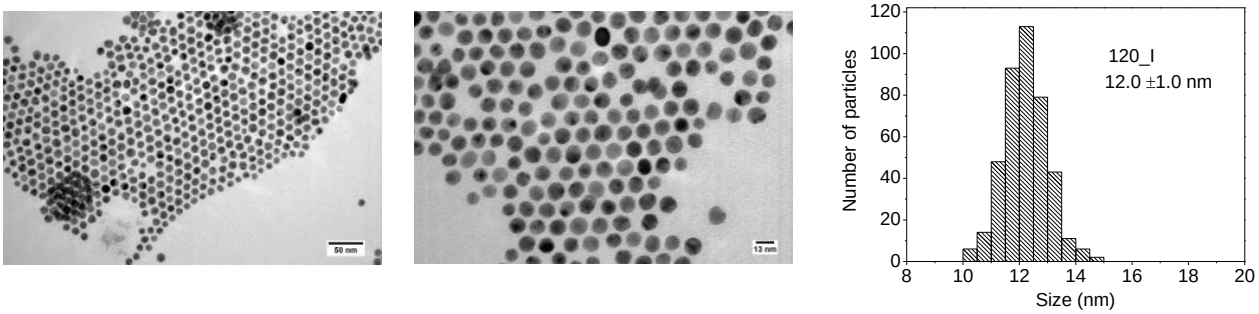
Priscila Destro[1], Massimo Colombo[2], Mirko Prato[2], Rosaria Brescia[2], Liberato Manna[2], Daniela Zanchet[1]*

[1]Institute of Chemistry, State University of Campinas (UNICAMP), P.O. Box 6154, 13083-970 Campinas, São Paulo, Brazil

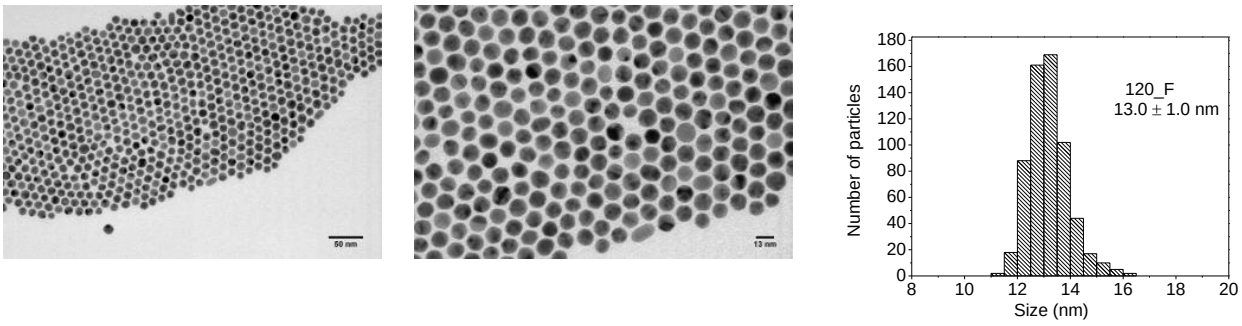
[2]Department of Nanochemistry, Istituto Italiano di Tecnologia, Via Morego 30, 16163 Genova, Italy



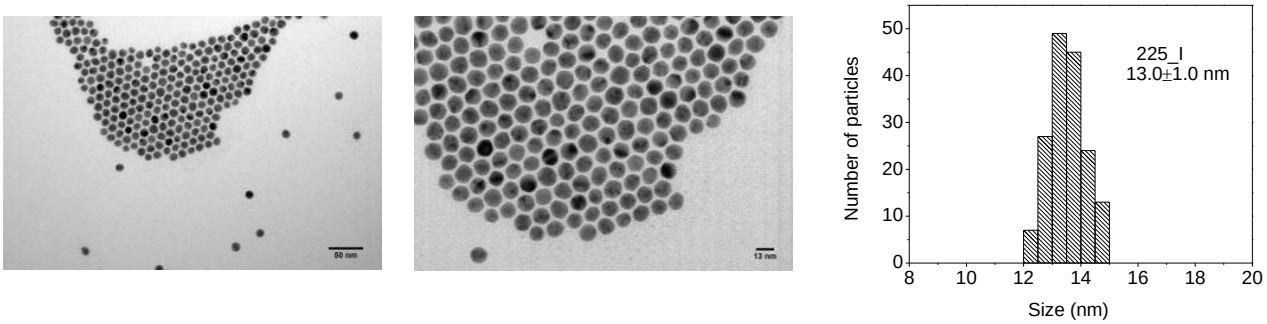
(a)



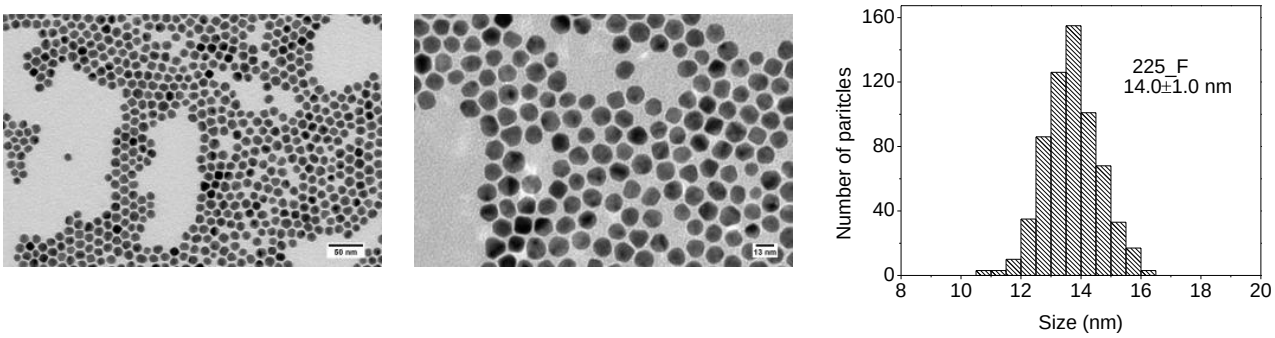
(b)


50 nm
13 nm
120_F
13.0 ± 1.0 nm
Number of particles
Size (nm)

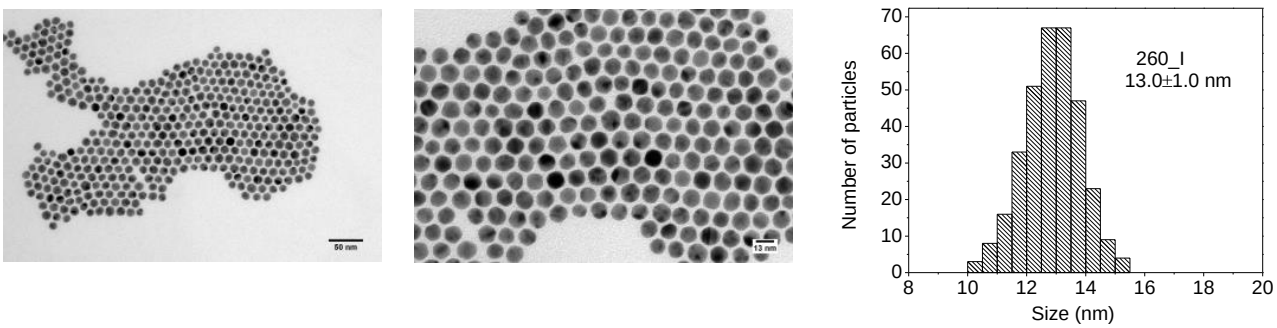
(c)


50 nm
13 nm
225_I
13.0±1.0 nm
Number of particles
Size (nm)

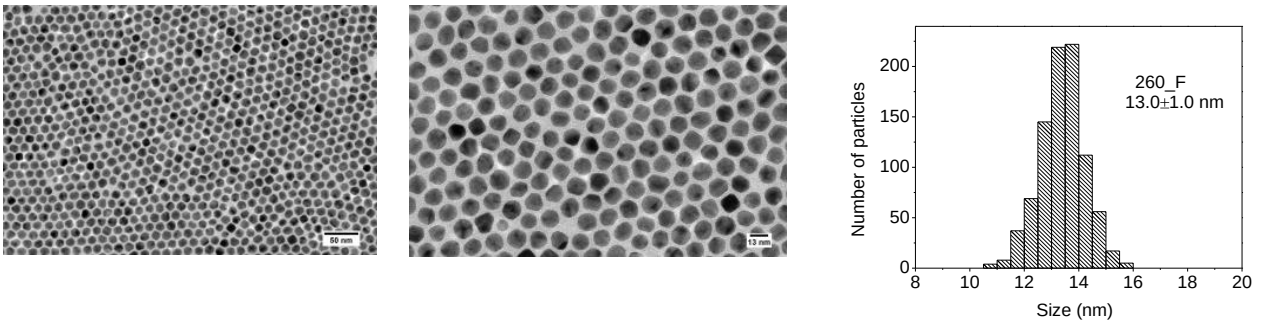
(d)


50 nm
13 nm
225_F
14.0±1.0 nm
Number of paritcles
Size (nm)

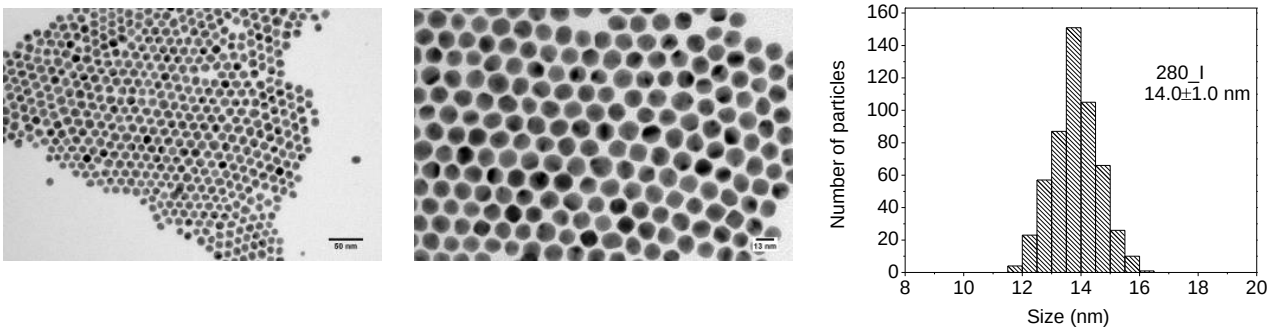
(e)


50 nm
13 nm
260_I
13.0±1.0 nm
Number of particles
Size (nm)

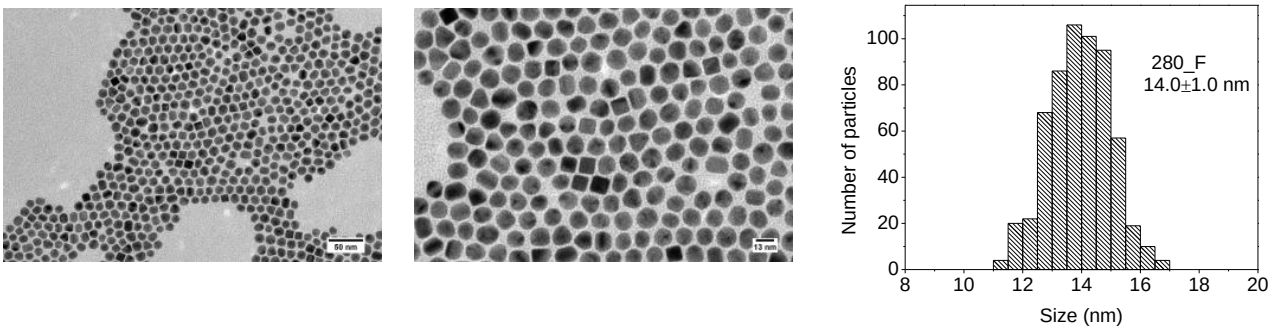
(f)



(g)

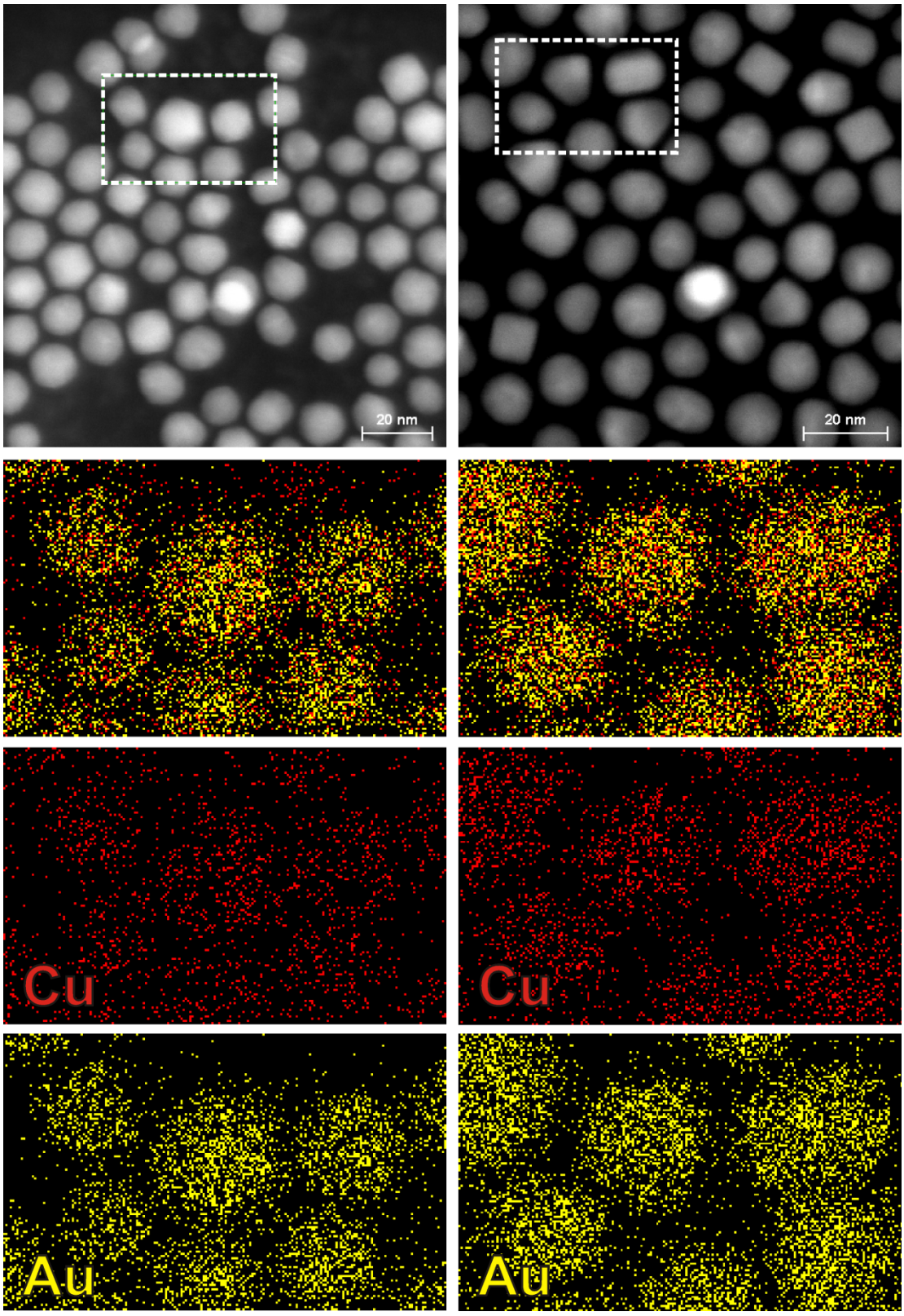


(h)



(i)

S1: TEM images probing the synthesis evolution (a) 100, (b) 120 _I, (c) 120 _F, (d) 225 _I, (e) 225_F, (f) 260_I, (g) 260_F, (h) 280_I and (i) 280_F.



S2: HAADF-STEM imaging and STEM-EDS elemental analysis for the two samples obtained at 280_I (left) and 280_F (right).