Electronic Supplementary Information (ESI)

Palladium 1D nanoscale aggregates on a graphite surface using CTAB hemicylindrical micelle templates

I.R. Nizameev[a,b], M.K. Kadirov*[a,c], V.A. Semyonov[c], L.Ya. Zakharova[a], I.Kh. Rizvanov[a] and V. M. Babaev[a]

[a]A.E. Arbuzov Institute of Organic and Physical Chemistry, Kazan Scientific Center, Russian Academy of Sciences, 8, ul. Akad. Arbuzova, Kazan 420088, Russia.

[b]Kazan National Research Technical University, 10, ul. K. Marx, Kazan 420111, Russia.

[c]Kazan National Research Technological University, 68, ul. K. Marx, Kazan 420015, Russia.

E-mail: kamaka59@gmail.com.

List of supporting figures.

Figure S1. AFM image of 2x2 μm area of large aggregates of Pd on a HOPG surface

Figure S2. AFM topography-image of 2x2 μm area of large aggregates of Pd on a HOPG surface

Figure S3. AFM image of a large aggregates and palladium strips on a HOPG surface

Figure S4. AFM image (300×300 nm) of adsorbed structure of CTAB at the graphite/solution interface (t = 27.2 °C)

Figure S5. AFM image (300×300 nm) of adsorbed structure of CTAB at the graphite/solution interface (t = 29.0 °C)

Figure S6. AFM image (300×300 nm) of adsorbed structure of CTAB at the graphite/solution interface, temperature is changed (28.2-28.4 °C) from bottom of the image to its top

Figure S7. Profile of palladium bands along the black line (Fig.4 in article) without deconvolution procedure

Figure S8. Profile of palladium bands along the black line (Fig.4 in article) after deconvolution procedure (radius of the tip is 10 nm). A platform between the bands have a width of 3-4 nm

Fig. S9. TEM image of Pd particles deposited on the surface of formvar using CTAB micellar template

Fig. S10. TEM image of Pd particles deposited on the surface of formvar using CTAB micellar template

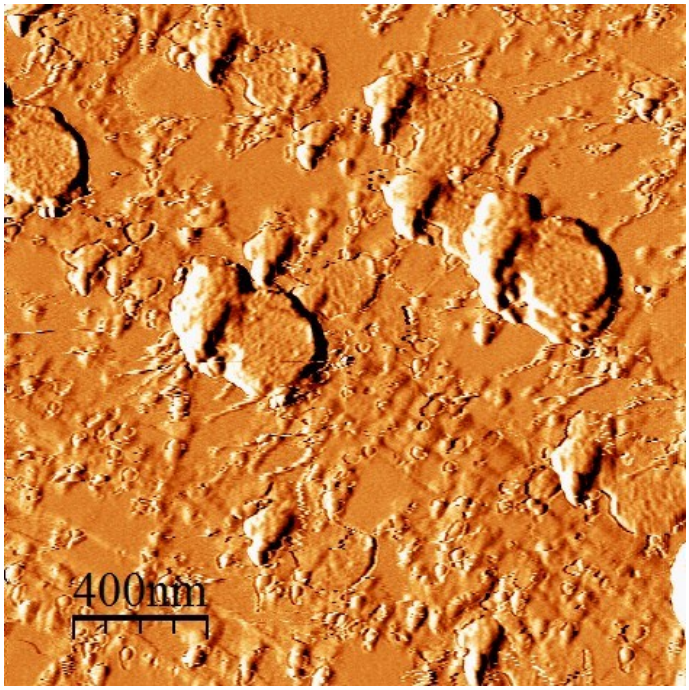

Figure S1. AFM image of 2x2 μm area of large aggregates palladium on a HOPG surface

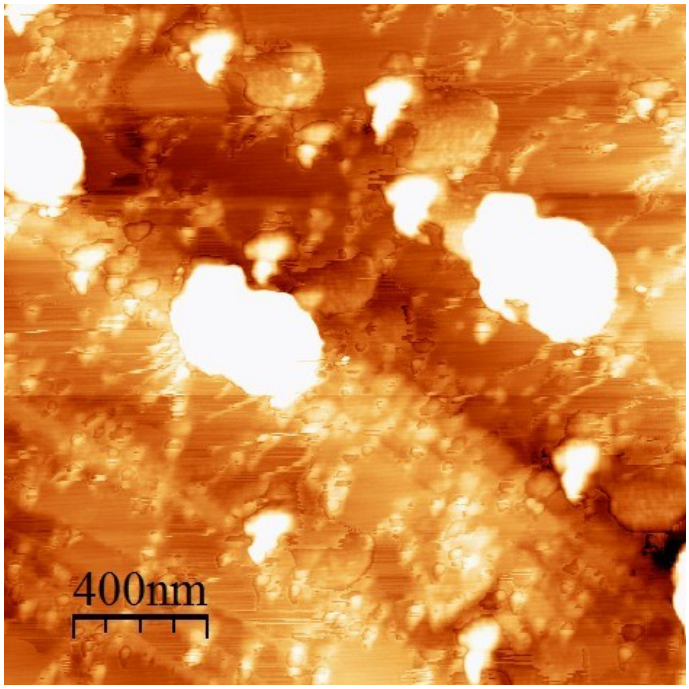

Figure S2. AFM topography-image of 2x2 μm area of large aggregates palladium on a HOPG surface

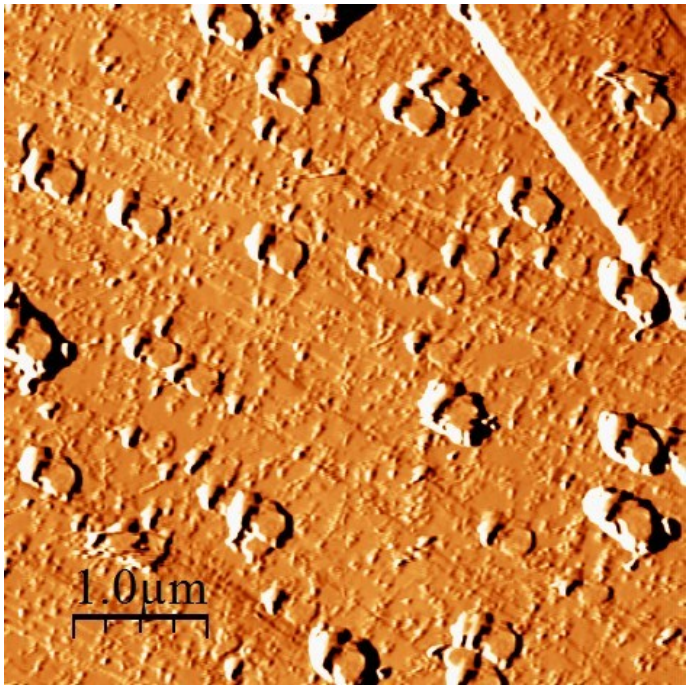

Figure S3. AFM image of a large aggregates and palladium bands on a HOPG surface

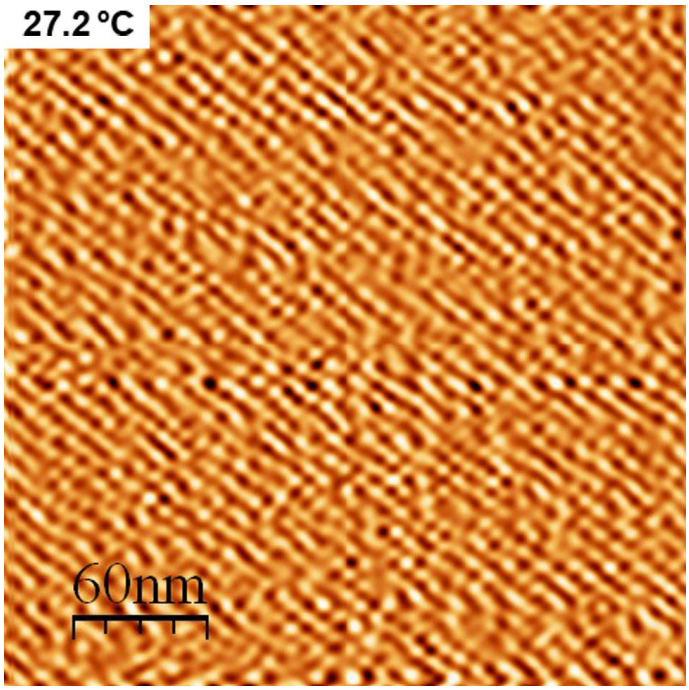

Figure S4. AFM image (300×300 nm) of adsorbed structure of CTAB at the graphite-water interface (t = 27.2 °C)

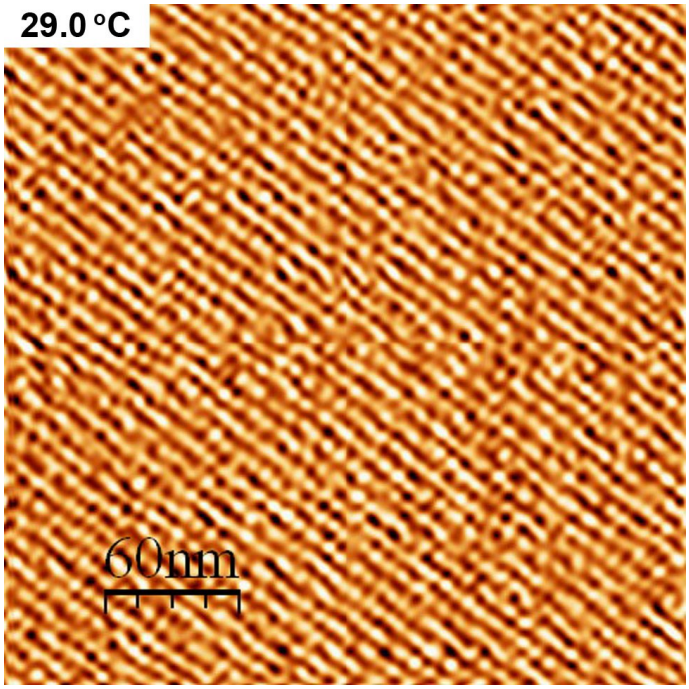

Figure S5. AFM image (300×300 nm) of adsorbed structure of CTAB at the graphite-water interface (t = 29.0 °C)

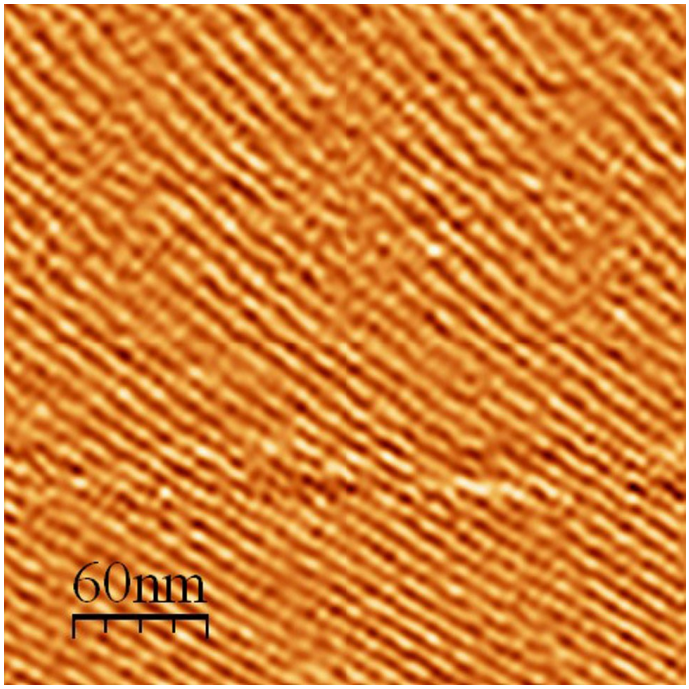

Figure S6. AFM image (300×300 nm) of adsorbed structure of CTAB at the graphite-water interface, from bottom of image to its top temperature is changed (28.2-28.4 °C)

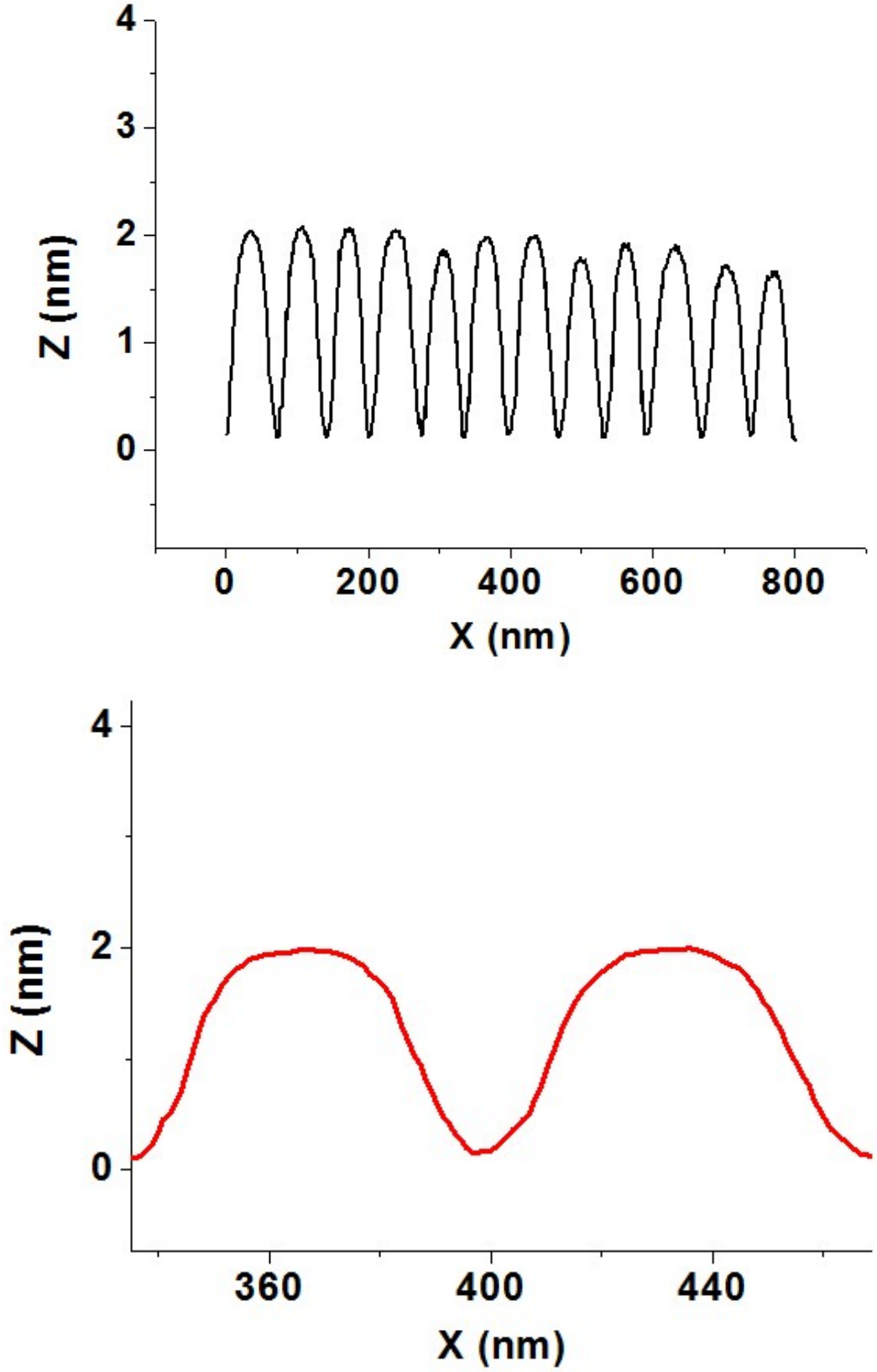

Figure S7. Profile of palladium bands along the black line (Fig.4 in article) without deconvolution procedure

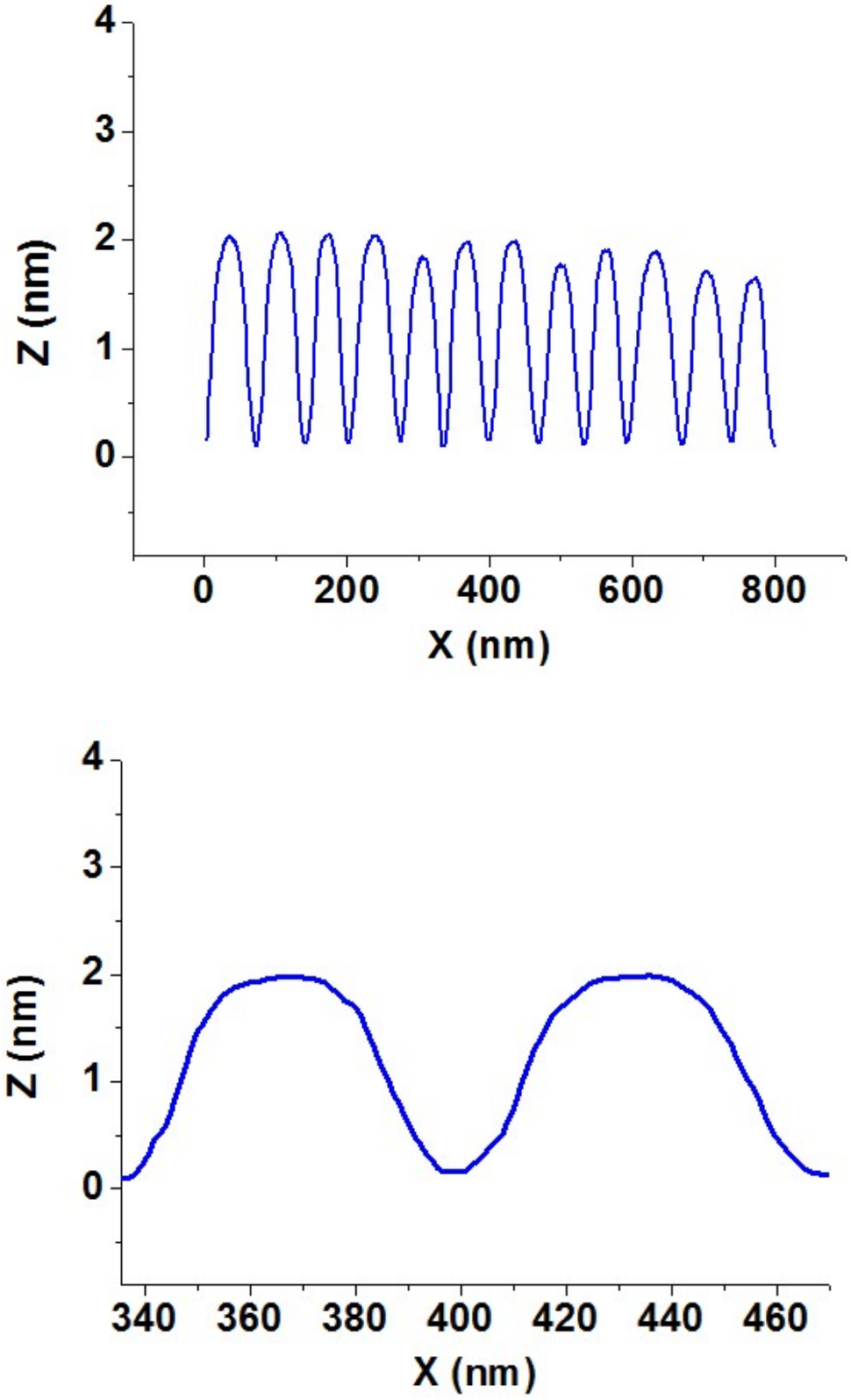

Figure S8. Profile of palladium bands along the black line (Fig.4 in article) after deconvolution procedure (radius of the tip is 10 nm). Platform between the bands have a width of 3-4 nm

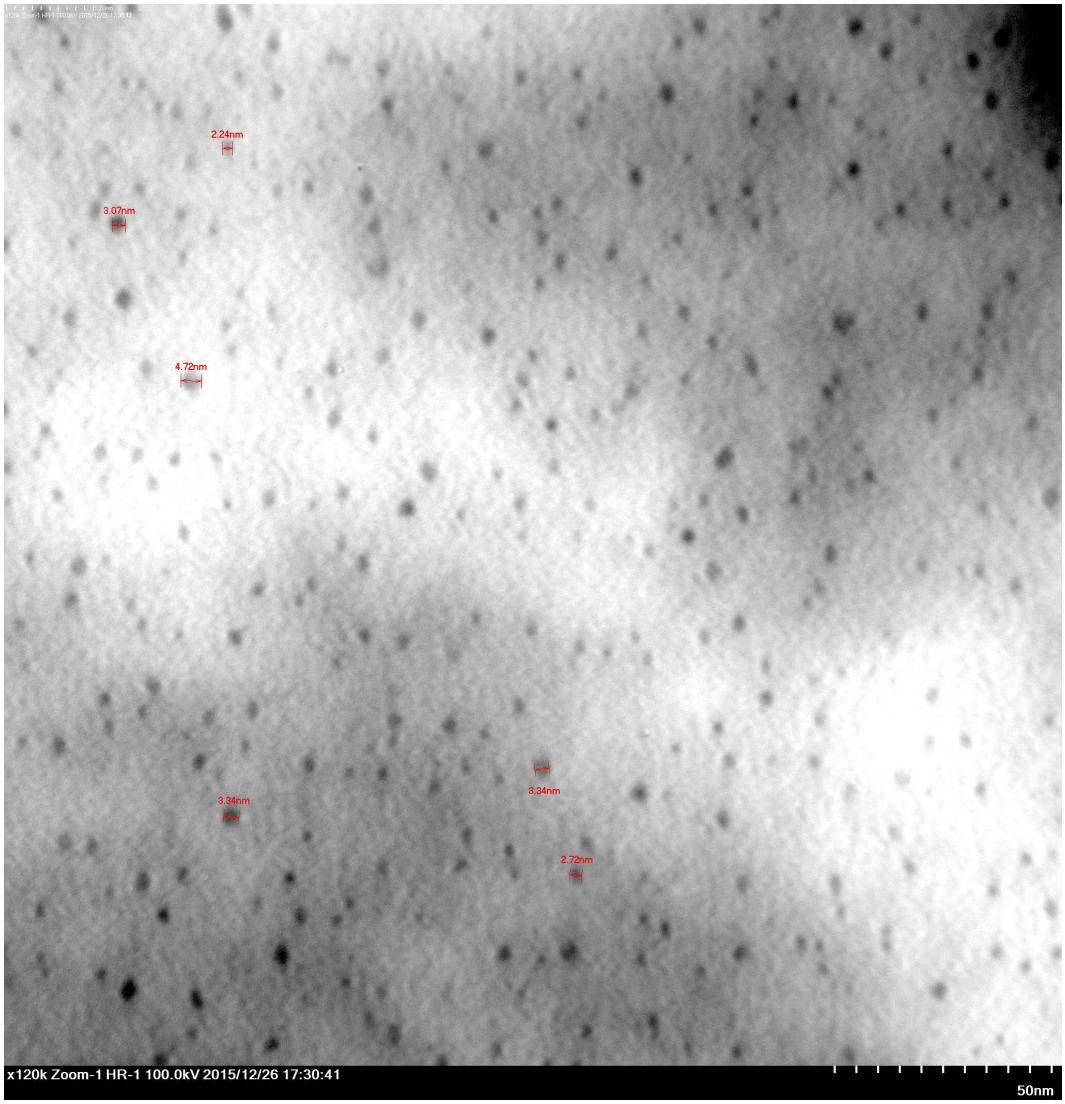

Fig. S9. TEM image of Pd particles deposited on the surface of formvar using CTAB micellar template

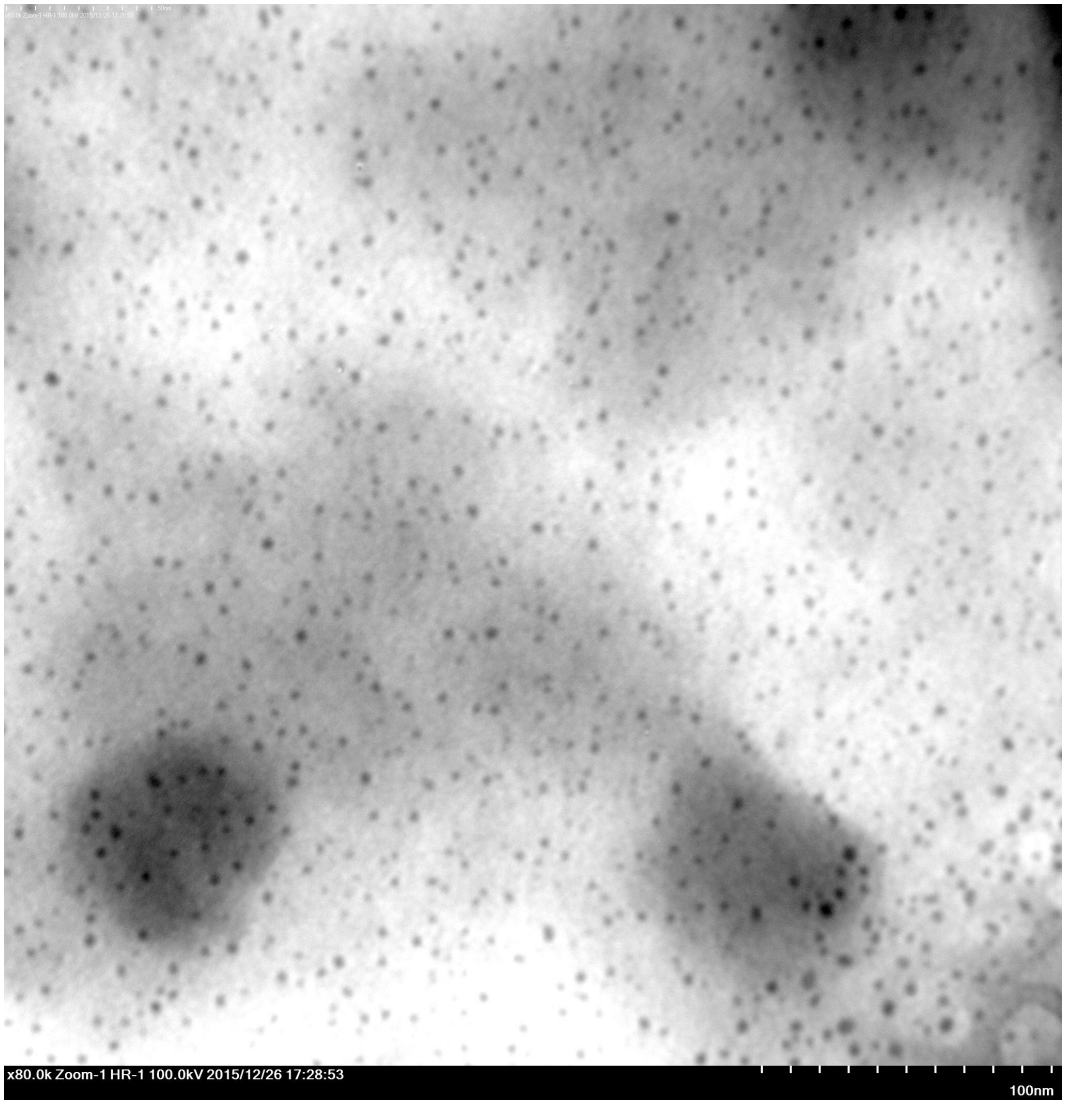

Fig. S10. TEM image of Pd particles deposited on the surface of formvar using CTAB micellar template.