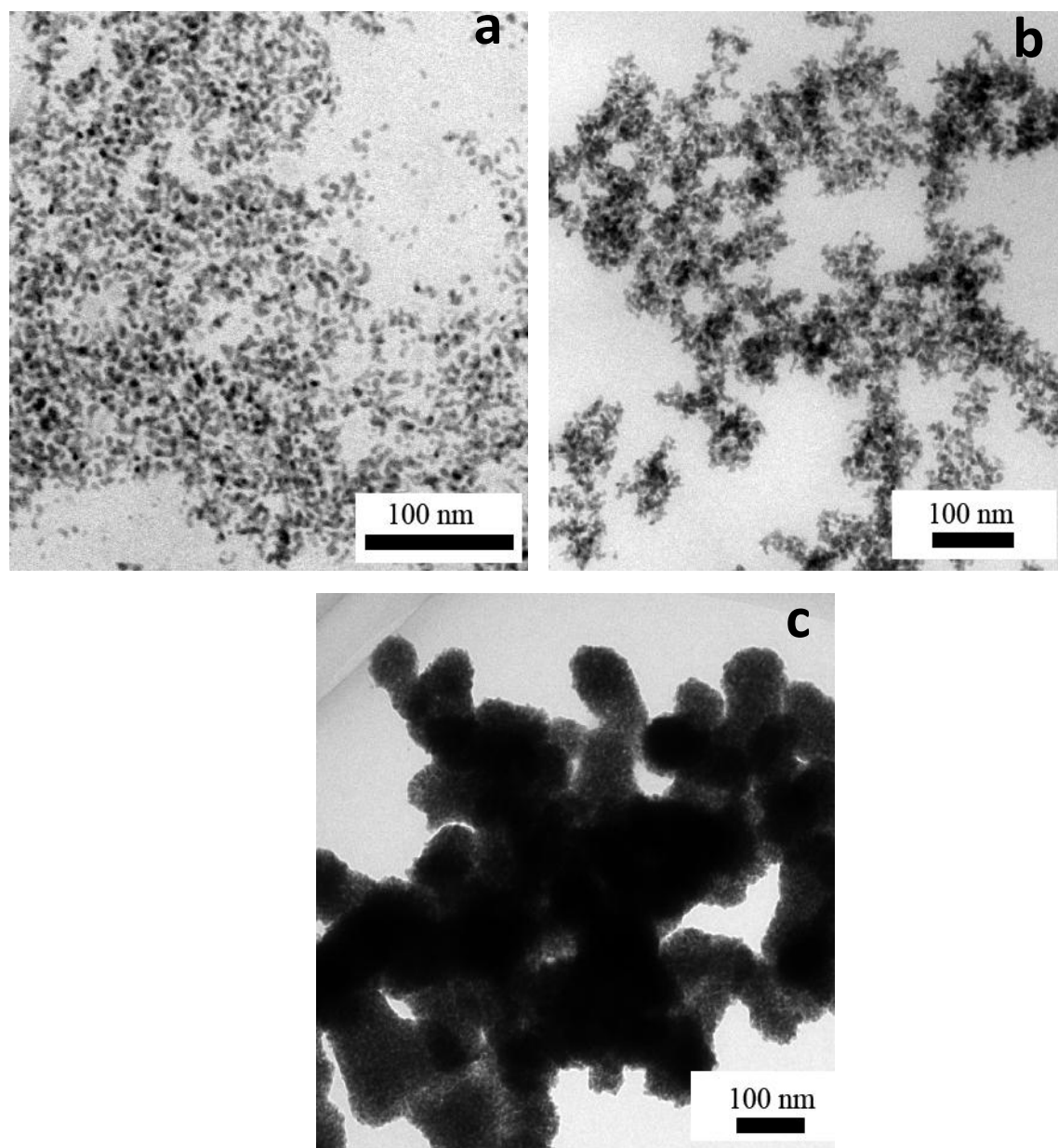


### Supplementary Information



The figure shows the Pd nanostructures prepared at dielectric constants of the binary mixture of the reaction solution are (a)  $\epsilon_m = 7$ , (b)  $\epsilon_m = 10$ , (c)  $\epsilon_m = 24$ .