

Figure S7: Simulated Au nanoparticle images at $E = 30$ keV with a cold FEG at various levels of monochromatization. For each column $\Delta E = 25$ meV, 50 meV, 75 meV, 110 meV, 150 meV, 200 meV, 250 meV, 287 meV, 400 meV, 500 meV, and 650 meV. The C_c coefficient for each row is $C_c = 0$ mm, 1.1 mm, 1.8 mm, and 3.0 mm from top to bottom respectively. Scale bar is 15 angstroms.

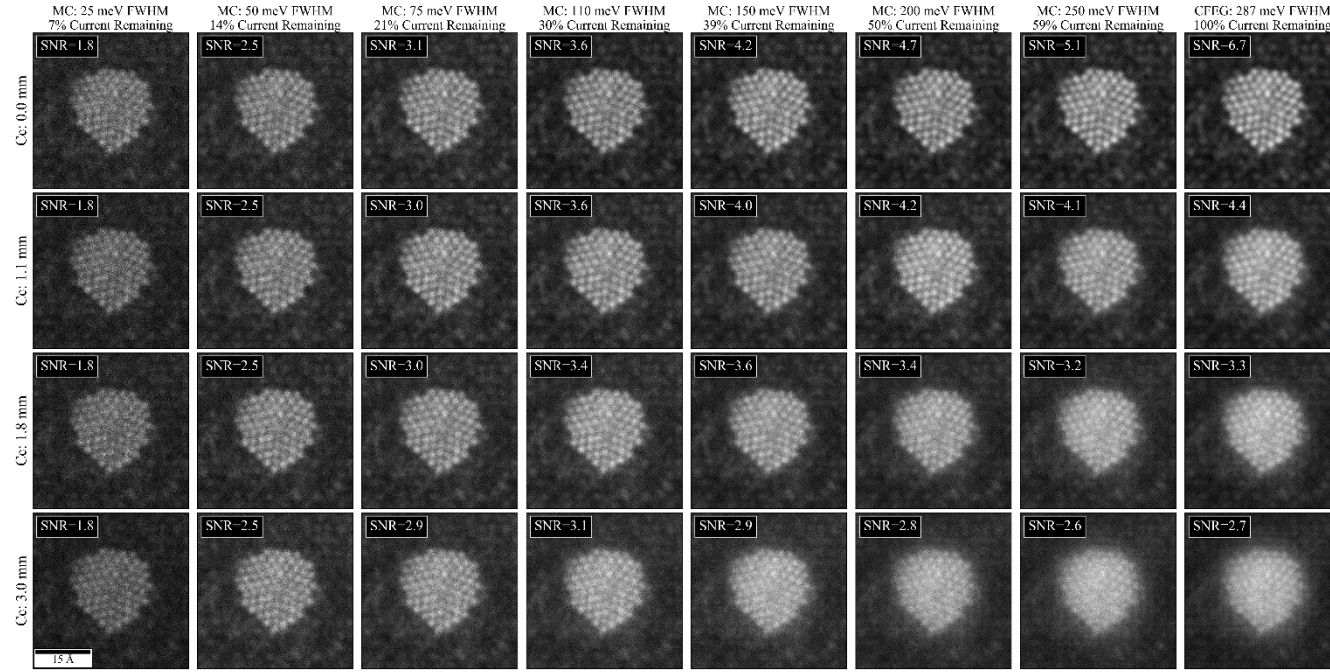


Figure S8: Simulated Au nanoparticle images at $E = 15$ keV with a cold FEG at various levels of monochromatization. For each column $\Delta E = 25$ meV, 50 meV, 75 meV, 110 meV, 150 meV, 200 meV, 250 meV, 287 meV, 400 meV, 500 meV, and 650 meV. The C_c coefficient for each row is $C_c = 0$ mm, 1.1 mm, 1.8 mm, and 3.0 mm from top to bottom respectively. Scale bar is 15 angstroms.