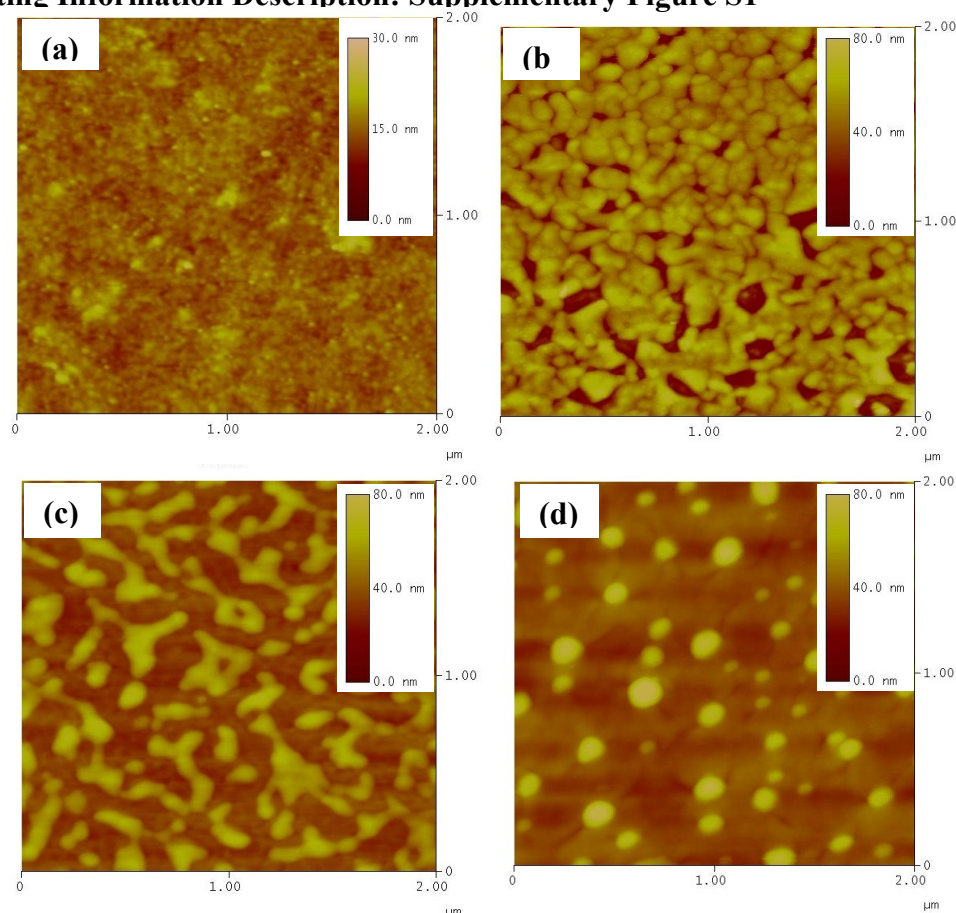


# Supporting Information Description: Supplementary Figure S1



150 keV Ar ion Fluence ( ions/cm <sup>2</sup> )	Roughness (nm)
(a) pristine	2
(b) $5 \times 10^{15}$	5
(c) $1 \times 10^{16}$	7
(d) $5 \times 10^{16}$	6

**Figure S1.** AFM images of (a) as deposited Au film on PET and films after 150 keV Ar ion irradiation at fluences of (b)  $5 \times 10^{15}$ , (c)  $1 \times 10^{16}$ , and (d)  $5 \times 10^{16}$  ions/cm<sup>2</sup>. Table includes the roughness values of the respective samples. [Figures reproduced from: Jai Prakash et al., Synthesis of Au nanoparticles at the surface and embedded in carbonaceous matrix by 150 keV Ar ion irradiation, J. Phys. D: Appl. Phys 44, 125302 (2011) with permission from IOP publishing Ltd., Bristol].