

Figure S1. X-ray diffraction pattern of silver grains deposited on the surface of TNT6; Ag: 38.1 (111), 44.6 (200), 64.7 (220), 77.5 (311) and 81.5 (222), Ti: 35.1 (100), 38.4 (002), 40.2 (101), 53.0 (102), 70.7 (103), 76.3 (112) and 82.3 (004) (results of these investigations indicate on the amorphousness of the TNT6 coating, CVD, $T_D = 553$ K, $p = 3$ mbar, $t = 30$ min., $m = 10$ mg).

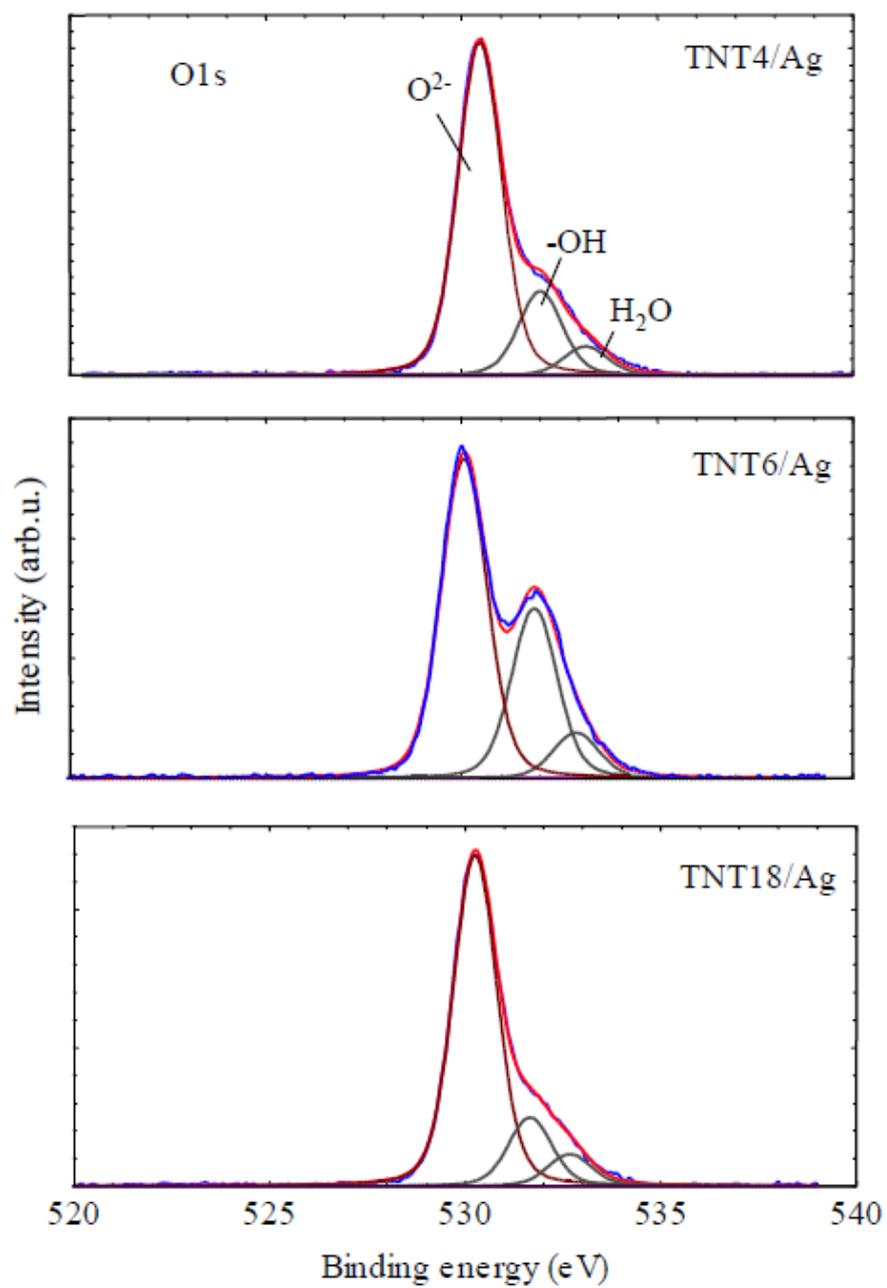


Figure S2. The deconvolution of O(1s) peak in the XPS spectrum of TNT/Ag coatings.

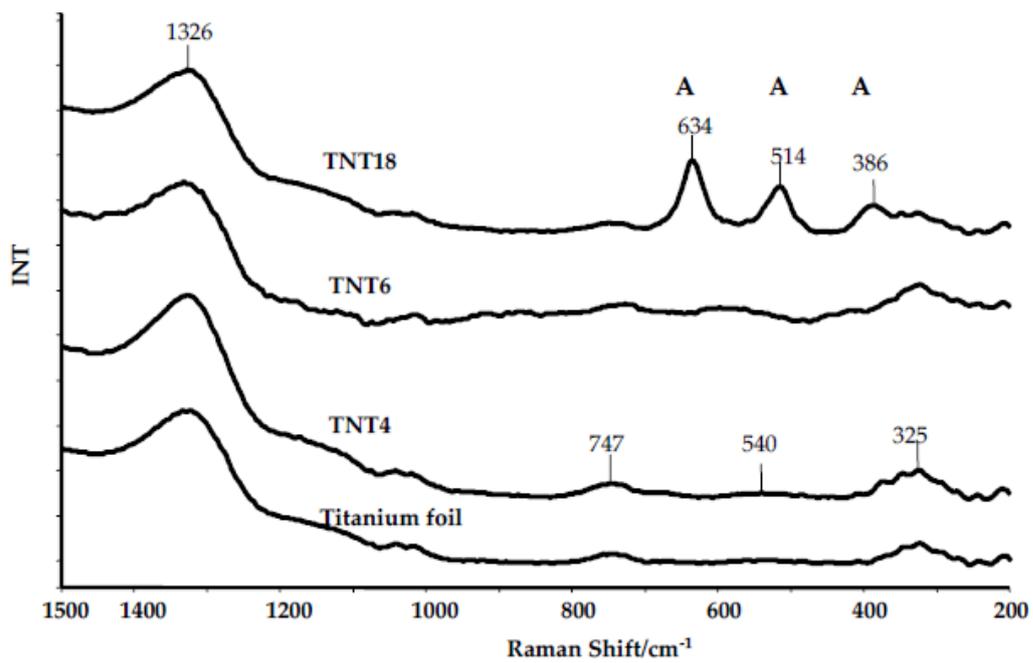


Figure S3. Raman spectra of TNT samples heated up to 573 K.