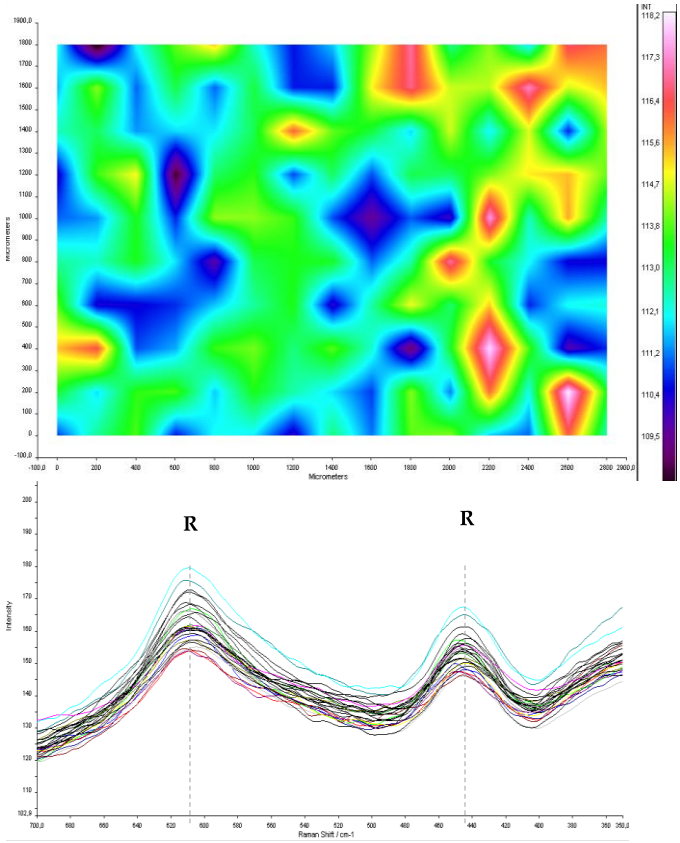

Figure S1. Raman microscopy map of TNW600

Table S1. Observable rate constants (k_{obs}) for the process of acetone (A) and methylene blue (MB) degradation by studied nanomaterials under UV light.

Nanomaterial	10^2 k_{obs}^{A} [ppm·min^{-1}] for A degradation	10^5 k_{obs}^{MB} [min^{-1}] for MB degradation
TNT5	3.33 ± 0.03	13.7 ± 3.5
TNT10	5.48 ± 0.03	20.8 ± 6.3
TNT15	7.98 ± 0.06	11.3 ± 2.4
TNT20	22.1 ± 0.1	12.2 ± 1.6
TNT30	29.2 ± 0.3	12.2 ± 3.1
TNT40	35.2 ± 0.3	14.4 ± 4.4
TNT50	22.2 ± 0.1	7.41 ± 1.8
TNT60	8.27 ± 0.08	13.1 ± 7.2
Pilkington	27.0 ± 0.1	55.3 ± 5.1
TNF80	17.6 ± 0.1	28.9 ± 1.6
TNF100	26.8 ± 0.1	33.2 ± 2.6
TNF120	61.5 ± 0.5	51.6 ± 6.8
TNF140	67.5 ± 0.3	62.0 ± 8.9
Pilkington	27.0 ± 0.1	53.2 ± 7.6
TNW475	16.6 ± 0.1	77 ± 17
TNW500	52.4 ± 0.1	58 ± 11
TNW550	8.00 ± 0.08	40.3 ± 7.4
TNW600	3.33 ± 0.03	31.4 ± 4.6
Pilkington	27.0 ± 0.1	47.0 ± 7.8