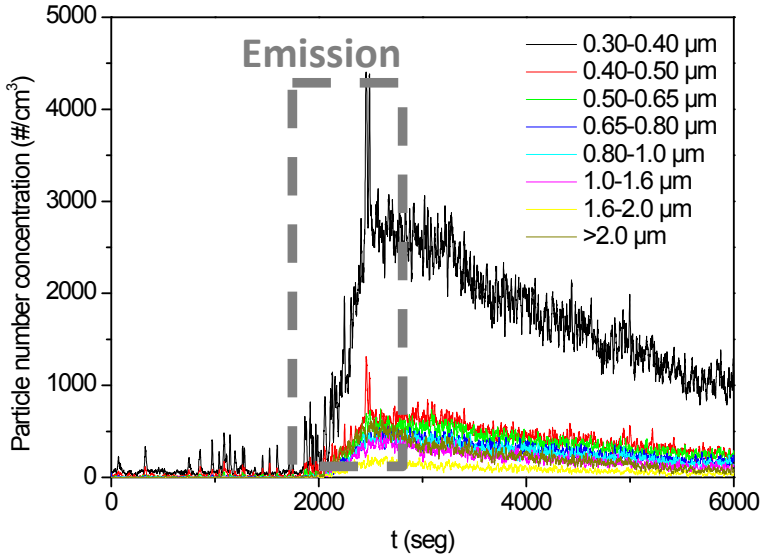
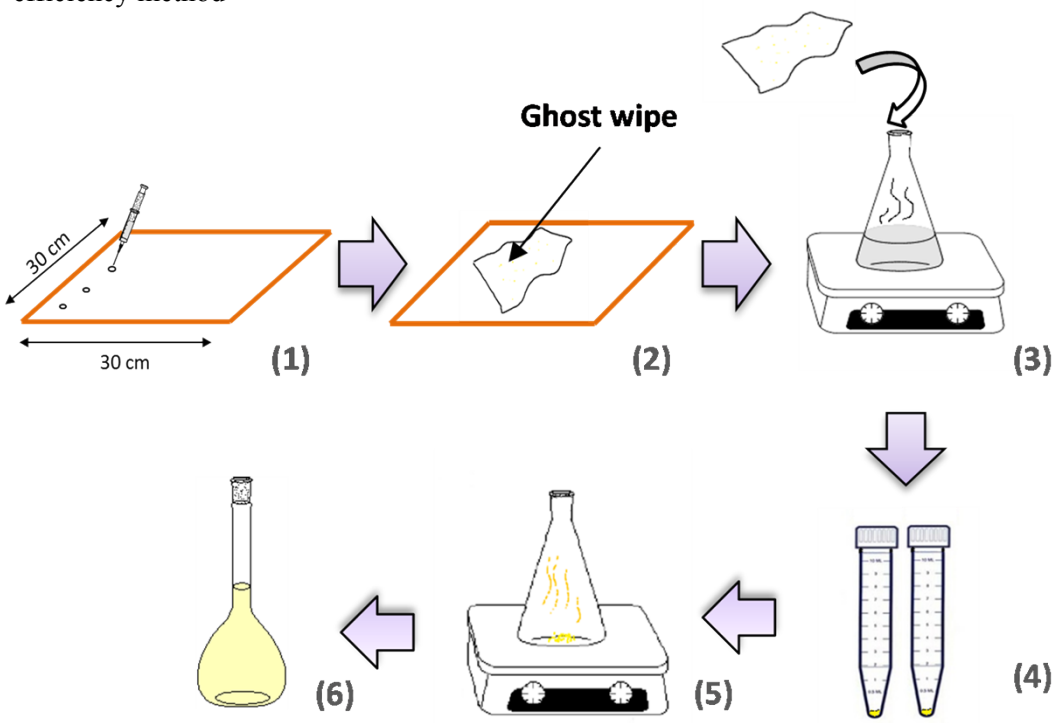
Electronic Supplementary Material (ESI) for Environmental Science: Nano.

Supplementary information

Supplementary Figure 1. Particle number concentration of emissions produced during a pouring experiment using an Optical Particle Counter (OPC).

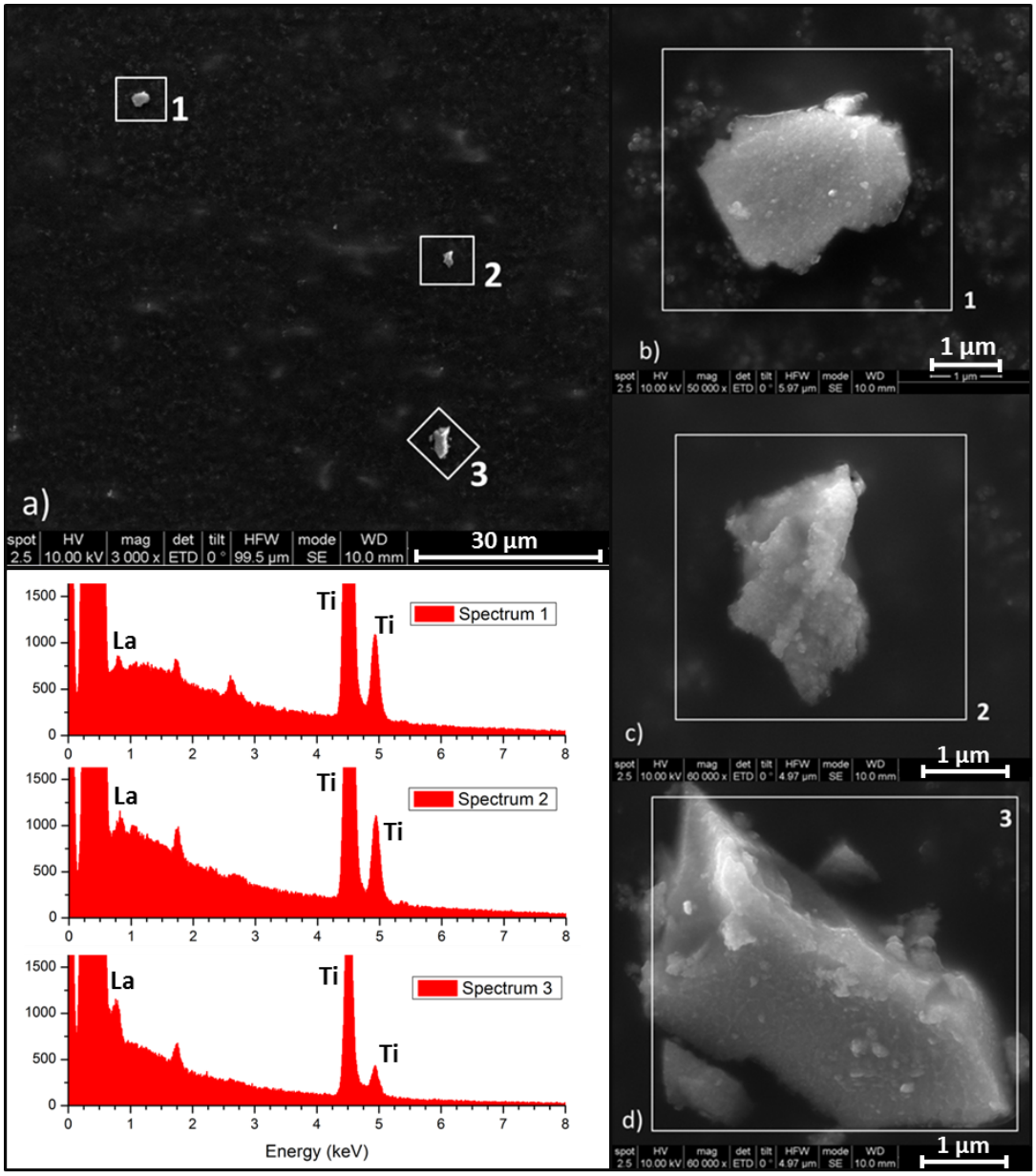


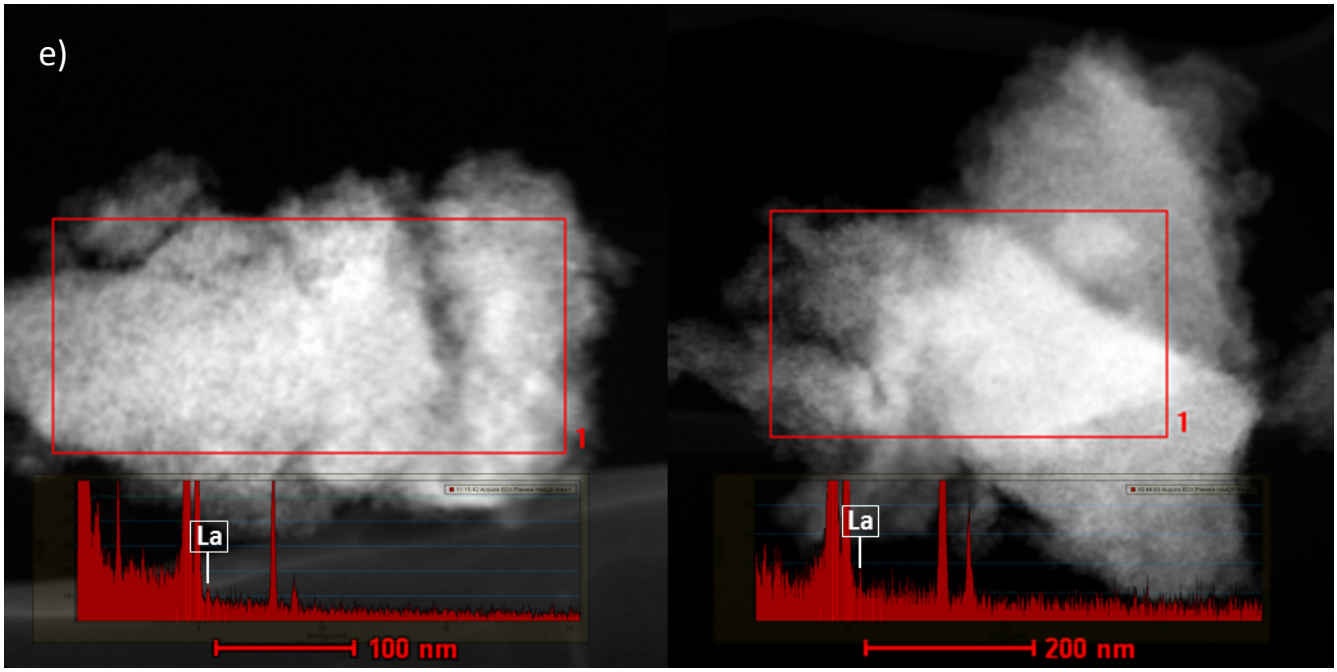
Supplementary Figure 2. Scheme of the nanoparticle surface contamination removal efficiency method



(1) *Particle deposition* (2) *surface cleaning* (3) *GW in hot water* (4) *centrifugation* (5) *digestion* (6) *ICP-OES analysis*

Supplementary Figure 3. a) SEM image of particles settled on a carbon tape placed at 10 cm away from the source during the manipulation of La/TiO_2 nanoparticulate powders; (b, c and d) Magnification of areas marked with1 and 2 and 3 in (a); insets show the EDX spectral analysis of the areas marked with 1, 2 and 3; e) STEM of the airborne matter collected by filtering the air around the manipulation area at 0.3 L·min^{-1} through a Cu grid during the manipulation of La-labelled TiO_2 nanoparticulate powders and EDX spectral analysis of the visualized area.




e)
1
La
100 nm
1
La
200 nm