Supplementary Information.

Fig. S1. FE-SEM imaging of complete cells dosed with ZnO nanoparticles. (A) SE imaging. (B)

LABE Imaging. (C) EDX mapping of Zn-KA. (D) Merge.



Fig. S2. Ultrastructural location of CeO₂ nanoparticles into macrophage cells. (A) DF-STEM

imaging. (B) BF-STEM Imaging. (C) YAG-BSE Imaging. (D) EDX mapping of Ce-LA.





imaging. (B) BF-STEM Imaging. (C) YAG-BSE Imaging. (D) EDX mapping of Ti-KA.



Fig. S4. Ultrastructural location of ZnO nanoparticles into macrophage cells. (A) DF-STEM

imaging. (B) BF-STEM region 1. (C) BF-SETEM region 2. (D) EDX mapping of Zn-KA.



Video S1. Stereoimaging of complete macrophage dosed with CeO₂ nanoparticles. SE imaging at 30 kV.

Video S2. Stereoimaging of complete macrophage dosed with CeO₂ nanoparticles. LABE Imaging at 30 kV.

Video S3. Stereoimaging of complete macrophage dosed with TiO₂ nanoparticles. SE imaging at 30 kV.

Video S4. Stereoimaging of complete macrophage dosed with TiO₂ nanoparticles. LABE Imaging at 30 kV.

Video S5. Stereoimaging of complete macrophage dosed with ZnO nanoparticles. SE imaging at 30 kV.

Video S6. Stereoimaging of complete macrophage dosed with ZnO nanoparticles. LABE Imaging at 30 kV.