Table S1: The EC_{25} , EC_{90} and EC_{50} values[†] and slopes (b) derived as parameter estimates from the model fits (Equation 2) for the as-synthesised Zn and Ag ENM and bulk metal soil exposures based on the total metal concentration in the soil and the earthworm body concentrations.

	Total soil concentration (mg/kg)				Earthworm body concentration (µg/g)			
	b	EC ₂₅	EC ₅₀	EC ₉₀	b	EC ₂₅	EC ₅₀	EC ₉₀
Zn bulk metal	3.3	185	310 ± 29	605	16.3	n.d.	159 ± 3.9	n.d.
Ag bulk metal	2.6	20	33 ± 5.2	74	6.03	5.6	7.4 ± 0.59	10.6
ZnO ENM ^a	4.1	413	780 ± 109	1926	3.9	146	210 ± 16.3	369
Ag ENM	1.5	35	97 ± 16.6	420	7.3	12.1	15 ± 0.9	22

 $\overline{^{\dagger}EC_{50}}$ value \pm standard error. αENM = engineered nanomaterials. n.d. = not determined

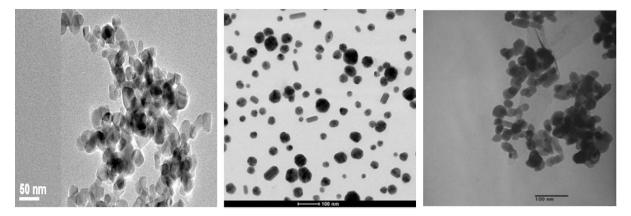


Figure S1: The TEM images of three different nanomaterials added to the influent of the pilot WWTP; $a = TiO_2$, b = Ag and c = ZnO (b&c from Ma *et al.* 2014).

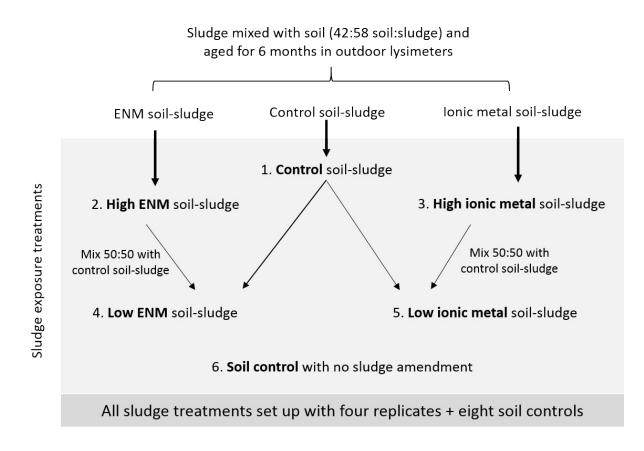


Figure S2