# Supplementary material:

## Nanoplastic Paradox: Unraveling the Complex Toxicity of Nano-sized Polyethylene

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Number of figures – 4

Number of pages - 5

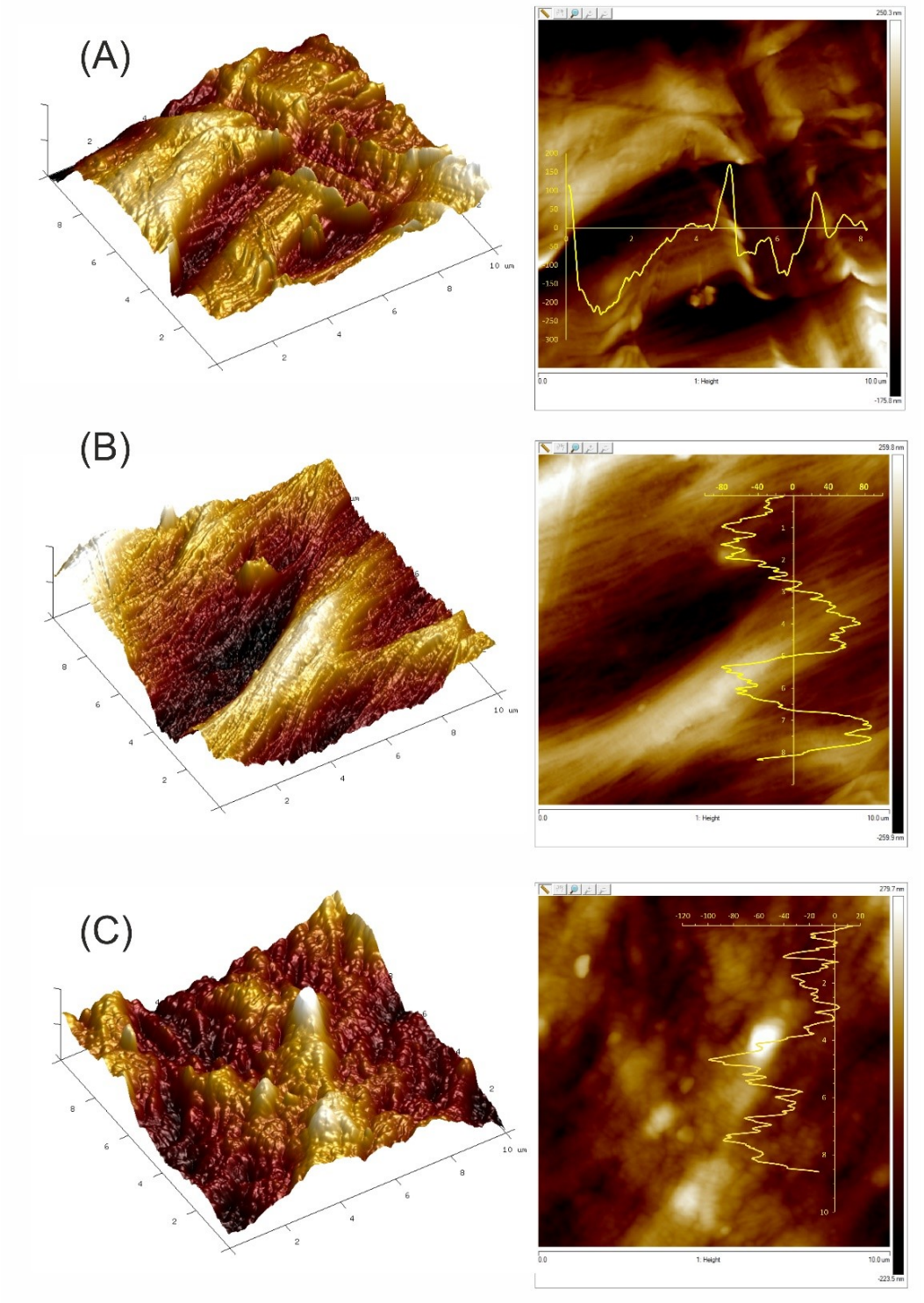


Fig. S1. AFM analysis of (A) initial PE sample and (B) after 3- and (C) 6h- oxidation under $O_3$.

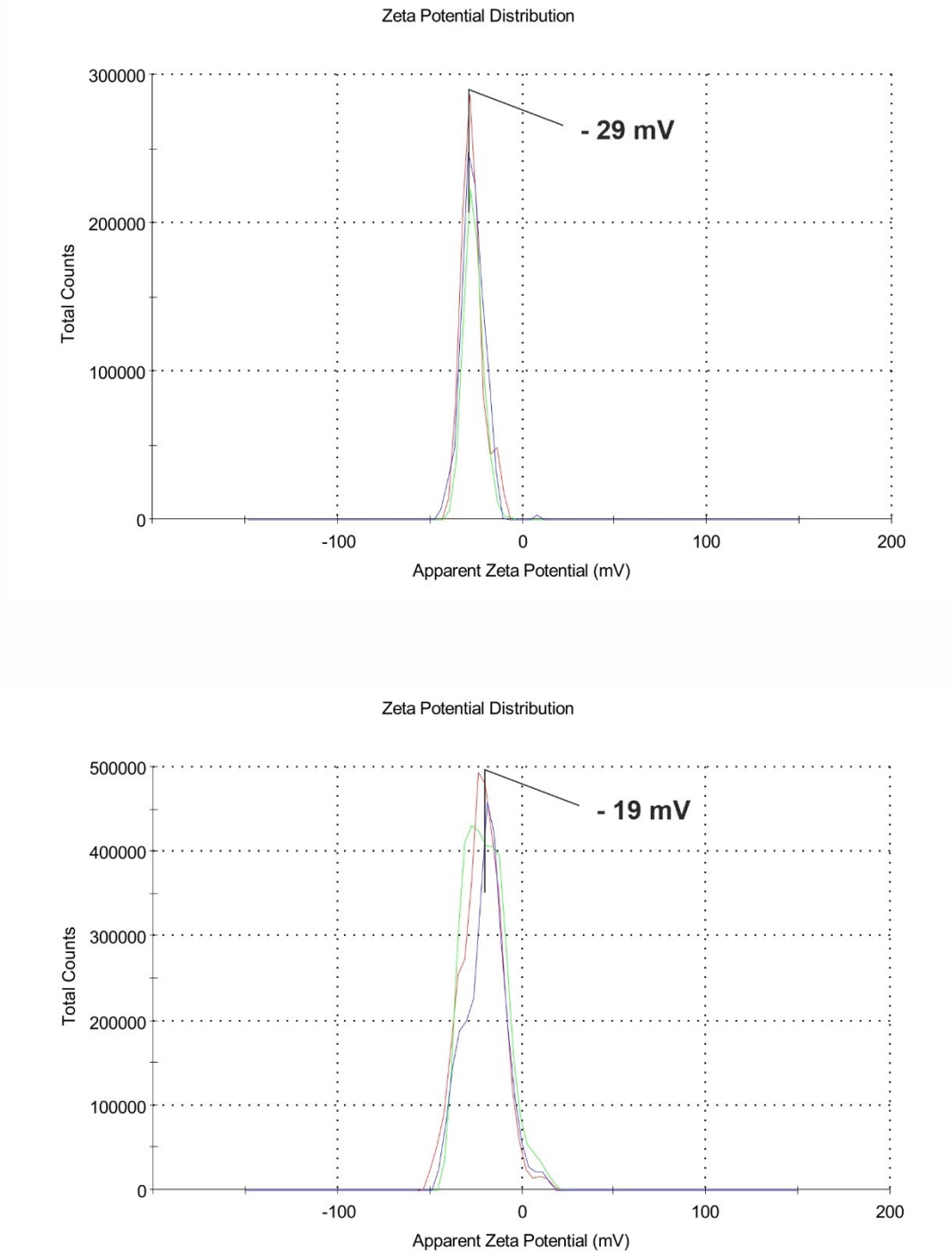


Figure S2. Zeta potential concentration dependance of nPE; upper panel 5mg/L bottom 500 mg/mL.

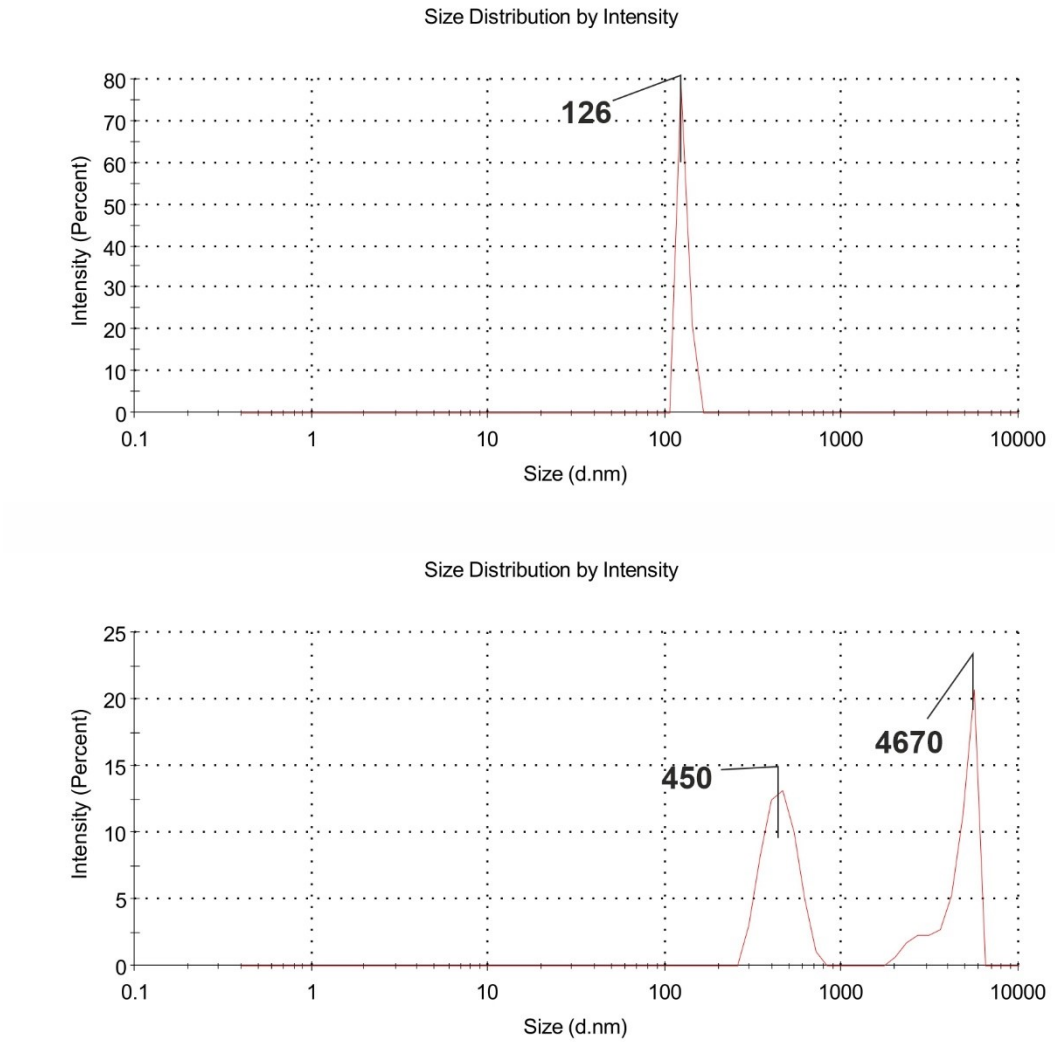


Figure S3. Size distribution concentration dependance of nPE; upper panel 5mg/L bottom 500 mg/mL.

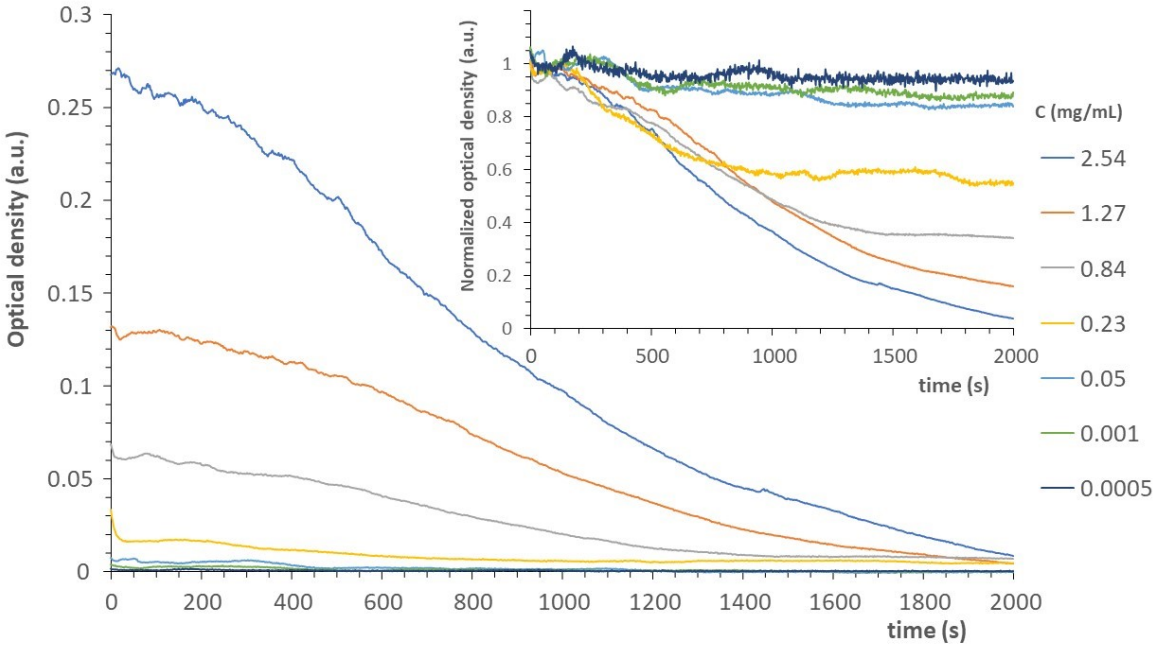


Figure S4. Time dependent changes in the optical density (OD) of nPE obtained after 10h exposition to $O_3$.