

Supplementary Information for

Copper-based water repellent and antibacterial coatings by aerosol assisted chemical vapour deposition

Ekrem Ozkan,^a Colin C. Crick,^b Alaric Taylor,^c Elaine Allan^d and Ivan P. Parkin^{*a}

^aMaterials Chemistry Research Centre, Department of Chemistry, University College London, 20 Gordon St, London, WC1H 0AJ, UK. Email: i.p.parkin@ucl.ac.uk, Tel: +44 (0)207 679 4669

^bDepartment of Chemistry, Imperial College London, South Kensington Campus, SW7 2AZ, UK

^cDepartment of Electronic and Electrical Engineering, University College London, Torrington Place, London, WC1E 7JE

^dDivision of Microbial Diseases, UCL Eastman Dental Institute, University College London, 256 Grays Inn Road, London, WC1X 8LD, UK

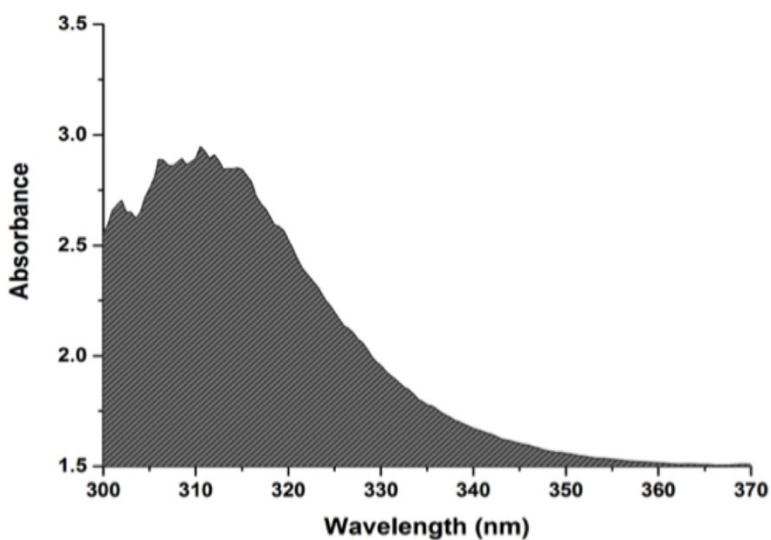


Fig. S1. UV-vis absorbance spectra of Cu-coated silicon polymer.

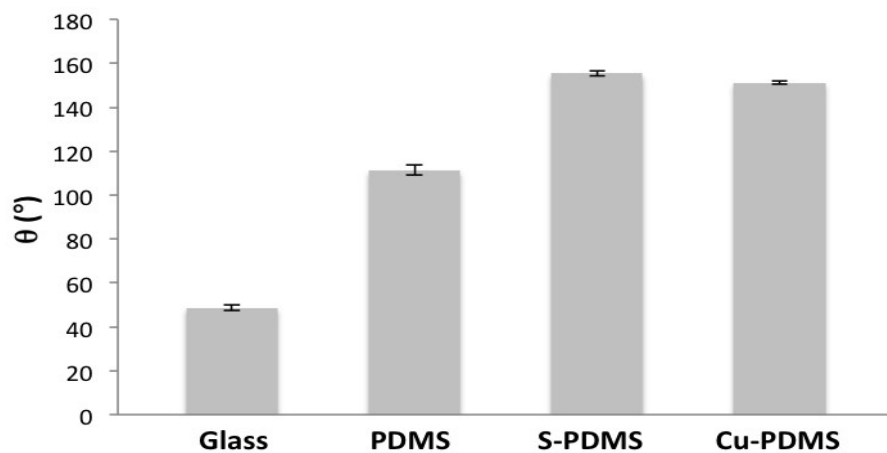


Fig. S2. Water contact angle of the samples. Error bars indicate standard deviations from five measurements.

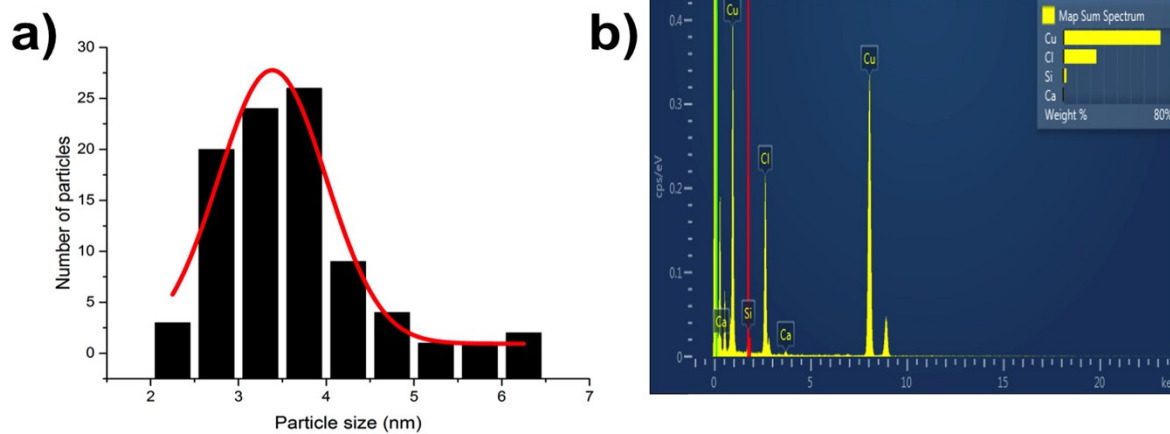


Fig. S3. (a) Particle size distribution histogram of colloidal Cu NPs. (b) energy dispersive X-ray spectrum of the Cu-PDMS composite.

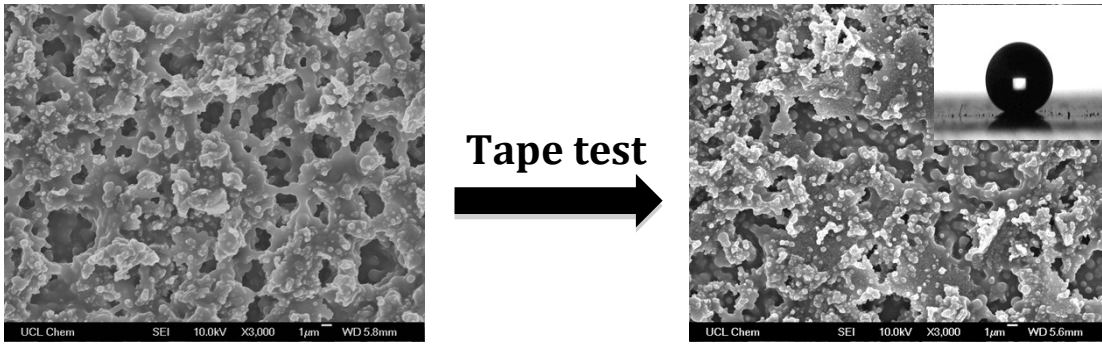


Fig. S4. SEM images of the Cu coated PDMS surface that was exposed to the tape test.