

Superhydrophobicity of Hierarchical ZnO Nanowire Coatings

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Supporting Information:

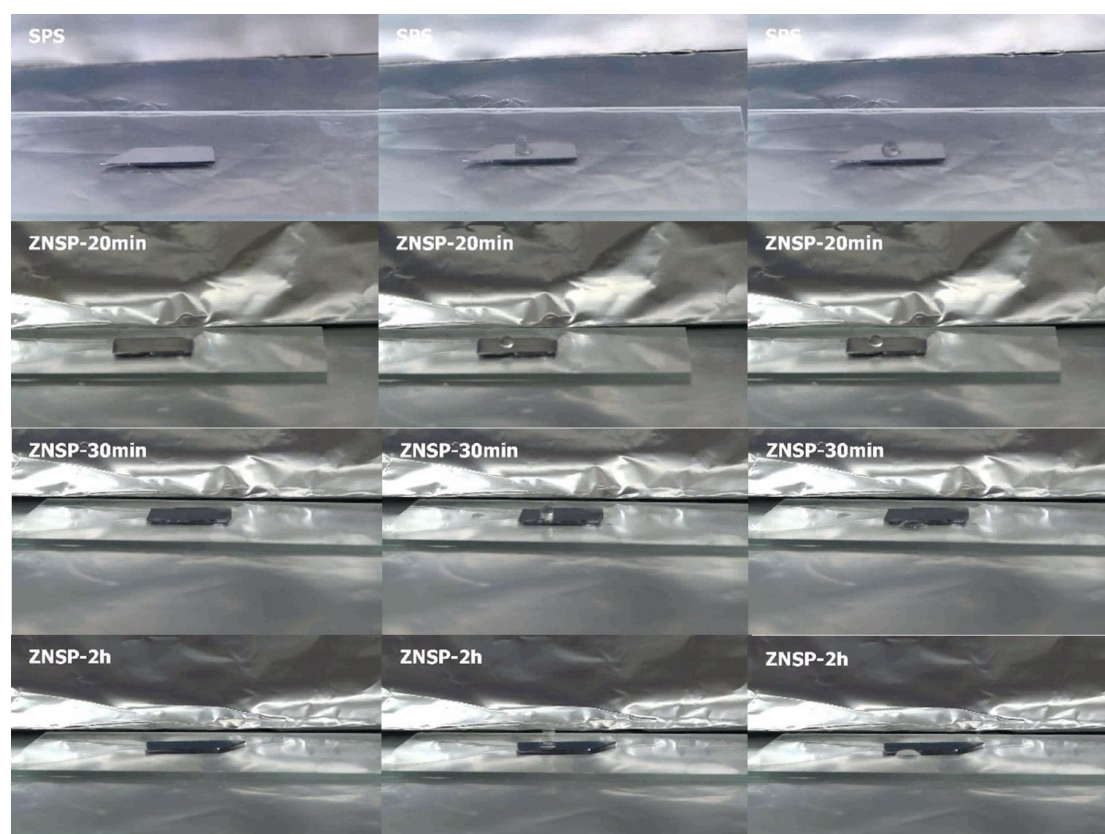


Figure S1. Slices of movie displaying the movement of a simulated raindrop on the different nano-scale hierarchical structure surfaces. 4 μ L water drops were released from rest at height of 5cm.

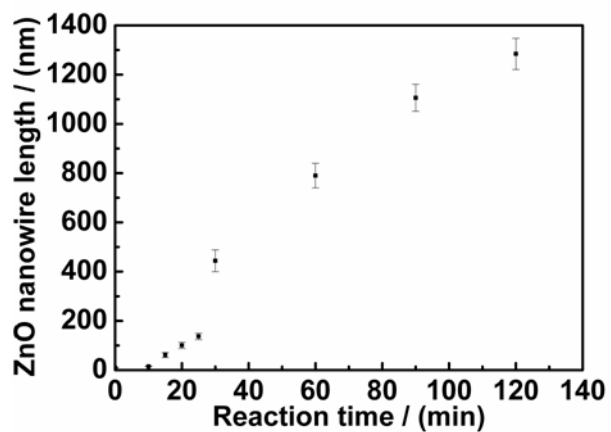


Figure S2. Relationship between ZnO nanowire length and growth time, with the variation range of the nanowire length indicated by the error bars.

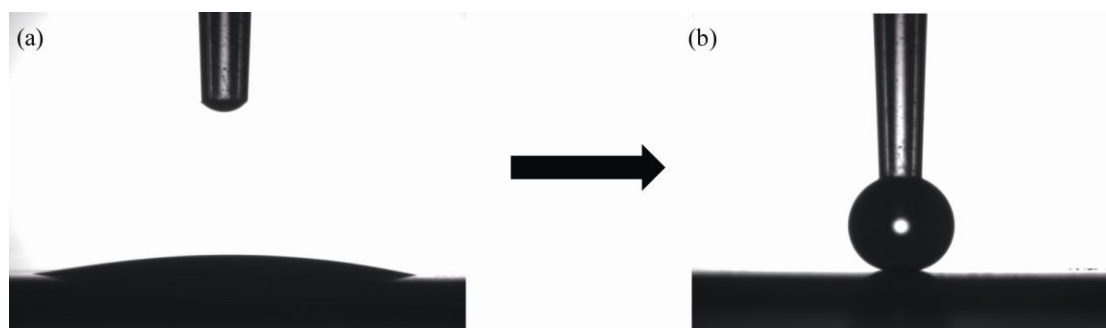


Figure S3. Water contact angle on the (a) as-grown ZNSPs-30min and (b) ZNSP-30min modified by PFOS, respectively.

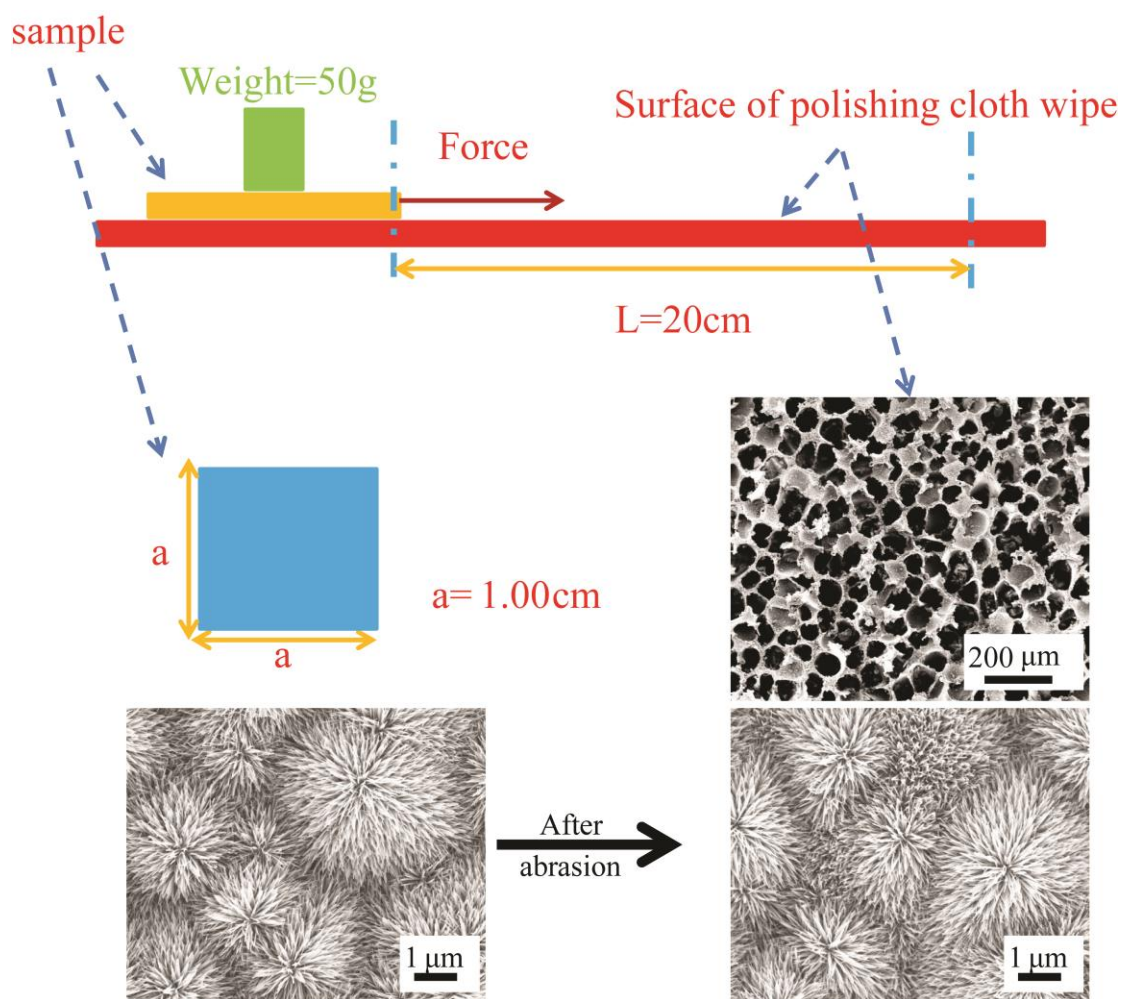


Figure S4. Schematic of the abrasion test employed to evaluate robustness of hierarchical ZnO nanowires coatings. Inset: SEM images of the surface morphology of polishing cloth and ZnO nanowires/Si micro-pyramids surface before and after abrasion.