

### Chemically Modified ZnO Nanoparticles and its properties

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We investigated the fabrication method of superhydrophobic nanocoating prepared by a simple spin-coating and the chemisorption of fatty acid. The resulting coating has a static water contact angle of  $154^\circ$ . We observed the effect of carbon lengths of Self-Assembled Monolayer(SAM) on hydrophobicity and the thermal stability of SAM on ZnO nanoparticles.