

Supporting Information

Title: The effect of Ar/O₂ and H₂O plasma treatment of SnO₂ nanoparticles and nanowires on carbon monoxide and benzene detection

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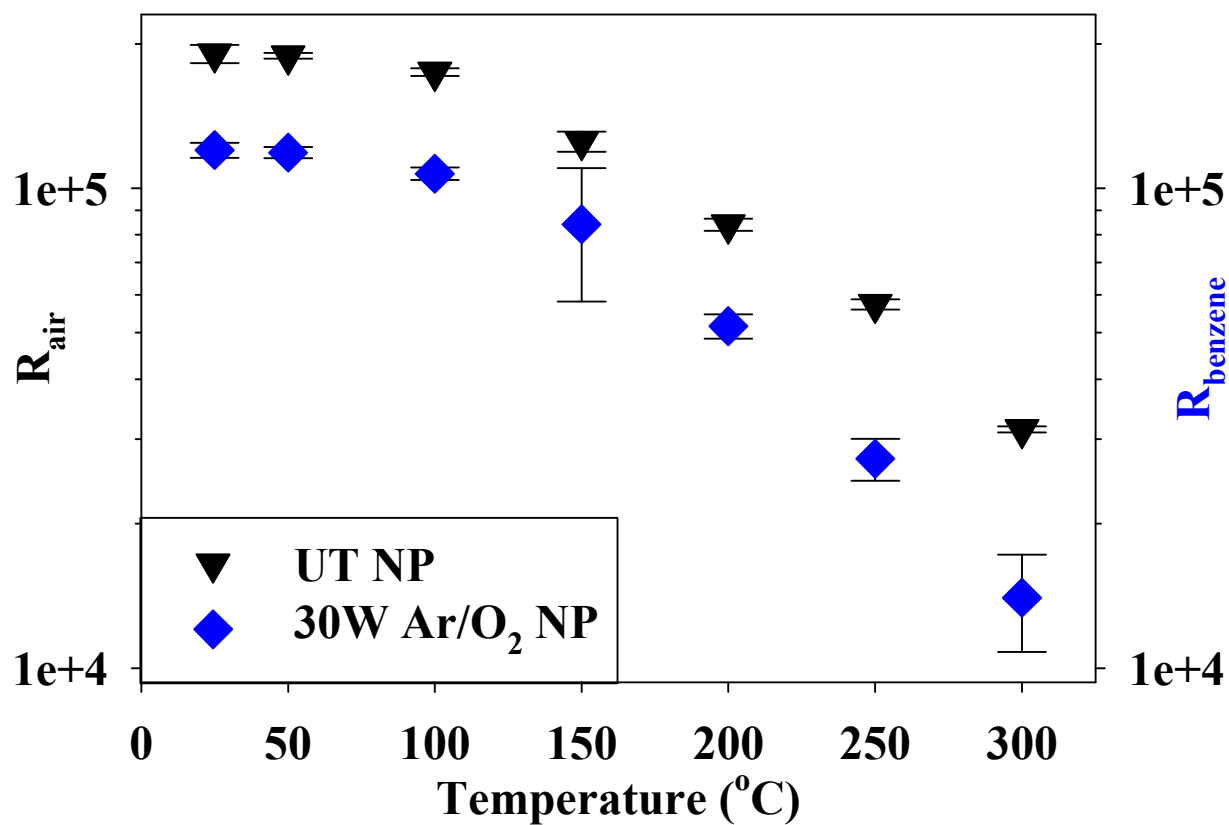


Figure S1. Sensor response as a function of temperature tested on two separate occasions. An untreated nanoparticle sensor was tested following our procedure once on each of two consecutive days (black triangles). A 30W Ar/O₂ NP sensor was tested once on two separate days months apart (blue diamonds).

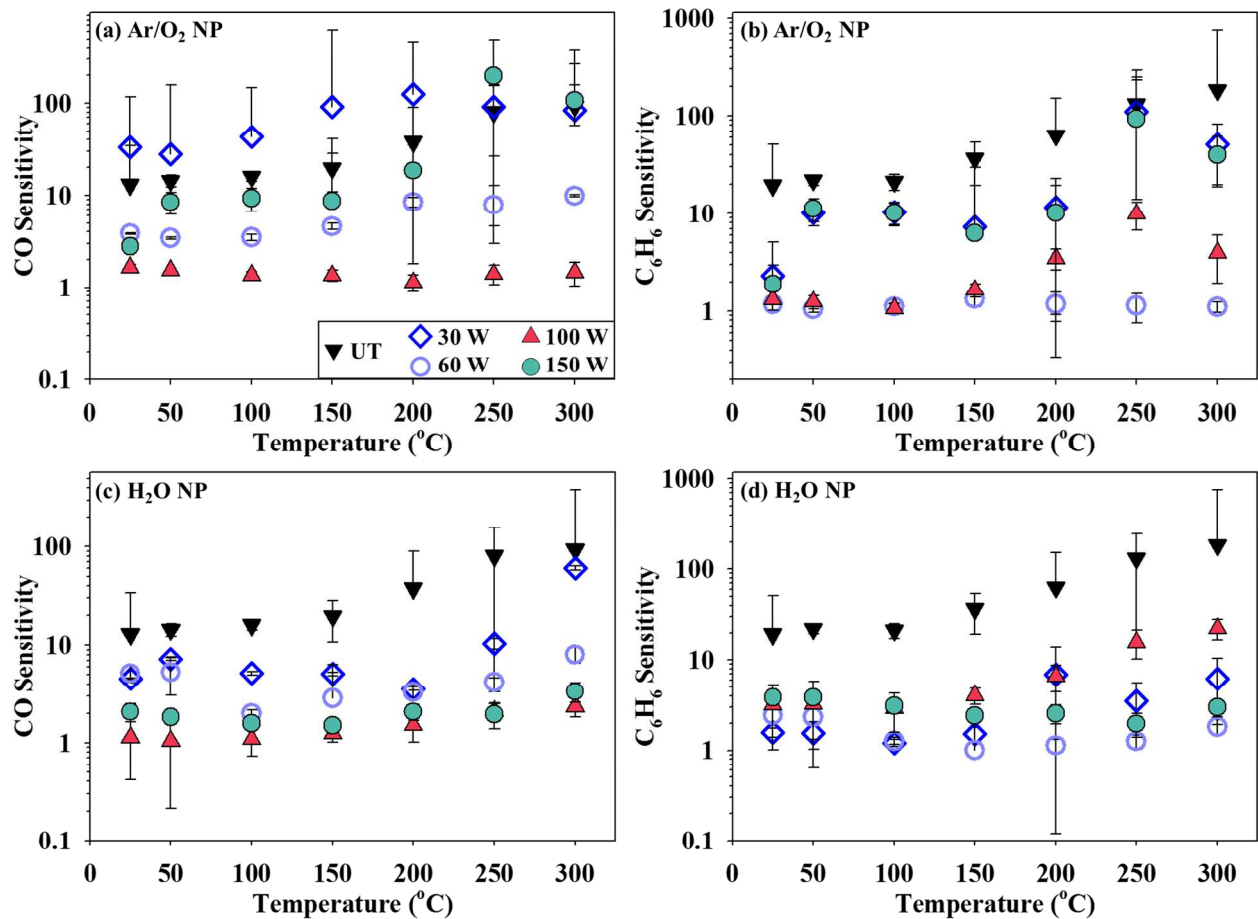


Figure S2. Gas sensor sensitivity for Ar/O₂ NP (a) in CO and (b) C₆H₆; and sensitivity for H₂O NP (c) in CO and (d) C₆H₆ as a function of T_s and P . Negative error not shown on plots are equivalent to positive error shown.

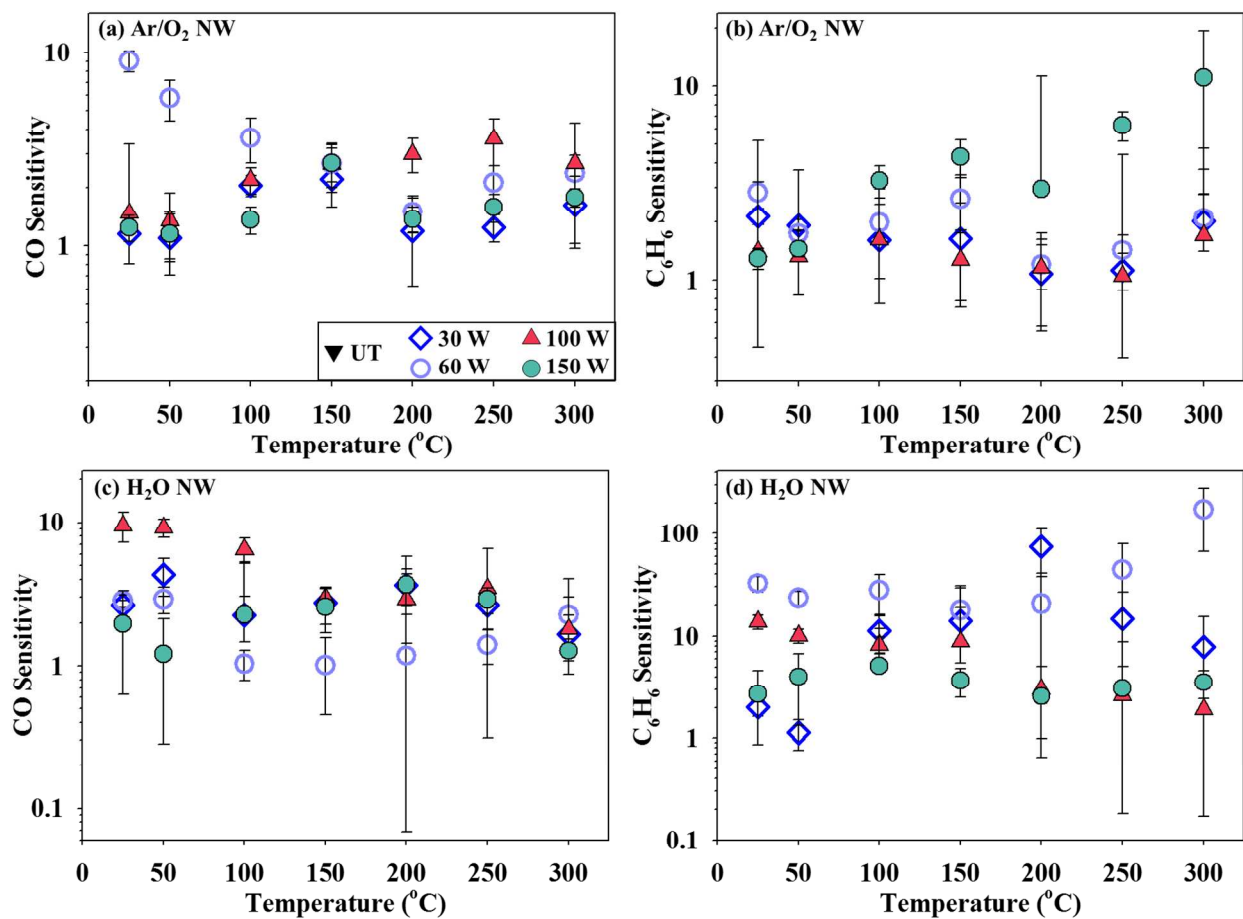


Figure S3. Gas sensor sensitivity for Ar/O₂ NW (a) in CO and (b) C₆H₆; and sensitivity for H₂O NW (c) in CO and (d) C₆H₆ as a function of T_s and P . Negative error not shown on plots are equivalent to positive error plotted.