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Huazhong University of Science and Technology, China.

The gas-sensing performance of a core-shell SnO_2 -based chemiresistive MEMS sensor for H_2S detection under vacuum

Utilizing the selective adsorption of H_2S gas by SnO_2 microspheres, the direct reaction between Ag_2O nanoparticles and H_2S gas adsorbed on the surface of SnO_2 microspheres was achieved. The "adsorption coupled with reaction" concept for gas sensing reaction was introduced, which could potentially be utilized in gas detection for deep space exploration.

As featured in:



See Wei Luo *et al.*,
J. Mater. Chem. C, 2023, **11**, 12517.