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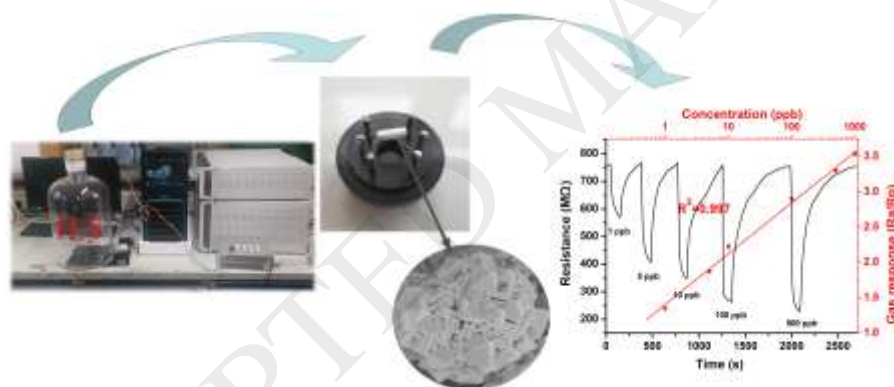
# Enhanced H<sub>2</sub>S gas-sensing performance of Zn<sub>2</sub>SnO<sub>4</sub> hierarchical quasi-microspheres constructed from nanosheets and octahedra

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*Graphical abstract*



## Highlights

- The Zn<sub>2</sub>SnO<sub>4</sub> hierarchical microspheres constructed from nanosheets and octahedra were firstly synthesized.
- The sensor exhibits high response to H<sub>2</sub>S at 133 °C with the detection limit being 1 ppb.
- The sensor exhibits satisfactory repeatability, high selectivity, humidity resistance and long-term stability.

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