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Ultra-sensitive sensing platform based on Pt-ZnO-In₂O₃ nanofibers for detection of acetone

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Highlights

- A new type of sensitive materials of Pt-ZnO-In₂O₃ nanofibers (NFs) by dispersing Pt loaded ZIF-8 (Pt@ZIF-8) nanoparticles in PVP/In(NO₃)₃ precursors is designed.
- The average sizes of Pt nanoparticles obtained in this work are only ~3 nm.
- Gas sensing investigations indicate that the sensor based on Pt-ZnO-In₂O₃ nanofibers exhibit the superior acetone response at 300 °C.

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