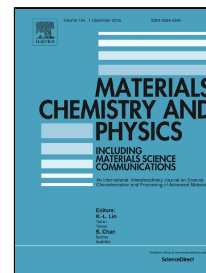


# Accepted Manuscript

Porous LaFeO<sub>3</sub> or SnO<sub>2</sub> nanocomposite film for CO<sub>2</sub> detection with high sensitivity

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**Highlights**

- The new composites composed of p-type LaFeO<sub>3</sub> and n-type SnO<sub>2</sub> were first attempted.
- An enhanced sensitivity for CO<sub>2</sub> detection is obtained at a relatively low temperature.
- A quite short response time is achieved at the same time.
- The mechanism of the enhanced performance concerning as-formed P-N junctions in the interfaces was investigated.

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