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## ACCEPTED MANUSCRIPT

Structure-driven efficient NiFe<sub>2</sub>O<sub>4</sub> materials for ultra-fast response electronic sensing platform

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# **Graphical Abstract**

A Structure-driven sensing performance gas sensor based on double layer hollow NiFe<sub>2</sub>O<sub>4</sub> core-shell nanospheres with a rapid response rate within 1 s and alluring long-term stability.

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