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Highlights

- Graphene oxide/tin dioxide/polyaniline (GO/SnO₂/PANI) nanocomposite-based QCM humidity sensor was fabricated.
- QCM sensing properties of GO/SnO₂/PANI nanocomposite toward humidity were investigated.
- The sensing mechanism and Langmuir adsorption model of GO/SnO₂/PANI film was discussed.

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