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Sensitivity of Nanocrystalline Tungsten Oxide to CO and Ammonia Gas Determined by Surface Catalysts

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Highlights

- Nanocrystalline tungsten oxide modified by Pd and Ru was obtained
- Effect of WO₃ particle size and modification on surface sites is evaluated
- Blank WO₃ interacts with the gases distinctly from the modified samples
- Sensing behavior of modified WO₃ is determined by the catalytic additives
- Modification by Pd, Ru makes surface chemistry of different oxides similar

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