

## 氧化钯作为电位型传感器中敏感电极的工作机理

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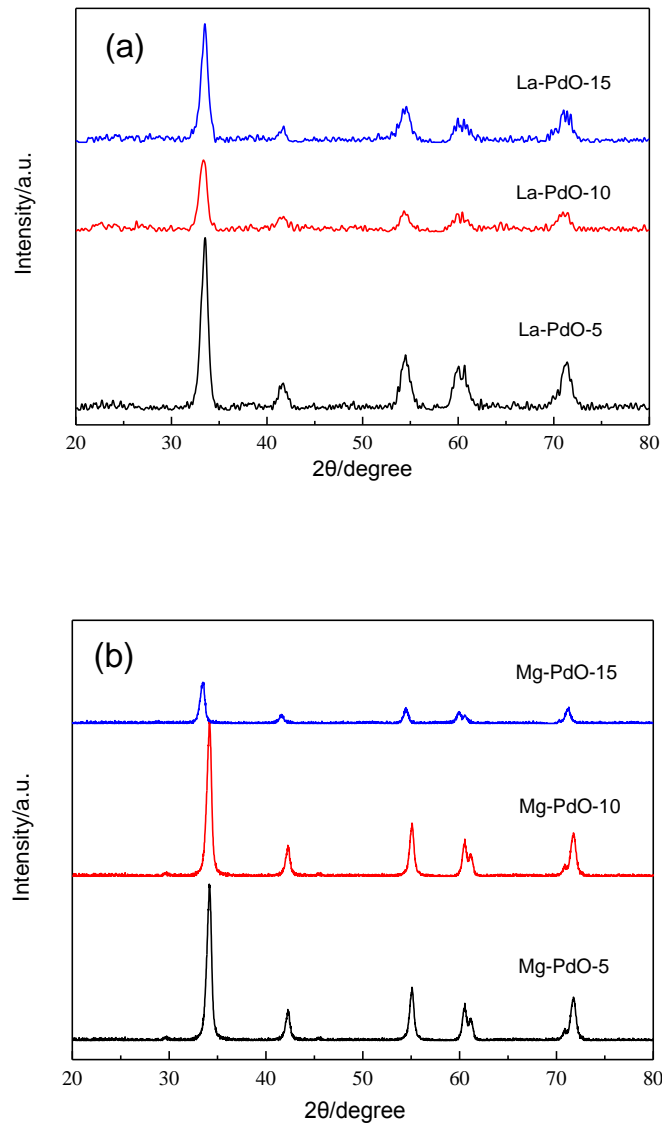
## Operating Mechanism of Palladium Oxide as a Potentiometric Sensing Electrode

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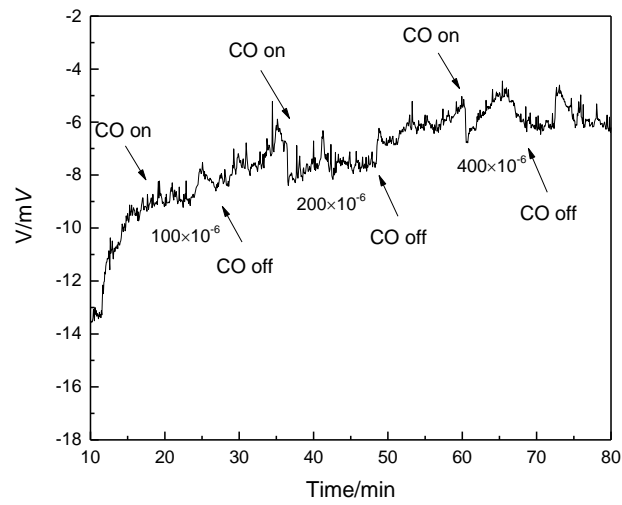
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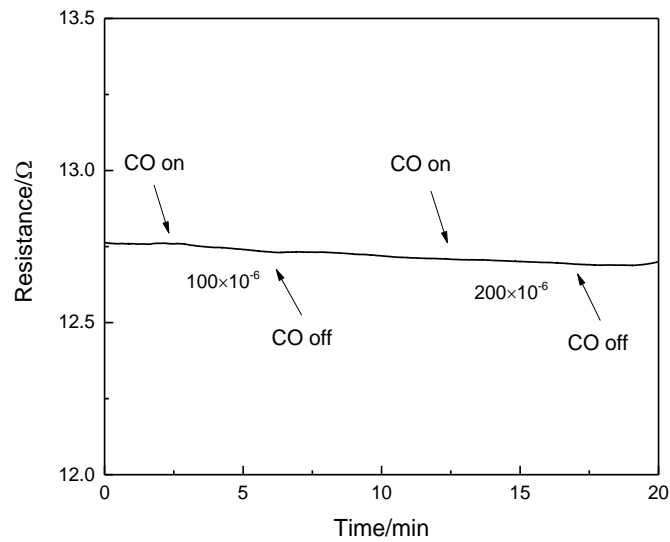
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**Fig.S1 XRD patterns of (a) La-doped PdO and (b) Mg-doped PdO**



**Fig.S2 Electric potential change for sensor coupled with the Ni-PdO-5 electrode and alumina disc to  $100 \times 10^{-6}$ ,  $200 \times 10^{-6}$  and  $400 \times 10^{-6}$  (volume fraction) CO balanced by 5%  $O_2$  and  $N_2$  at 450 °C**



**Fig.S3 Resistance change of Ni-PdO-5 material to  $100 \times 10^{-6}$  and  $200 \times 10^{-6}$  (volume fraction) CO balanced by 5%  $O_2$  and  $N_2$  at 450 °C**