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A spontaneous change in the oxidation states of Pd/WO<sub>3</sub> toward an active phase during catalytic cycles of CO oxidation

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**Highlights**

- CO oxidation rate over Pd/WO<sub>3</sub> depends strongly on the oxidation states of Pd and WO<sub>3</sub>.
- The most active phase is a mixture of Pd and PdO supported on WO<sub>3-x</sub> with W<sup>5+</sup>.
- The role of WO<sub>3</sub> as a reversible oxygen storage is suggested.

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