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Oxygen adsorption on palladium monolayer as a surface catalyst

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Highlights

- We have covered the adsorption of oxygen atoms on palladium monolayer for oxidation rich processes.
- The adsorption energies on the palladium monolayer were analyzed by charge transfer mechanism.
- The coverage area and work function increases due to the number of oxygen adatoms increase till $6\text{O}/18\text{Pd}$ adatom after increasing oxygen it will repel.
- The oxidation coverage taking place and it has been extensively studied for the catalyst applications.

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