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Title: Electronic properties of photocatalytic improved Degussa P25 titanium dioxide powder

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Highlights:

Redistributing oxygen defects in TiO_2 during mild heat treatment up to 400°C .

Resistive switching in low-defected TiO_2 powder can be observed in vacuum atmosphere.

During annealing oxygen atmosphere suppress an enhanced charge carrier transport.

Conductive state is correlated with surface/interface charge carrier trapping sites.

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