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METAL ADSORPTION ON THE SURFACE OF TITANIUM DIOXIDE FILM

The absorption of metal on the surface of titanium dioxide was calculated by ab initio calculation. Band structure and density of states are analyzed. The oxygen atoms on the surface are reactive. Metal atom and oxygen atoms can form chemical bonds. The bonding strength is related to the thickness of film. Metal induced magnetism is found. The induced magnetic moment varies with the distance between metal and film.

Section

Energy and materials science (Section 2)

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