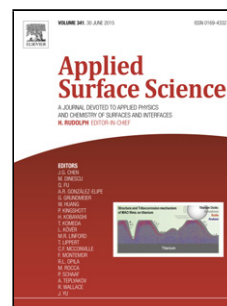


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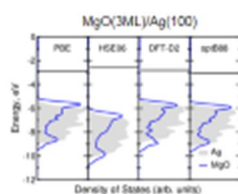
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Graphical abstract



Highlights

Characteristics of Ag-supported MgO(100) films are studied with different DFT functionals

All approaches predict a similar nature of supported pristine and oxygen-deficient films

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