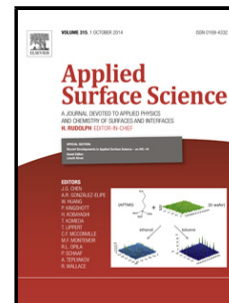


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Theoretical study of support effect of Au catalyst for glucose oxidation of alkaline fuel cell  
anode

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### Research Highlights

The catalytic activity of Au in alkaline solution is studied theoretically.

Carbon and oxide materials are used to estimate support effect for glucose oxidation.

The glucose oxidation on SnO<sub>2</sub>(110) supported Au catalyst shows high activity.

The charge transfer from Au catalyst to support materials is dominant.

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