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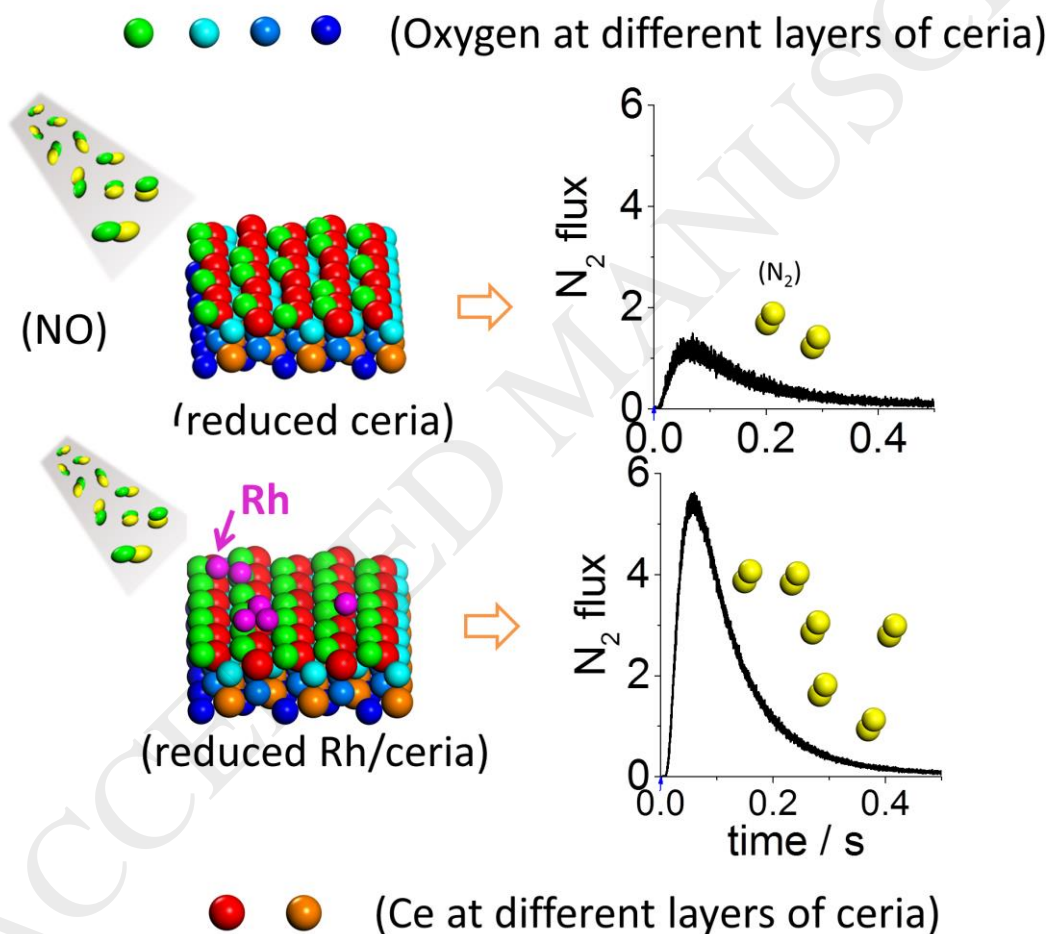
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**Graphical abstract****Highlights**

- Noble metals, especially Rh promoted the rate and degree of ceria reduction by hydrocarbons.

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