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Title: Effect of Ce modification on the structural and catalytic property of Co-Mo/Mg(Al)O catalyst for water-gas shift reaction

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# Effect of Ce modification on the structural and catalytic property of Co-Mo/Mg(Al)O catalyst for water-gas shift reaction

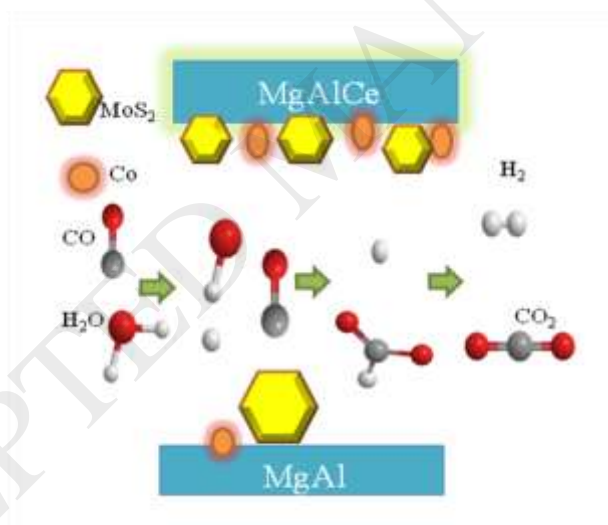
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## Graphic abstract



The more and smaller-sized MoS<sub>2</sub> which is active for the water gas shift reaction was formed on the Co-Mo/Mg(Al)O-Ce(5%) catalyst than Co-Mo/Mg(Al)O catalyst.

## Highlights

- The addition of Ce to Co-Mo/Mg(Al)O catalyst enhances the WGS activity.
- The highest activity is obtained on the catalyst modified with 5%Ce.

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