

## Accepted Manuscript

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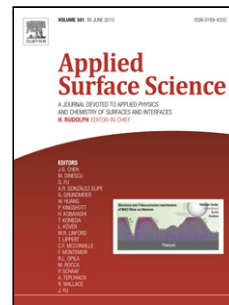
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### Highlights

- Various rare earth (RE)-doped ZnO/KIT-6 sorbents were prepared via sol-gel method.
- La showed the highest efficiency on promoting ZnO/KIT-6 desulfurization activity.
- The morphology of ZnO on KIT-6 played a crucial role for the reactivity.
- The most initial factor of improving reactivity by RE was surface chemical property.
- Crystallinity, host-guest interaction were also important to ZnO state on support.

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