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Title: Nanocomposite $\text{LaFe}_{1-x}\text{Ni}_x\text{O}_3$ /Palygorskite catalyst for photo-assisted reduction of NO_x : Effect of Ni doping

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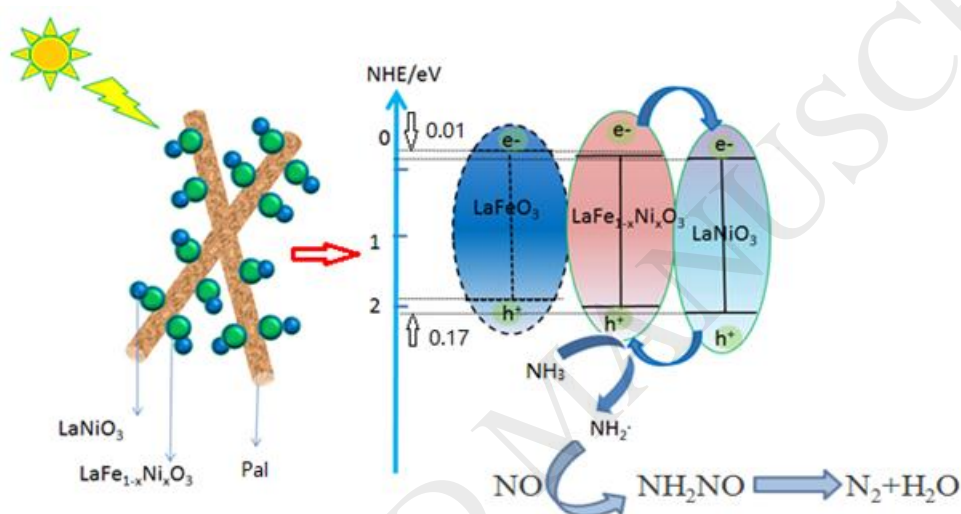
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Graphical Abstract



Highlights

- $\text{LaFe}_{1-x}\text{Ni}_x\text{O}_3$ /Pal nanocomposites were successfully synthesized by a facile sol-gel method.
- $\text{LaFe}_{0.5}\text{Ni}_{0.5}\text{O}_3$ /Pal catalyst achieved 92% of NO_x conversion rate at the low temperature.
- Ni doping result in the tuning of the band gap and forming the coherent heterojunction.

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