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ACCEPTED MANUSCRIPT

Synergy between Ag nanoparticles and Yttria-Stabilized Zirconia for soot oxidation

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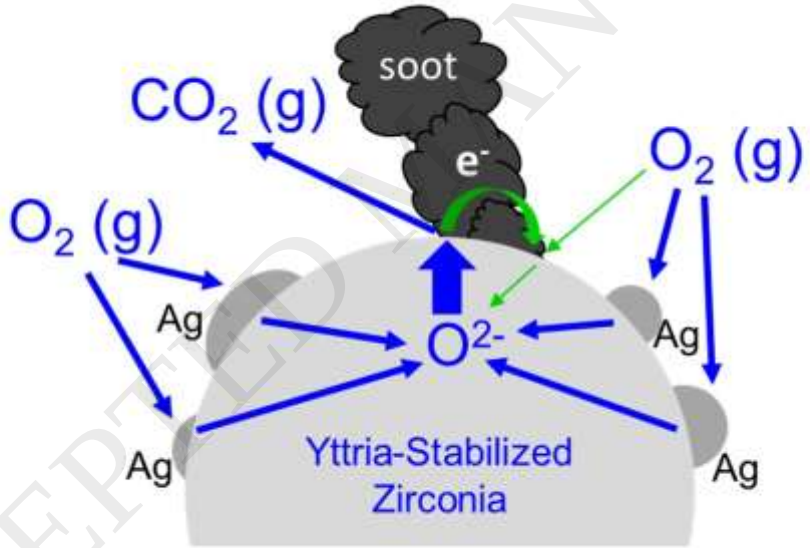
Graphical Abstract



Highlights

- Ag/YSZ catalysts show high and stable activity for low Ag loadings
- CO_2 produced by soot combustion participates in the oxygen exchange process
- Isotopic experiments prove that bulk YSZ oxygen species are active for soot oxidation
- Ag promotes the dissociative adsorption and lattice integration of gaseous oxygen

Abstract

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