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Perspective intermediate temperature ceria based catalysts for CO oxidation

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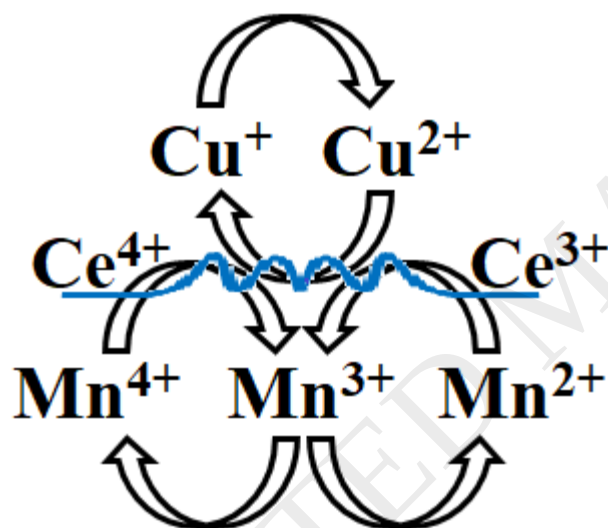
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Graphical abstract



Highlights

- Cu-Mn-Zr-Ce-O solid solutions were prepared
- Catalytic properties for CO oxidation in model reaction were investigated
- The optimum catalyst composition was $\text{Cu}_{0.08}\text{Mn}_{0.02}(\text{Zr}_{0.1})\text{Ce}_{0.9}\text{O}_2$

Abstract

The work is focused on the investigation of the influence of ternary metal oxide promoted ceria based materials (Cu-Mn-Zr-Ce-O) with various Cu/Mn molar ratios on the physicochemical and catalytic properties for CO oxidation in model reaction. It is shown that no diffraction peaks corresponding to copper and/or manganese oxides were indicated, ensuring the formation of solid

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