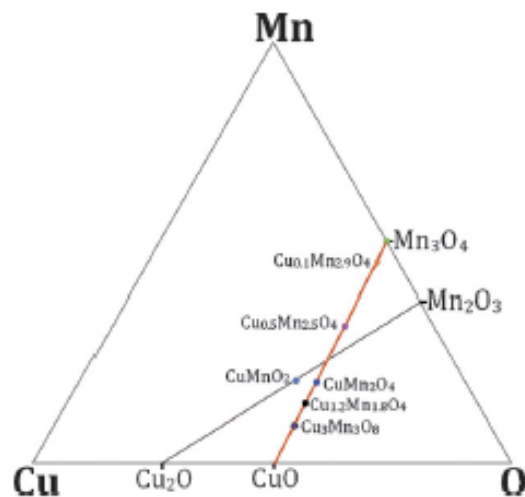

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**Examining the Cu–Mn–O Spinel
System as an Oxygen Carrier in
Chemical Looping Combustion**



A promising spinel: We report the performance of spinels of the general formula Cu_xMn_{3-x}O₄ in the Cu–Mn–O system as oxygen carriers in the chemical-looping combustion (CLC) of CH₄ for the efficient and direct separation of CO₂. In light of the facile reversibility of various phases (see image), it can be concluded that Cu–Mn–O spinels are effective oxygen carriers for CLC and related applications.
