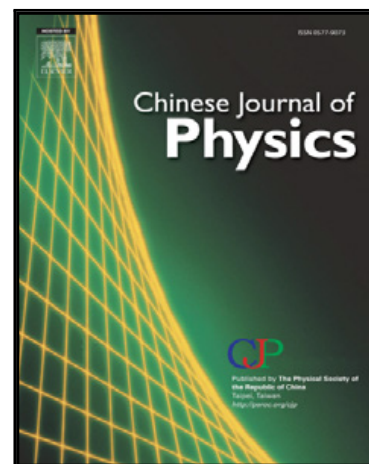


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Effects of Ag₂O nanoparticles addition on electrical conductivity and microhardness properties of polycrystalline YBa₂Cu₃O_{7-δ}

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Highlights

- The Ag_2O and $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ nanoparticles are mixed via solid state reaction.
- The Ag has incorporated in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ structure for samples with > 3.0 wt. % Ag_2O .
- Additions of Ag_2O has improved the RT electrical conductivity of the samples.
- T_c of the ≤ 3.0 wt. % Ag_2O added samples is slightly exceeded the pure $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$.
- Microhardness of the samples is reduced due to agglomeration of Ag_2O .

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