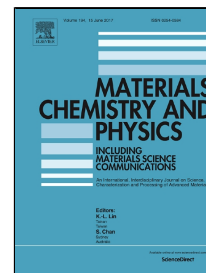


# Accepted Manuscript

Effects of Cobalt Substitution on the Physical Properties of the Perovskite Strontium Ferrite



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**RESEARCH HIGHLIGHTS**

- The lattice constants are decreases with the increase of Co concentration
- Electronic band profiles reveal that all these compounds are conductors
- The electrical resistivity increases with the increase of Co concentration
- The magnetic interaction is anti-ferromagnetic for pure SrFeO<sub>3</sub> whereas ferromagnetic for all the Co substituted compounds

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