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Investigation of structural and electrical properties of NdFeO₃ perovskite nanocrystalline

Jada Shanker, G. Narsinga Rao, Kasarapu Venkataramana, D. Suresh Babu

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Highlights

- Sol-gel auto-combustion process has been employed to prepare NdFeO₃ perovskite nanocrystalline compound.
- Single phase orthorhombic symmetry with Pbnm space group.
- P-E loop of NdFeO₃ nanocrystalline material have shown ferroelectric behaviour.
- Impedance data indicating the negative temperature coefficient of resistance (NTCR) nature.
- NdFeO₃ material is a potential candidate in ferroelectric and gas sensing device applications.

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