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Hysteresis loops and dielectric properties of a mixed spin Blume–Capel Ising ferroelectric nanowire

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Highlights

- The mixed spin-(1/2, 1) Ising nanowire system is investigated.
- The Monte Carlo simulation is used.
- Dielectric properties and the hysteresis behavior of the system are studied.
- The effect of the surface shell on the system is investigated.
- The effect of the core/shell exchange coupling is studied.

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