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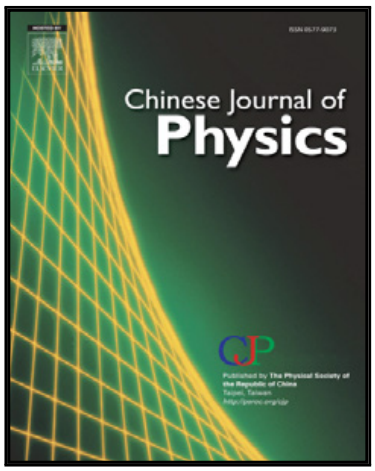

Introducing $ZrFe_2O_5$ nanopowders for hyperthermia applications

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Highlights

- Zirconium ferrite was synthesized via mechanical milling and subsequent sintering process.
- Zirconium ferrite nanoparticles experienced a single domain state when their size reach 35nm.
- Monodisperse nanoparticles had a higher value of SAR in comparison with monodisperse ones.
- The ratio of the anisotropy energy to the thermal energy, can have a key role in the SAR.

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