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Facile synthesis, characterization and magnetic properties of manganese ferrite/carbon composites

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Highlights

- $\text{MnFe}_2\text{O}_4/\text{C}$ composites were prepared by decomposition of $\text{Mn}(\text{NO}_3)_2\text{-Fe}(\text{NO}_3)_3\text{-PVA}$ gels
- The redox interaction between nitrate ions and PVA was evidenced at around 100°C
- The phase composition of the samples was influenced by the annealing conditions
- The saturation magnetization of the composites was correlated with the PVA content

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