

# Elaboration et caractérisation des nanoparticules Ferrite/ Mg/Mn par co-précipitation

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**Soutenu en: 2022**

**Abstract:** Nanosciences and nanotechnologies have experienced great growth over the past fifteen years, thanks to the development of new tools for elaboration, observation and analysis. This thesis focuses on the development of iron-based nanoparticles by the coprecipitation method with an experimental protocol and under different temperature and pH conditions. The characterization of the phases was carried out by X-ray diffraction, Infrared spectroscopy with Fourier Transform FTIR and Ultraviolet-visible spectroscopy.

**Keywords :** Nanosciences and nanotechnologies, iron-based nanoparticles, X-ray diffraction