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Synthesis and characterization of CuxSixFe2-2xOspinnelferrites produced by the ceramic technic4

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Abstract: Spinel copper ferrites Cu1+xMxFe2-2xO(M=Si) with(0.2 x 0.5) were synthesized by the double sintering ceramic4technique and characterized using X-ray diffraction VSM andSEM, diffraction patterns show that all samples have a singlephase.the magnetic properties of the nanocomposites wereinvestigated, the scanning electron microscope (SEM) with EDSanalyser were performed to show micrographs aggregates and confirm the stoichiometry of the compound.

Keywords: Cu-Ti Ferrites, Spinel, XRD, VSM, SEM, EDS