PHASE COMPOSITION AND ELECTRON STRUCTURE OF (Co₄₁Fe₃₉B₂₀)_{1- x}(SiO₂)_x NANOCOMPOSITES

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Granulated $(Co_{41}Fe_{39}B_{20})_{1-x}(SiO_2)_x$ nanocomposites with different content of metal phase, determining nonlinear dependence of magnetoresistance from the composition, were investigated by X-ray diffrac tome try and X-ray emission spectroscopy. The presence of silicide, sub-oxide and low-coordinated silicon phases has been found, that may be connected with nonlinear magnetoelectric properties.