

Growth, structure and some superconducting properties of FeSe crystals

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Superconducting FeSe crystals were grown from KCl solution-melt. Phase and element composition was investigated. X-ray diffraction analysis revealed that the obtained crystals always contain a hexagonal phase in addition to tetragonal one.

It was observed via measurement of resistivity and magnetic susceptibility that the crystals have a high volume of superconducting region.