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Synthesis of Polycrystalline Mixed System Rb3-xKxCu3AlO2(SO4)4

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In our work we synthesized polycrystalline Rb3-xKxCu3AlO2(SO4)4 with varying Rb:K ratios. In the experiments we outlined the optimum growth conditions for Rb substituted alumoklyuchevskite synthesized from powder mixtures. First results suggest that Rb and K show a complete miscibility in the polycrystalline powder. In addition, O2 atmosphere is beneficial for building the synthesized phase. In accordance with literature, a change in magnetic properties was observed for different Rb:K ratios.

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