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## **COMPARATIVE CONSIDERATIONS ON THE STRUCTURE OF SOME MOLYBDENUM/NIOBIUM DOUBLE PEROVSKITES OXIDES**

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### **Abstract**

The paper deals with some series of ternary and quaternary mixed oxides based on molybdenum and niobium. The lattice parameters of the mixed oxides were estimated by means of a hard sphere model in order to determine if the formation of the double perovskite is favoured in the above systems. The main phases formed during the synthesis process are also presented. The results of XRD and IR analyses are in good agreement with the theoretical data.

*Key words:* cation distribution, epitaxial misfit, HTS supports,  $\text{MO}_6$  octahedra, tolerance factor

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