EFFECT OF MANGANESE ON SOME MIXED TARTRATE CRYSTALS
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Abstract
The compounds of different tartrates find their applications in medical and pharmaceutical fields. Materials with excellent non-linearities are studied for their applications in telecommunication, optical computing, and optical data storage. The good quality crystals of different tartrates are grown by single diffusion gel method. The effects of doping manganese on these crystals are studied from FTIR and UV spectrum. Good quality crystals are obtained within a period of 20 days. The grown crystals have wide optical transparency in the visible region, which is the desired property of NLO materials.

Keywords: Doping; solution growth; Barium compounds; Calcium compounds; Non-linear optical materials