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phonon frequencies slightly increase with the Mn composition. However, the highest $E_{ij}(TO)$ and $A_{2u}(TO)$ vibration modes present an opposite change trend. Compared with SnO₂ single crystal, four corresponding longitudinal optical (LO) phonon frequencies decrease for the films

lowest among the $Sn_{1-x}Mn_xO_2$ system. On the other hand, the low E_{ij} transverse optical (TO)

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