

Supplementary materials

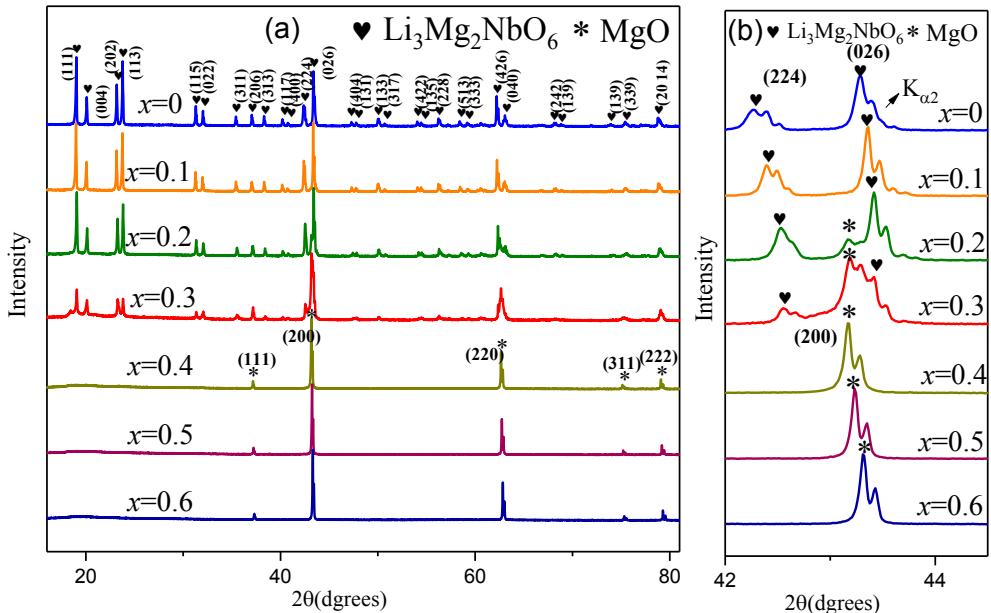


Fig.S1(a) The XRD patterns of $\text{Li}_{3-x/3}\text{Mg}_{1-2x/3}\text{Nb}_{1/3}\text{Ti}_x\text{O}_6$ ($x=0\sim0.6$) microwave ceramics sintered at 1260°C for 6h. (b) The amplified spectra of the XRD patterns from 40° to 46° degrees.

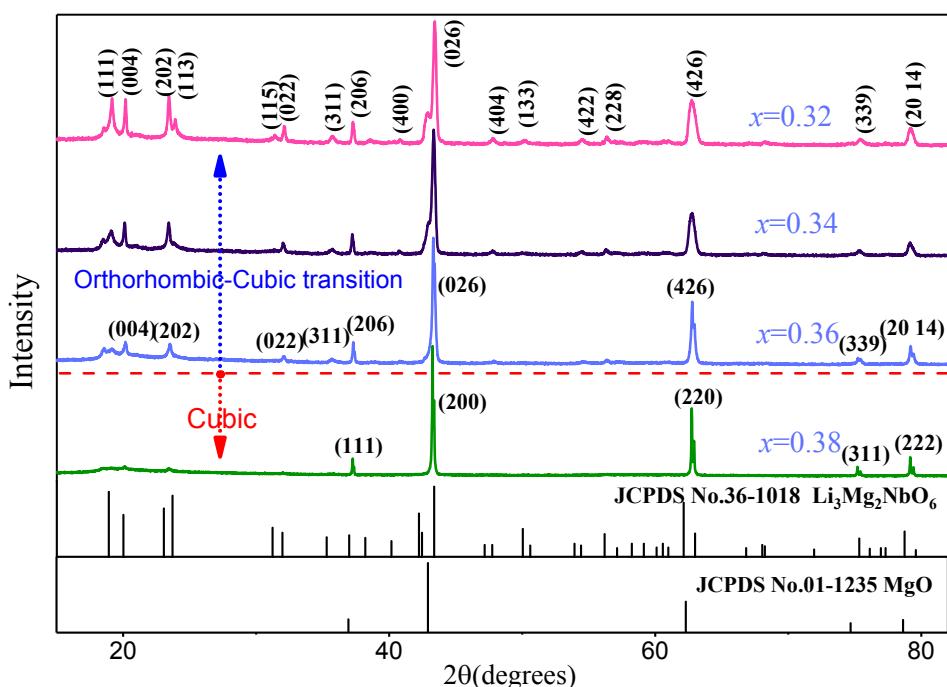


Fig.S2 The XRD patterns of $\text{Li}_{3-x/3}\text{Mg}_{1-2x/3}\text{Nb}_{1/3}\text{Ti}_x\text{O}_6$ ($x=0.32, 0.34, 0.36, 0.38$) microwave ceramics sintered at 1260°C for 6h.

From Fig.S1, we can see that the patterns of the sample $x=0.4$ and $x=0.5$ are also shown the cubic rock salt type reflections. And in Fig.S2,a clearer process of the vanishing of the superlattice reflections is provided.

