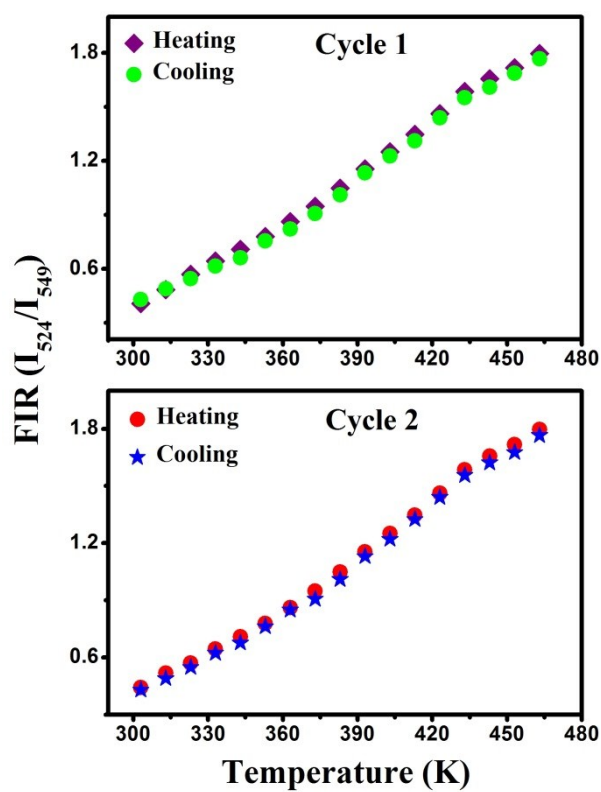


Supplementary Figure



Supplementary Fig. 1 FIR vs. Temperature graph for $\text{Gd}_2\text{Mo}_3\text{O}_9: 0.3\% \text{Er}^{3+}/3\% \text{Yb}^{3+}$ sample for two heating-cooling cycles (two heating + two cooling).