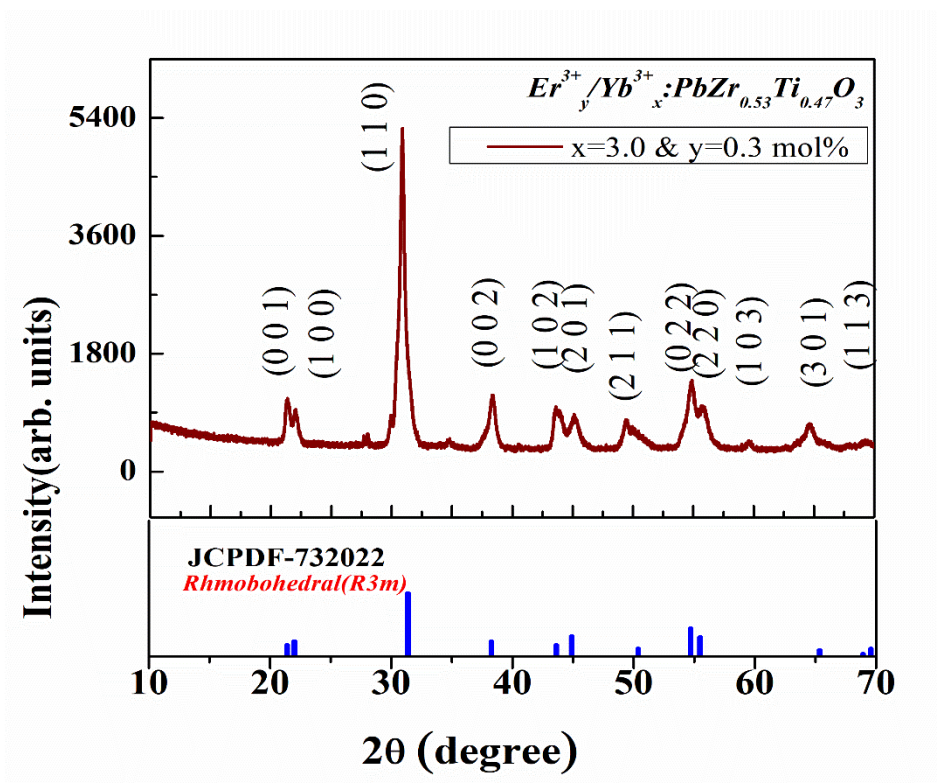


### Electronic supplementary information (ESI)



ESI:S1: Powder XRD pattern of  $Er^{3+}/Yb^{3+}:PbZr_{0.53}Ti_{0.47}O_3$  sample synthesized via low temperature assisted combustion reaction route along with their standard profile(JCPDS) data.