Figure 2. Comparison of the emission spectrum of Er^{3+} in $(THF)_{14}Er_{10}S_6Se_{12}I_6$ complex and phosphate glass with same order of Er^{3+} concentration.

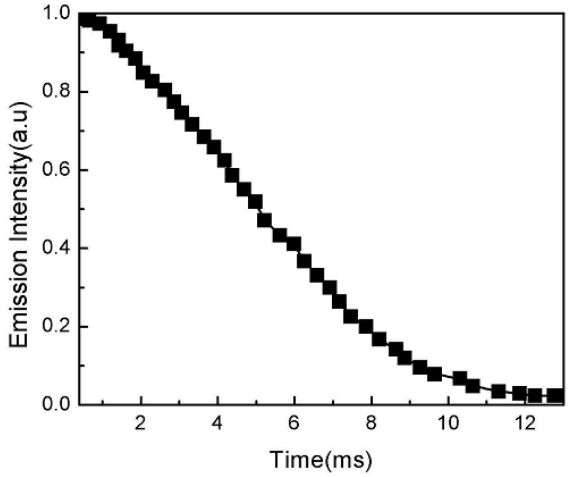

Figure 3.Fluorescence decay curve of the 1540 nm emission in $Er_{10}S_6Se_{12}I_6$ complex under 980 nm laser excitation.

Table 1.Comparison of the fluorescence lifetime and phonon frequencies of some reported Er containing solid- state materials.

Host	Lifetime(ms)	Phonon frequency(cm^{-1})
Sulphide	3.0	450-700
Selinide	2.3	450-700
Tellurite	4	450-700
Phosphate	11	1200
Borate	8	1400
Silicate	15	1100
Germanate	6	900
ZBLA	10	500
Halide	10-30	200-400
YAG	8	400