

## Supporting information

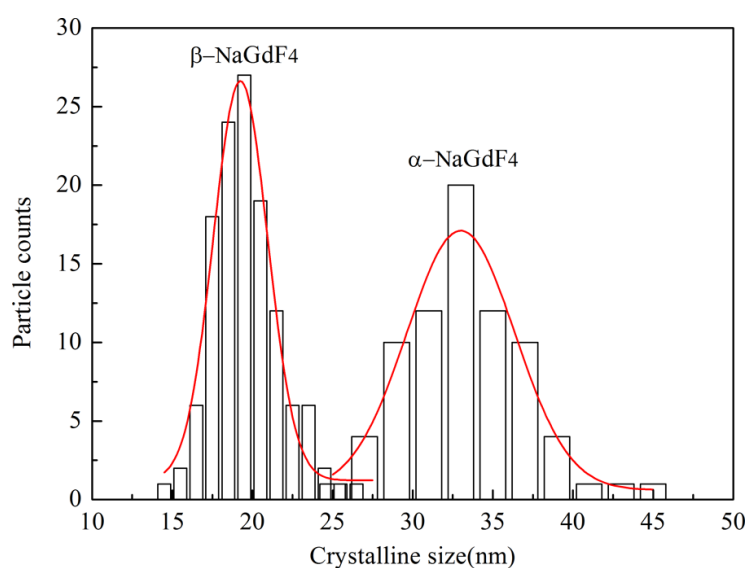
### Structural evolution and enhancement of luminescence in the Eu-doped oxyfluoride glass ceramics containing NaGdF<sub>4</sub> nanocrystals

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**Fig.S1** Crystallite size distribution of  $\alpha$ -NaGdF<sub>4</sub> and  $\beta$ -NaGdF<sub>4</sub> nanocrystals in the glass ceramics



**Fig.S3** Emission spectra of Eu<sup>3+</sup> ions in the precursor glass and glass ceramics ( $x = 10$ )

