

Supporting Information

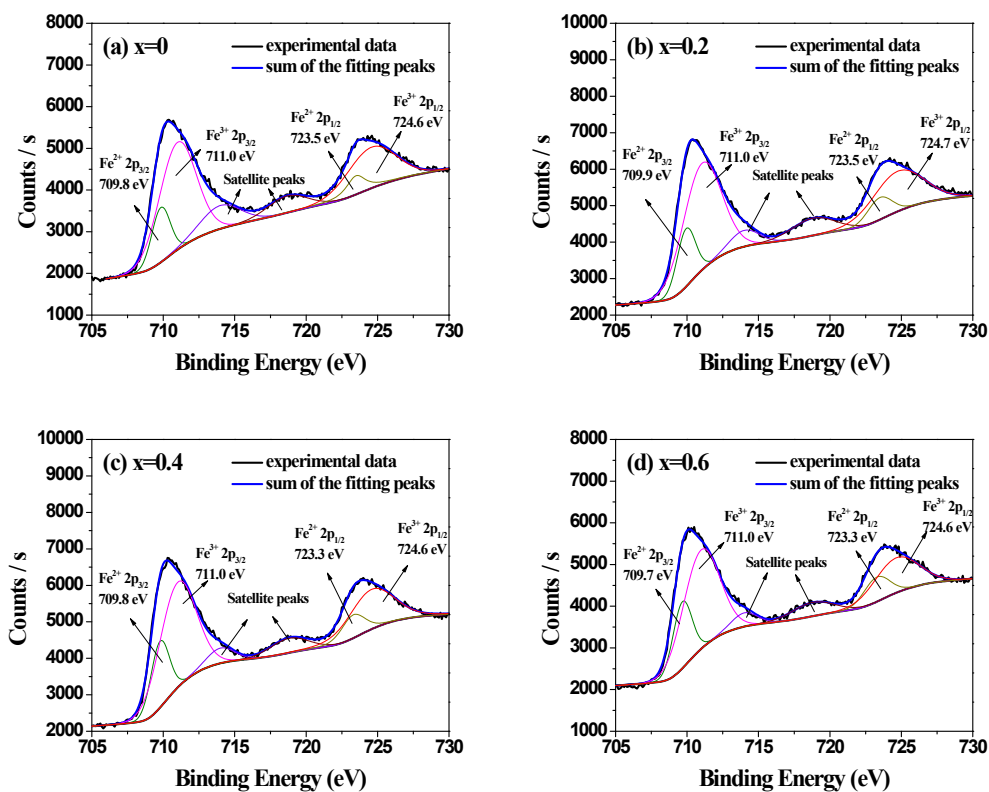
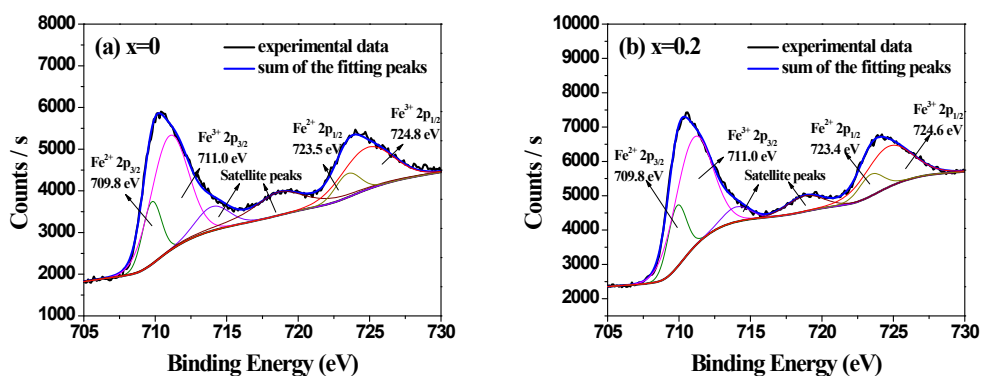


Fig. S1 Fe 2p XPS spectra of the $\text{BaFe}_{12-x}\text{Nb}_x\text{O}_{19}$ powders ($x=0, 0.2, 0.4, 0.6$) sintered at 1250°C for 3 h.



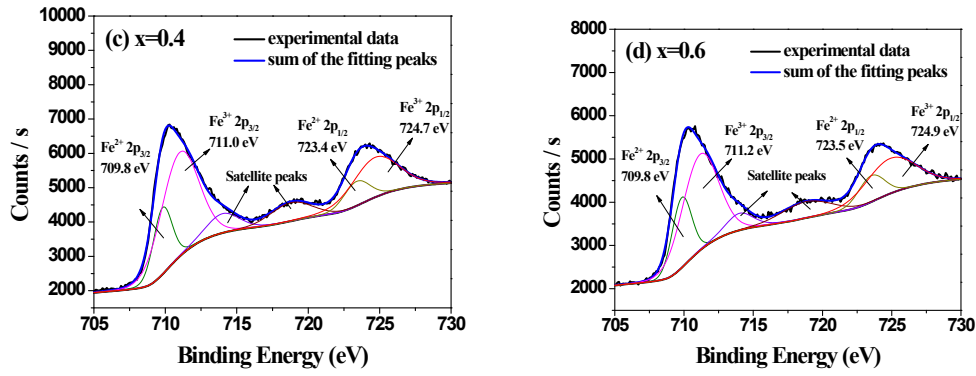


Fig. S2 Fe 2p XPS spectra of the $\text{BaFe}_{12-x}\text{Nb}_x\text{O}_{19}$ powders ($x=0, 0.2, 0.4, 0.6$) sintered at $1300\text{ }^\circ\text{C}$ for 3 h.

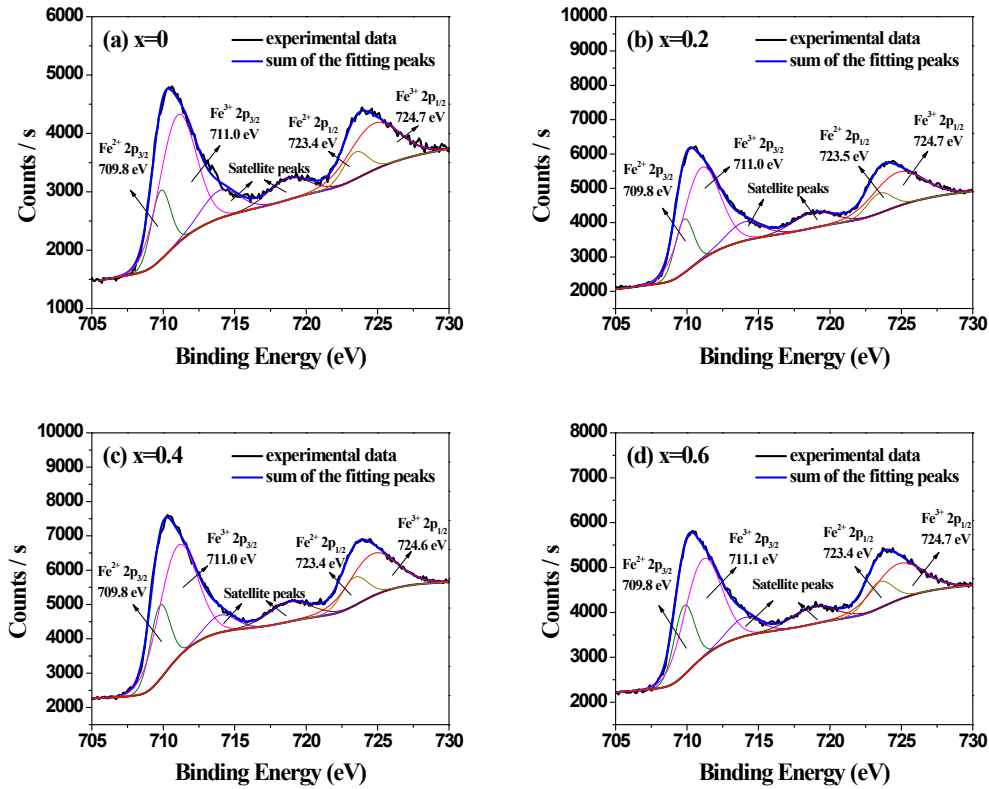


Fig. S3 Fe 2p XPS spectra of the $\text{BaFe}_{12-x}\text{Nb}_x\text{O}_{19}$ powders ($x=0, 0.2, 0.4, 0.6$) sintered at $1350\text{ }^\circ\text{C}$ for 3 h.

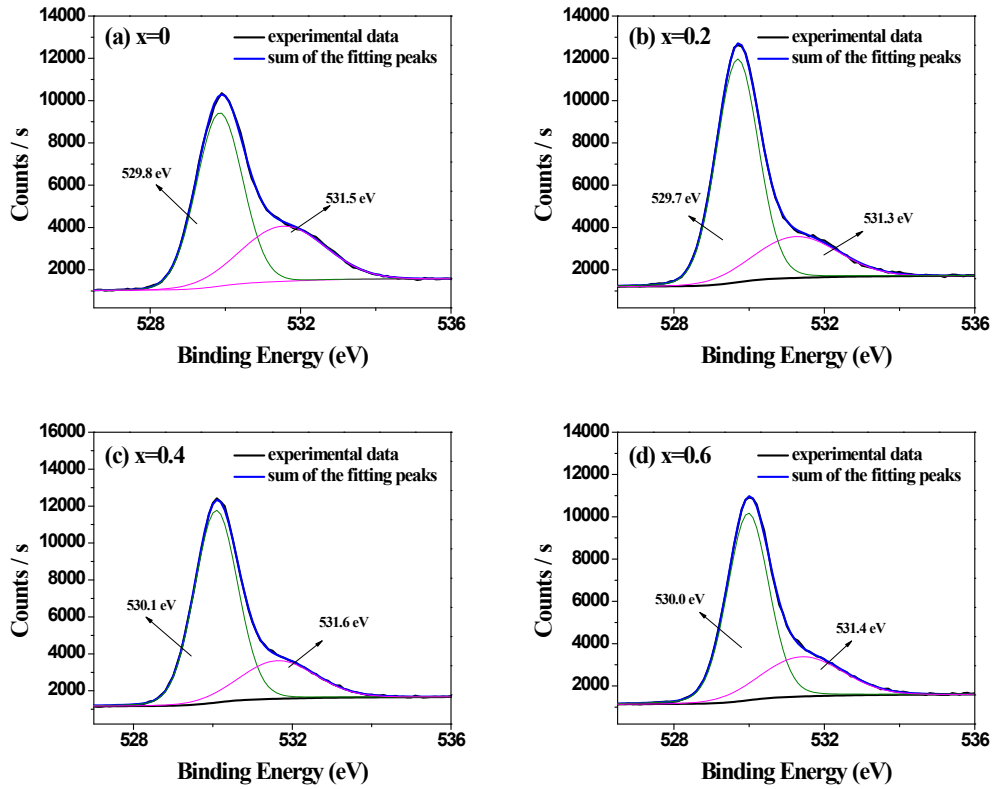


Fig. S4 O 1s XPS spectra of the $\text{BaFe}_{12-x}\text{Nb}_x\text{O}_{19}$ powders ($x=0, 0.2, 0.4, 0.6$) sintered at 1250°C for 3 h.

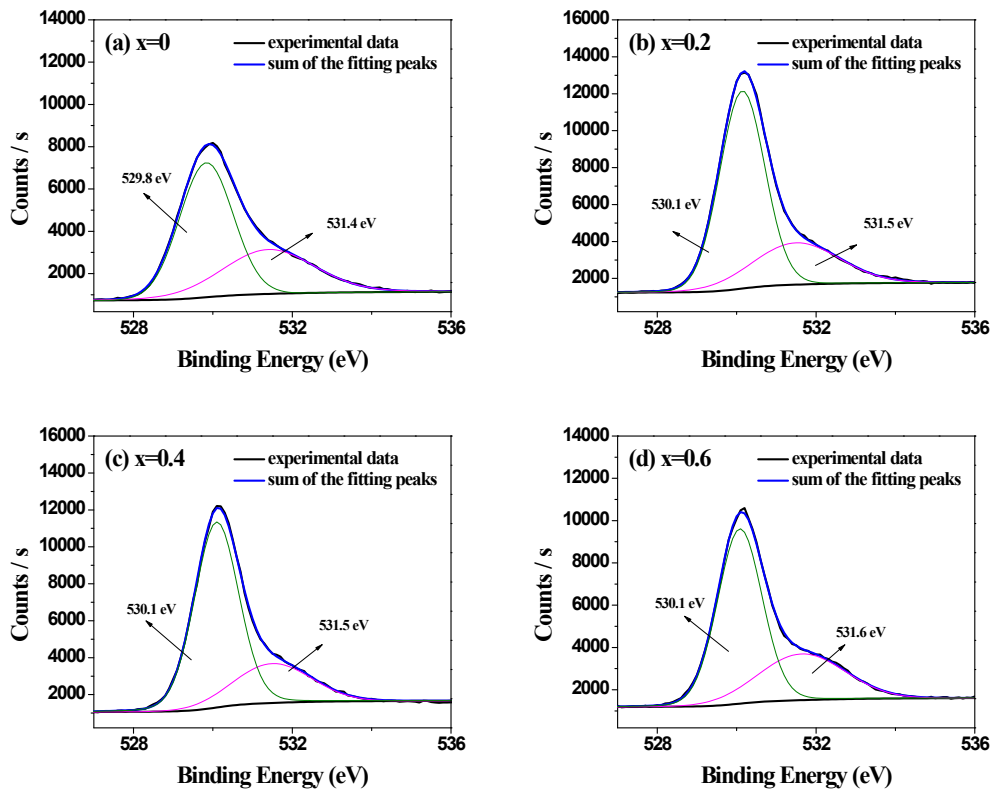


Fig. S5 O 1s XPS spectra of the $\text{BaFe}_{12-x}\text{Nb}_x\text{O}_{19}$ powders ($x=0, 0.2, 0.4, 0.6$) sintered at 1300°C for 3 h.

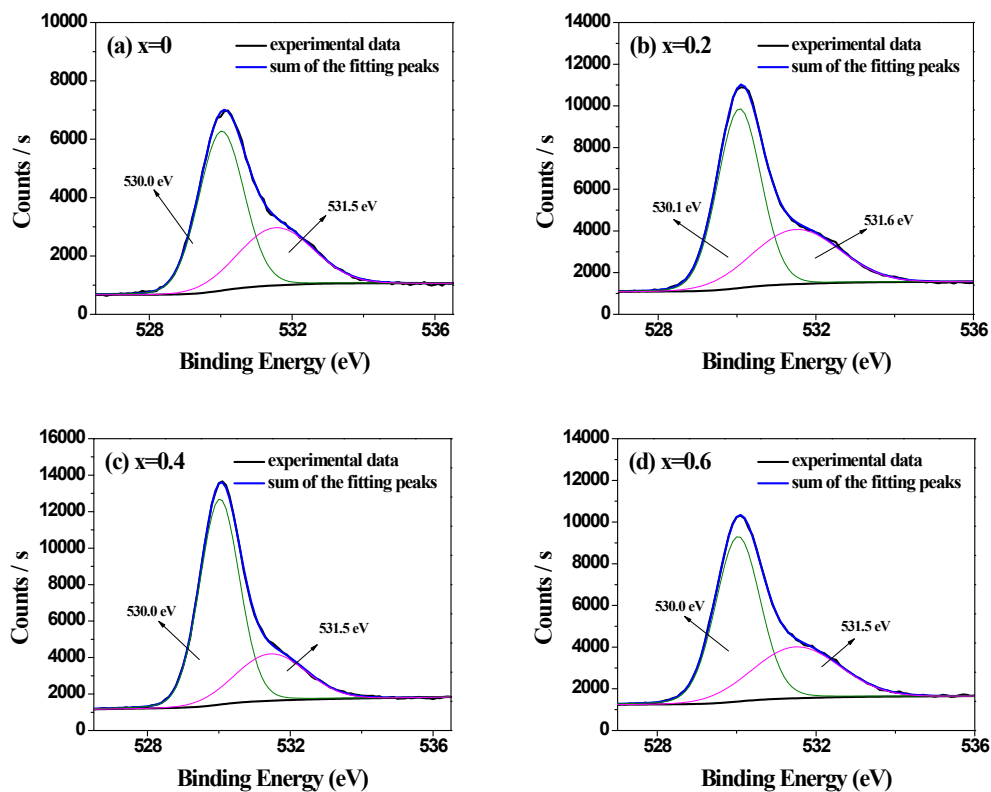


Fig. S6 O 1s XPS spectra of the $\text{BaFe}_{12-x}\text{Nb}_x\text{O}_{19}$ powders ($x=0, 0.2, 0.4, 0.6$) sintered at 1350°C for 3 h.