

Supplementary information

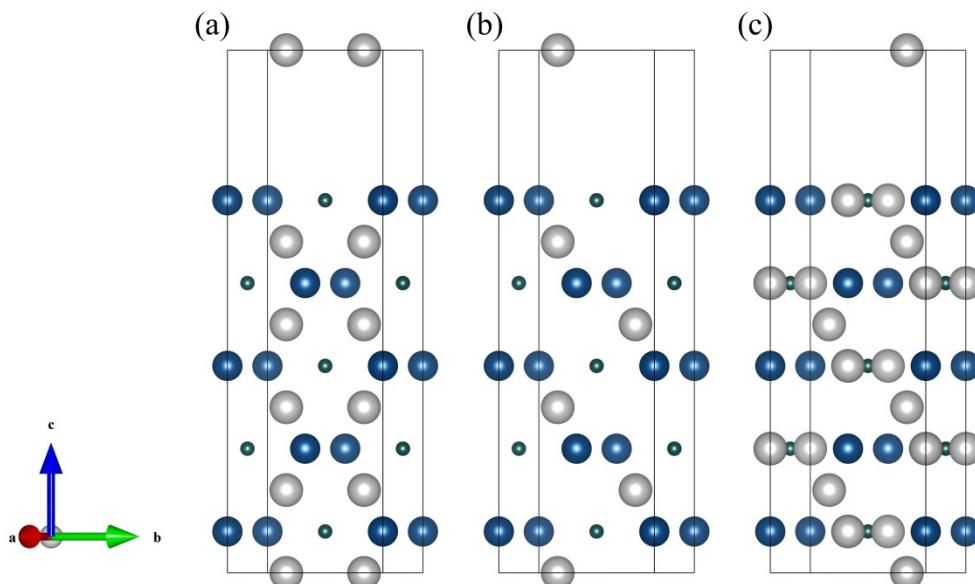


Fig.1 The three models of $\text{SrTiO}_{3-\delta}$ in [110] direction (a) $\text{SrTiO}_{3-\delta}-1$, (b) $\text{SrTiO}_{3-\delta}-2$, (c) $\text{SrTiO}_{3-\delta}-3$

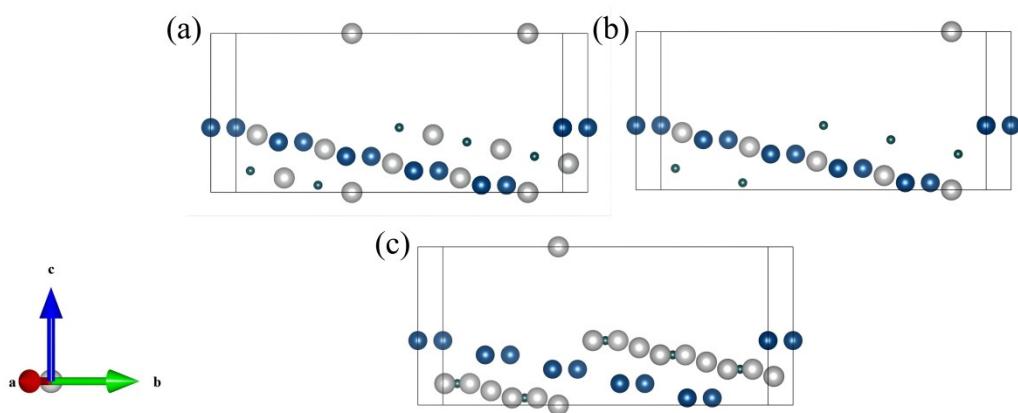


Fig.2 The three models of $\text{SrTiO}_{3-\delta}$ in [510] direction (a) $\text{SrTiO}_{3-\delta}-1$, (b) $\text{SrTiO}_{3-\delta}-2$, (c) $\text{SrTiO}_{3-\delta}-3$

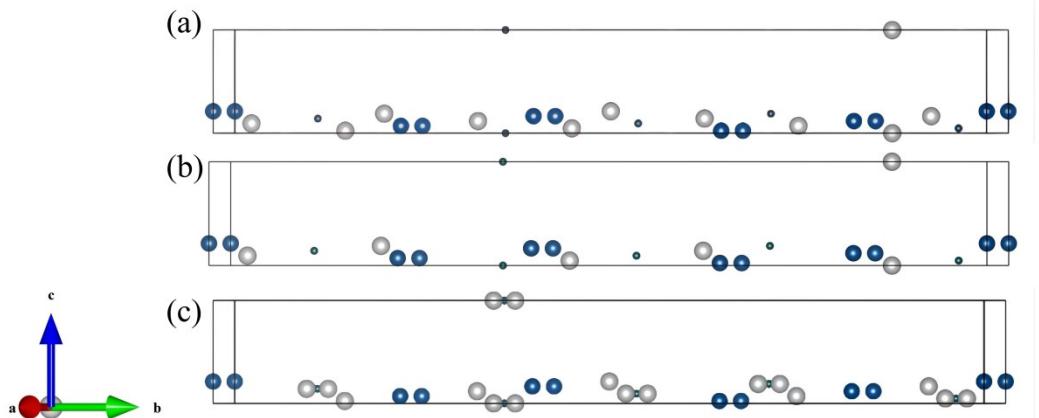


Fig.3 The three models of $\text{SrTiO}_{3-\delta}$ in $[12\ 5\ 0]$ direction (a) $\text{SrTiO}_{3-\delta}-1$, (b) $\text{SrTiO}_{3-\delta}-2$, (c) $\text{SrTiO}_{3-\delta}-3$

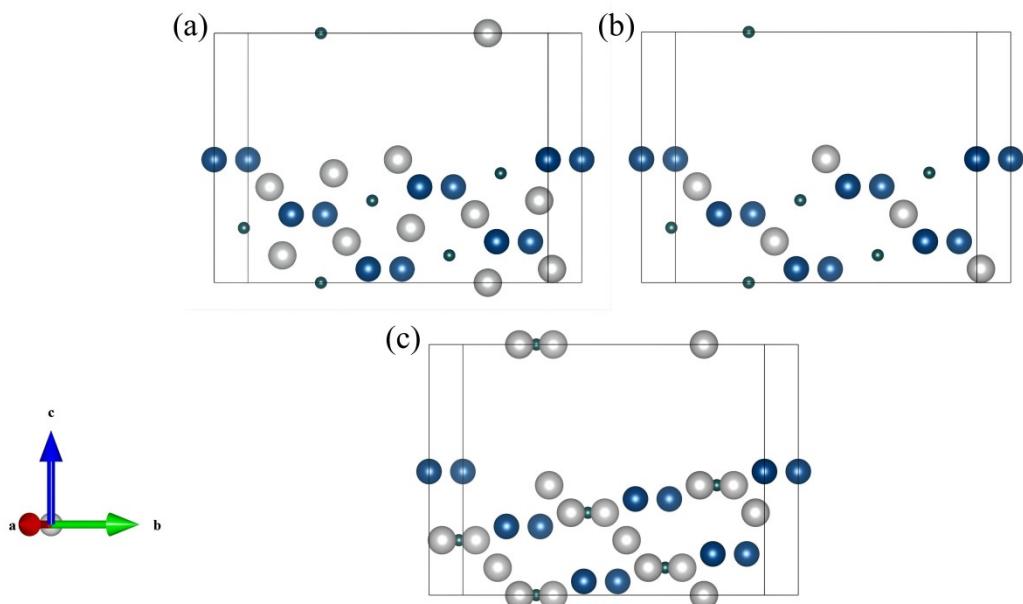


Fig.4 The three models of $\text{SrTiO}_{3-\delta}$ in $[320]$ direction (a) $\text{SrTiO}_{3-\delta}-1$, (b) $\text{SrTiO}_{3-\delta}-2$, (c) $\text{SrTiO}_{3-\delta}-3$

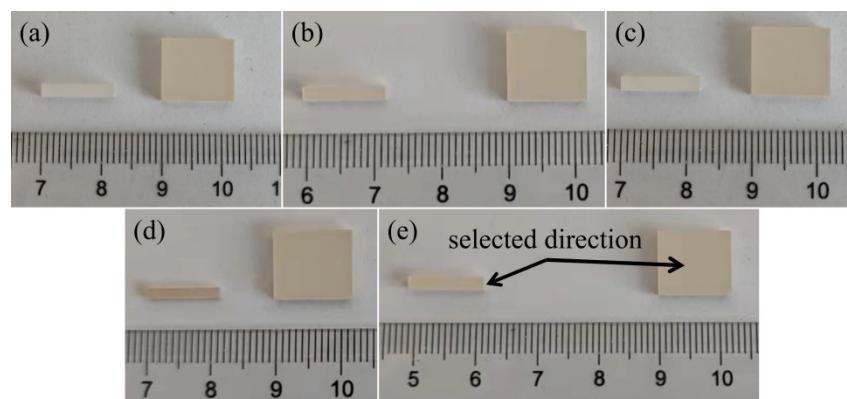


Fig.5 The real image of the $\text{SrTiO}_{3-\delta}$ samples in different crystal orientations after directional cutting. (a) $[100]$, (b) $[110]$, (c) $[510]$, (d) $[12\ 5\ 0]$ and (e) $[320]$.