## **Supporting Information**

## Modulated oxygen vacancies optimized energy storage density in BNT-based ceramics via

## defect engineering strategy

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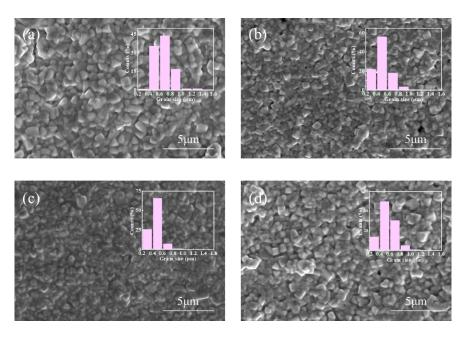


Figure S1 Surface morphology of  $Bi_{0.3}Na_{0.3}Sr_{0.28}Sm_{0.08}Ti_{(1-x)}Ta_xO_3$  ceramics

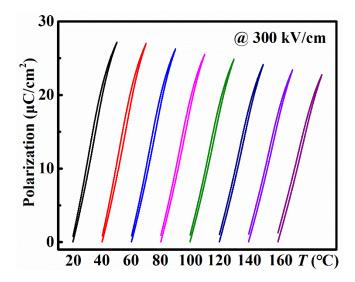


Figure S2 P-E curves with different temperature.

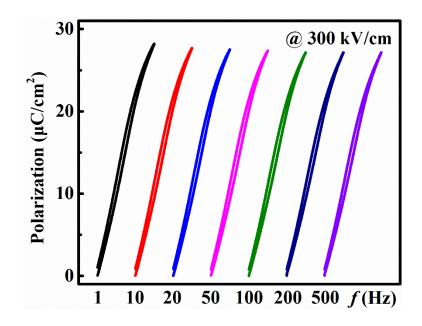


Figure S3 P-E curves with different frequency.

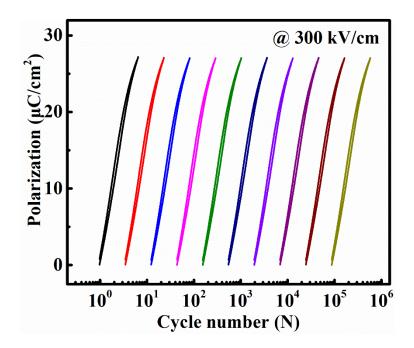


Figure S4 P-E curves with different cycle number.