

Supporting Information
for

Decoding the relationships between electrocaloric strength and phase structure
in perovskite ferroelectrics towards high performance

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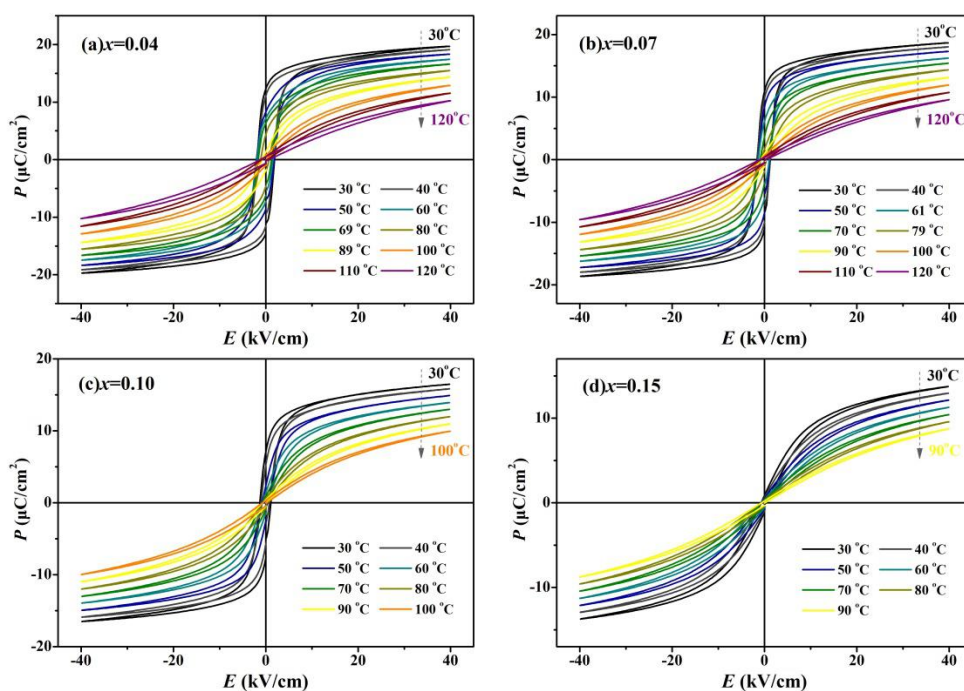


Fig. S1 Temperature-dependent ferroelectric hysteresis (P - E) loops for BT- x CZ-BS ceramics with (a) $x=0.04$, (b) $x=0.07$, (c) $x=0.10$, and (d) $x=0.15$ measured at 1 Hz from 30 °C to 90-120 °C.

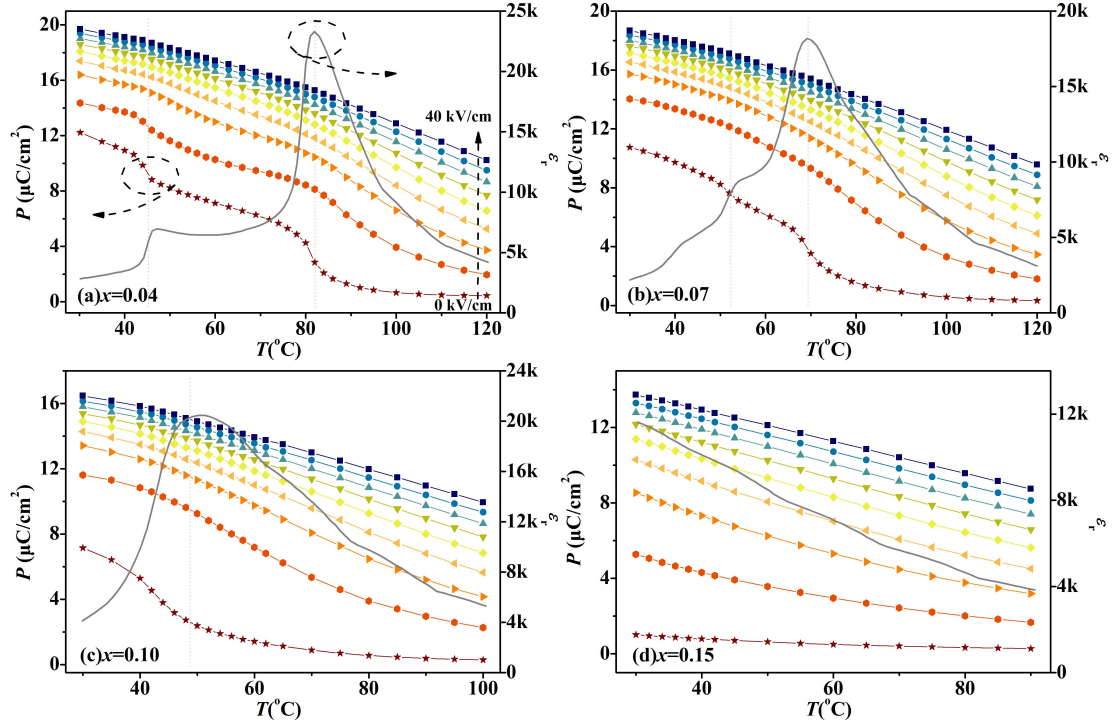


Fig. S2 Temperature-dependent polarization evolution (extracted from the maximum polarization in P - E loops) under different electric field from 0 to 40 kV/cm for BT- x CZ-BS ceramics with (a) $x=0.04$, (b) $x=0.07$, (c) $x=0.10$, and (d) $x=0.15$. The polarization at 0 kV/cm was obtained from the remnant polarization in each P - E loops under 25 kV/cm.

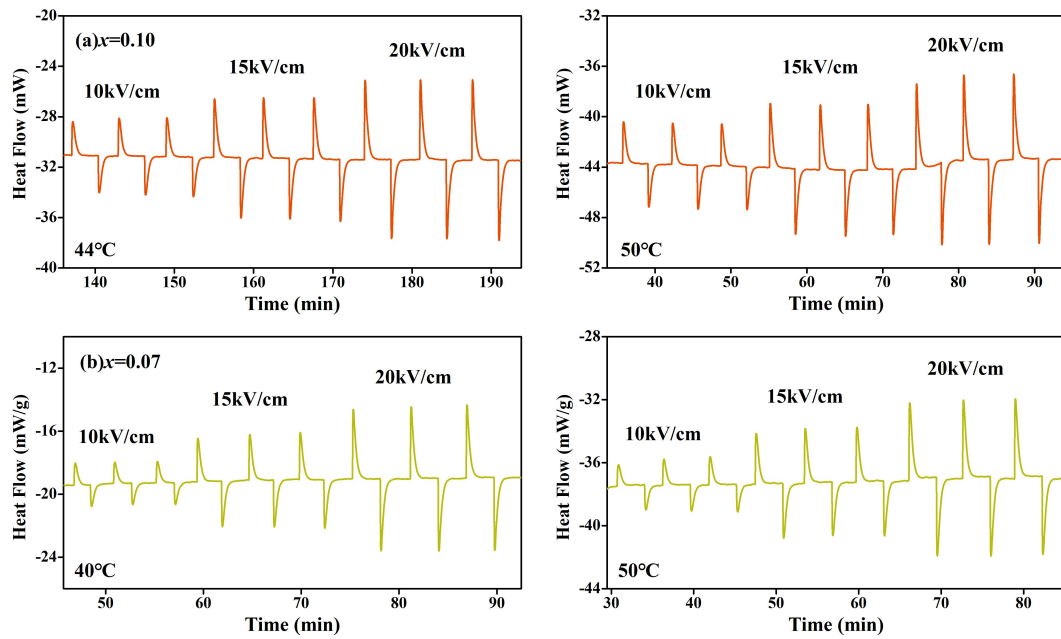


Fig. S3 the DSC heat flow measurement results at various temperature and electric field for BT- x CZ-BS ceramics with (a) $x=0.10$, (b) $x=0.07$.