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Supplementary Information for

## Doping-dependent negative dielectric permittivity realized in monophase antimony tin oxide ceramics

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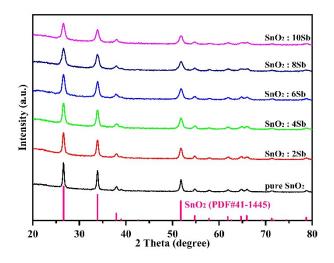


Fig. S1 XRD patterns of the calcined ATO powders

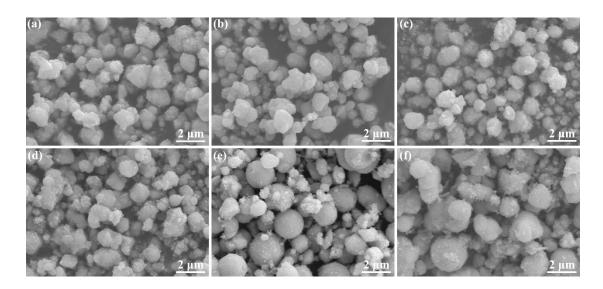


Fig. S2 SEM images of the calcined ATO powders. Sb-doping amount for (a-f) is 0, 2, 4, 6, 8, 10 mol%, respectively.

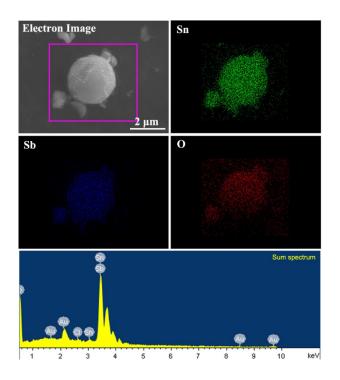


Fig. S3 EDS analysis for the powders of  $SnO_2$ : 8 Sb