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Supplementary Information

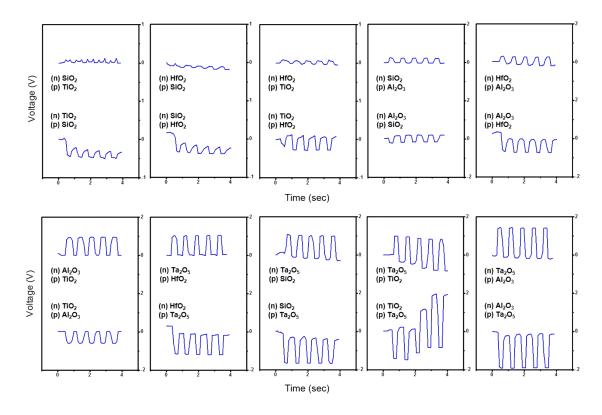


Fig. S1. The V_{oc} data measured in order to list triboelectric polarity of oxide dielectric materials in forward and reverse connection.

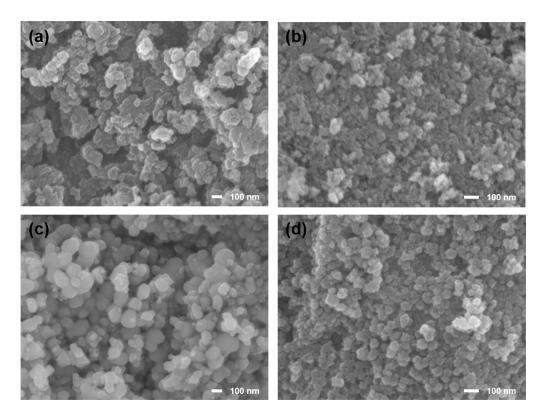


Fig. S2. SEM image of (a) SiO_2 , (b) Al_2O_3 , (c) HfO_2 , and (d) TiO_2 NPs.

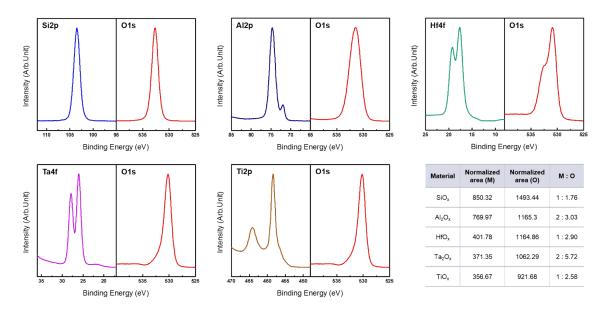


Fig. S3. XPS spectra of SiO_2 , Al_2O_3 , HfO_2 , Ta_2O_5 and TiO_2 , and a table of information from the XPS data.