Supporting Information

Defect engineering-driven enhancement of piezocatalysis in (K, Na)NbO_3 lead-free piezocatalyst

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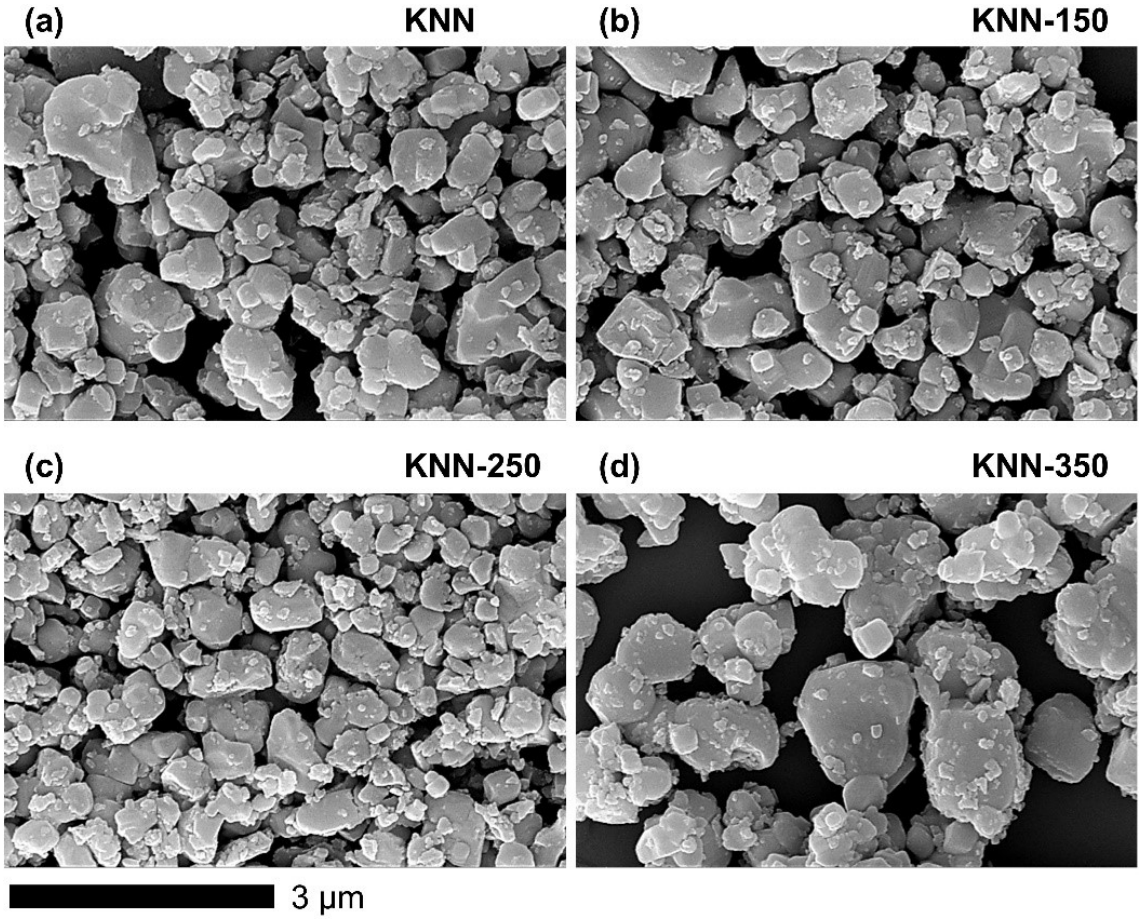

Figure S1. SEM images of (a) KNN, (b) KNN-150, (c) KNN-250, (d) KNN-350 samples.

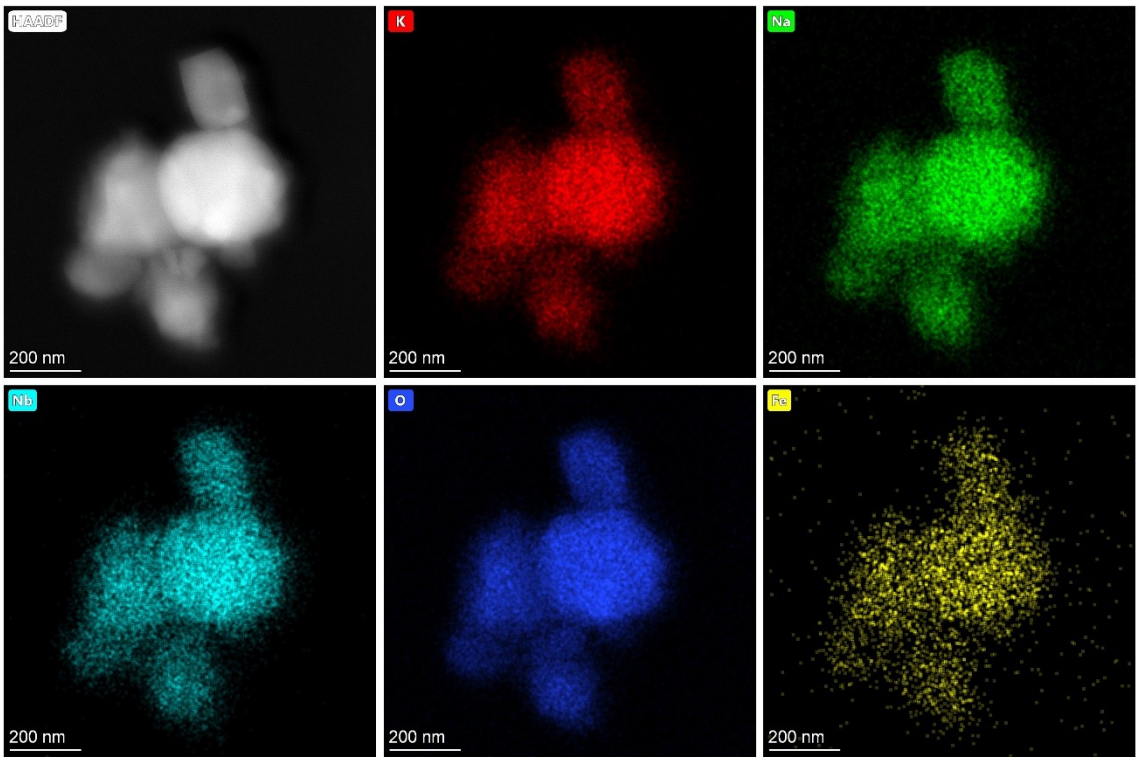

Figure S2. TEM-EDS mappings of KNN sample.

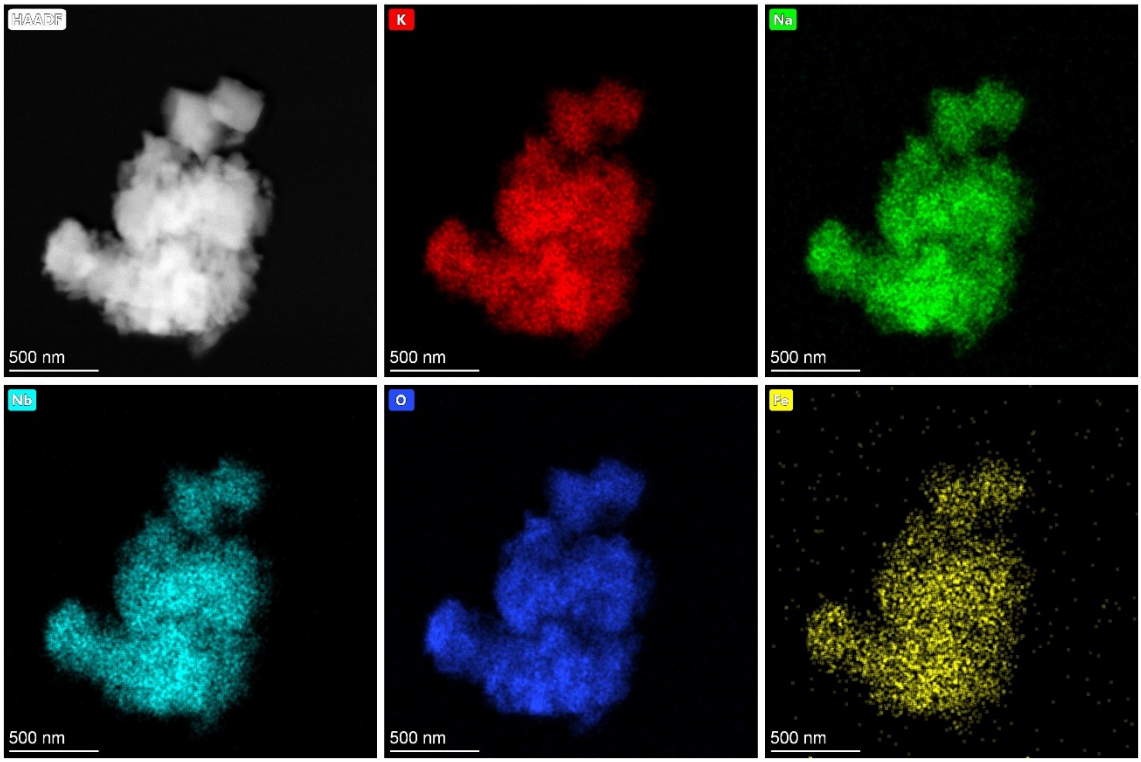

Figure S3. TEM-EDS mappings of KNN-250 sample.

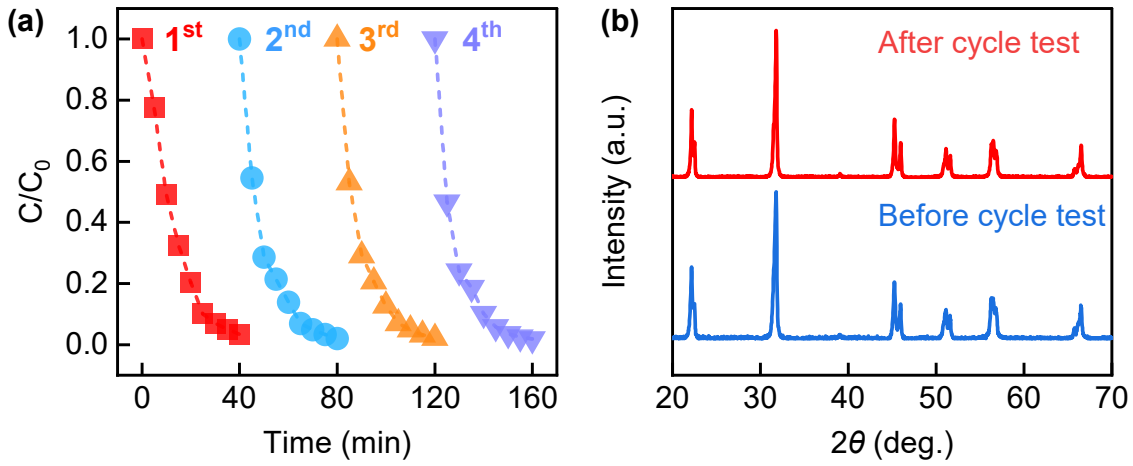

Figure S4. (a) Four cycles degradation efficiency curves, (b) XRD patterns of KNN-250 sample before and after four cyclic experiments.

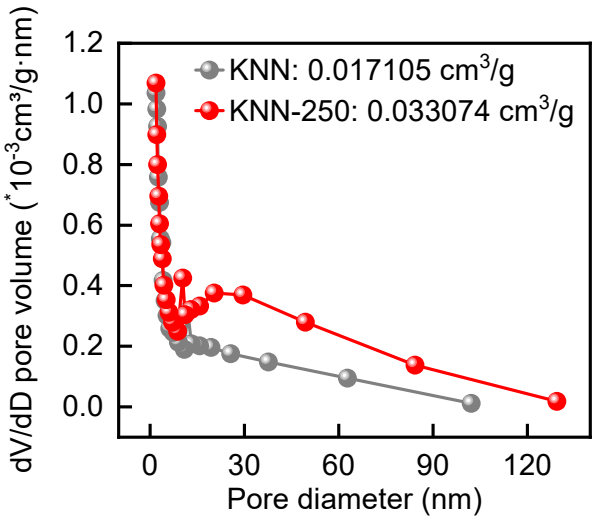

Figure S5. Pore size distribution of the KNN and KNN-250 samples.

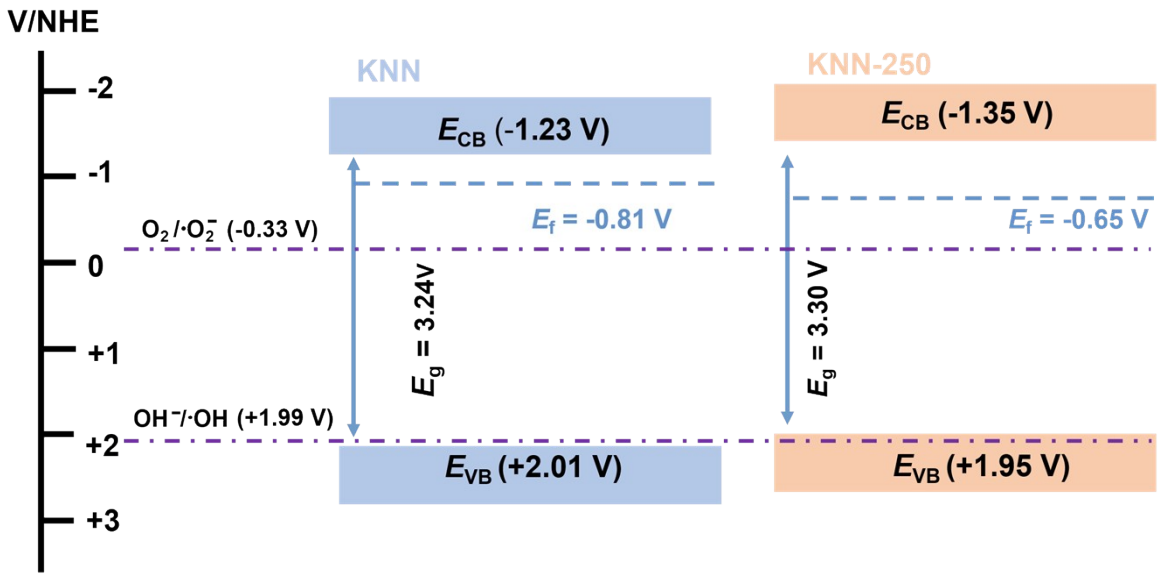

Figure S6. The energy band structures of KNN and KNN-250 samples.

Table S1. BET surface area (S_{BET}), average pore width, and pore volume of three KNN and KNN-250 samples.

Sample	S_{BET} (m^2/g)	Average pore width (nm)	Pore volume (cm^3/g)
KNN	5.1594	13.2609	0.017105
KNN-250	6.8329	19.3618	0.033074