

# Supplementary Information

## **Enhancement of Mechanical Properties of Multilayer Ceramic Capacitors through a BaTiO<sub>3</sub>/polydopamine Cover Layer**

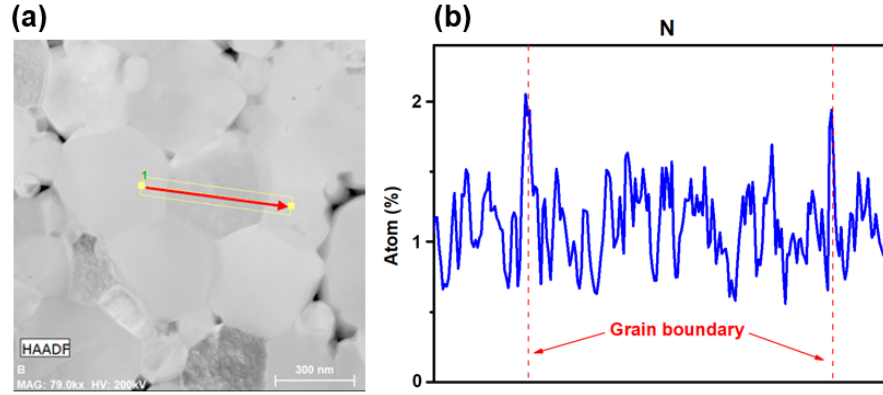
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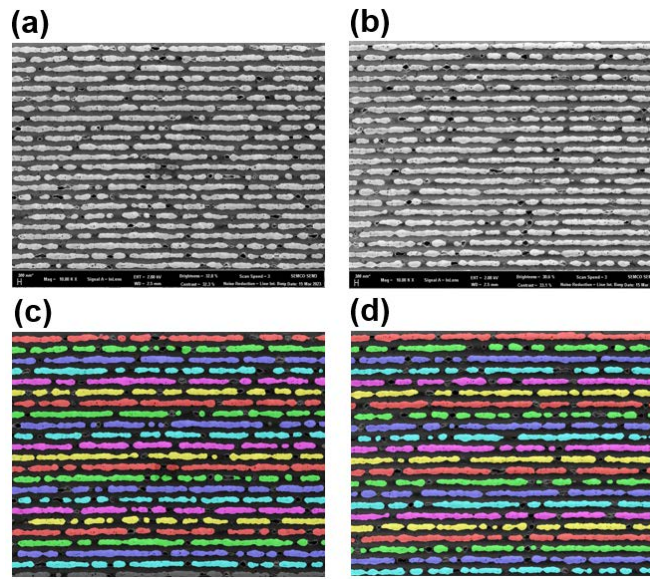
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**Figure S1.** (a) TEM image of BT/PDA layer after firing. (b) N atomic percent by line profile. The line profile represents a higher atomic percent of N at the grain boundary.



**Figure S2.** SEM image of (a) BT and (b) BT/PDA internal MLCC layer. Electrode connection of (c) BT and (d) BT/PDA internal MLCC layer. The internal MLCC layers of BT and BT/PDA are the same, except for the cover layer. The porosity of dielectric layer for the BT and BT/PDA was at the same level. When the perfect electrode connectivity is assumed as 100 %, the calculated electrode connectivity of BT is 85 %, and that of BT/PDA is 86 %.