

Supporting information

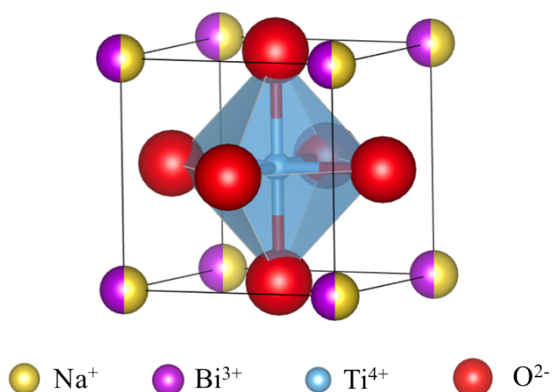


Figure S1. Crystal structure of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{Ti}_3\text{O}_3$. Na and Bi ions share the A sites and Ti ions occupy the B sites. The octahedral of TiO_6 is shown for clarity.

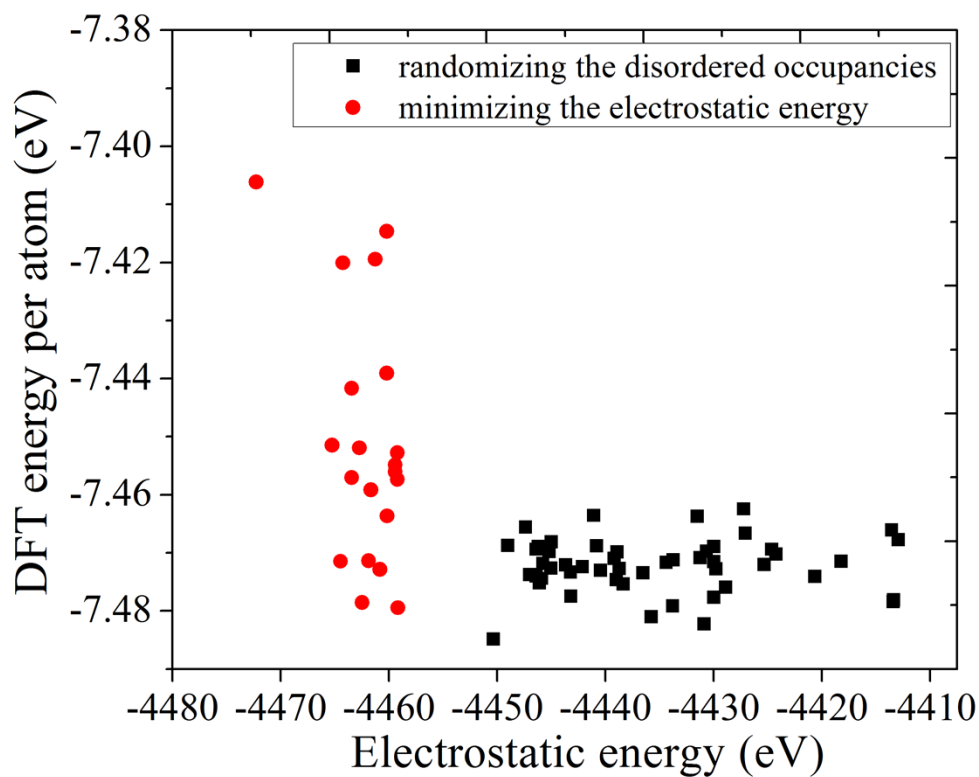


Figure S2. Electrostatic energy versus DFT energy for the $\text{Na}_{0.5}\text{Bi}_{0.5}\text{Ti}_3\text{O}_3$ with different A-site configurations, which were generated by randomizing the disordered occupancies (black) and by minimizing the electrostatic energy (red) of A-site Na and Bi sublattice.

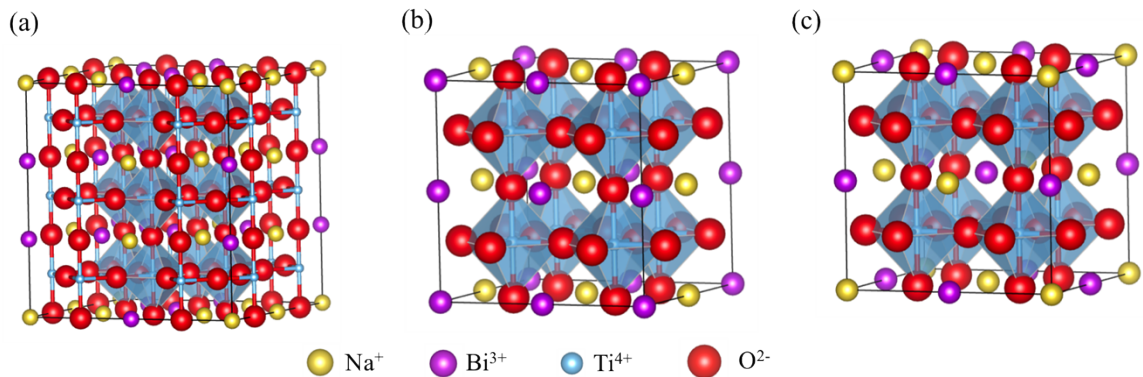


Figure S3. Crystal structures of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{Ti}_3\text{O}_3$ with different A-site Na/Bi sublattice, which has (a) the lowest DFT energy, (b) the $\{001\}$ layered ordering, or (c) the rock-salt ordering. The octahedral of TiO_6 is shown for clarity. The DFT energies for these three structures are: (a) -7.485 eV/atom, (b) -7.437 eV/atom, (c) -7.397 eV/atom, respectively.