

Description of Additional Supplementary Files

Supplementary Data 1: The atomic coordinates of the optimized unit cells for the DFT calculation of pristine Sr_2TiO_4 , Sr_2TiO_4 containing Ti^{3+} and V_O defects, Sr_2TiO_4 containing Ti^{3+} , V_O and N_O defects, and Sr_2TiO_4 containing F_O and N_O defects.