

Supporting Information

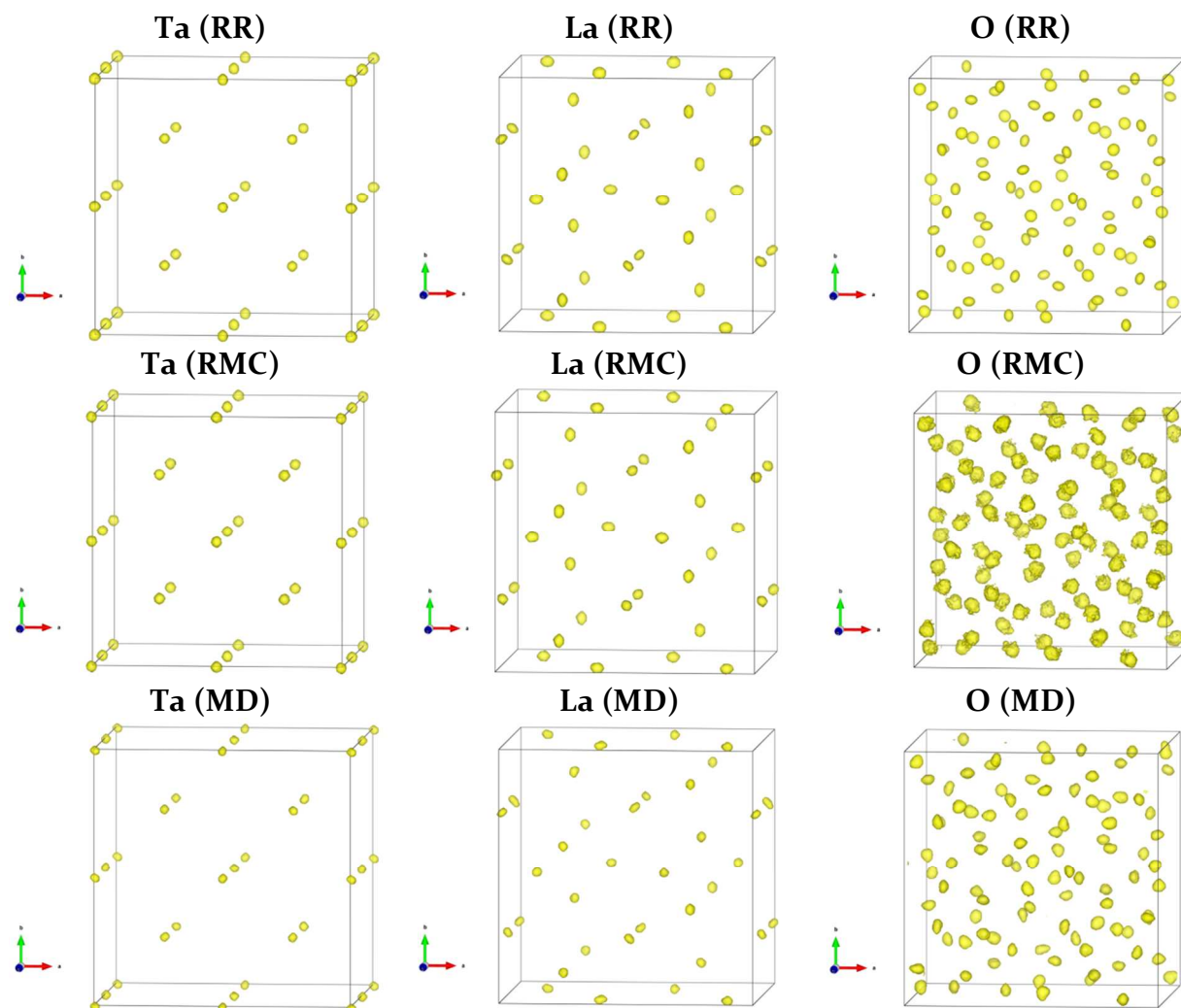


Figure S1. Density maps of La, Ta and O derived from RR, RMC modeling and MD at 300 K. Isosurface level of $1.5 \text{ \AA}^{-3}$.

Videos of atomic dynamics of four examples in Figure 13 of the main text: [Traj1.mpg](#), [Traj2.mpg](#), [Traj3.mpg](#), [Traj4.mpg](#).