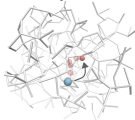
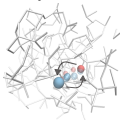


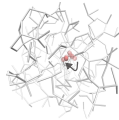
Vacancy Diffusion



Vacancy-Ion Generation



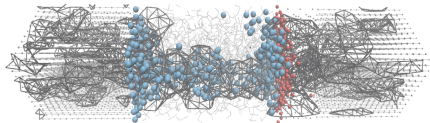
Ion Diffusion



Current  
→

● - Oxygen Ion

● - Oxygen Vacancy



TiN

HfO<sub>2</sub>

Ti

TiN