

Zintl template formation and function during atomic layer deposition growth of crystalline perovskites on Ge (001)

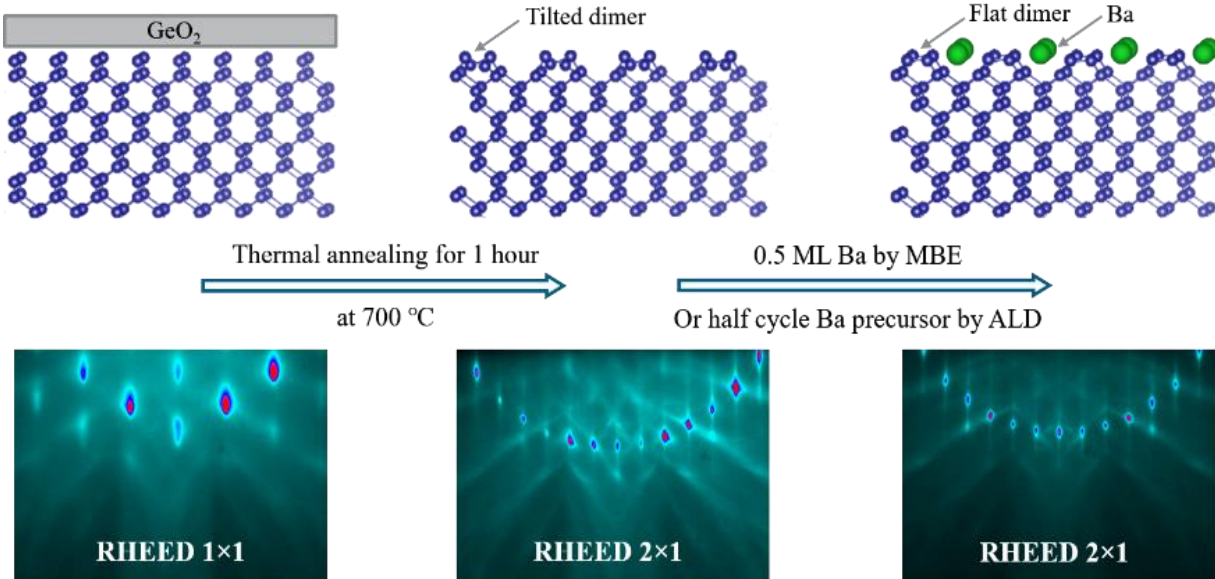


Figure 1. procedure for Zintl template production

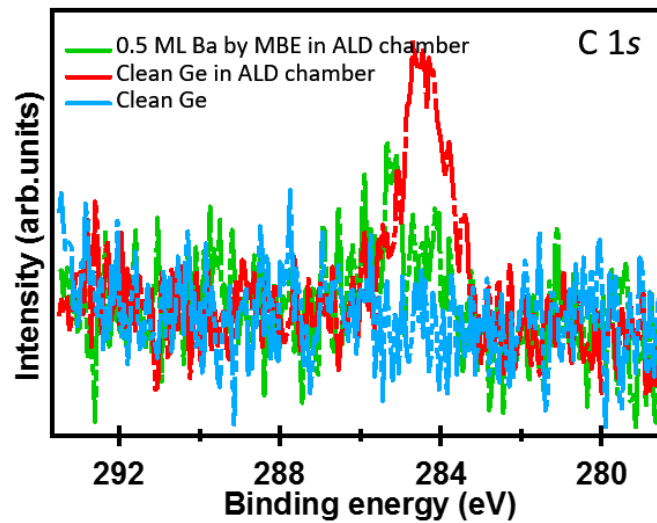


Figure 2. C 1s X-ray photoelectron spectra of clean Ge, clean Ge that was moved into the ALD chamber for 15 mins, and a 0.5-ML Ba on Ge surface that was moved into the ALD chamber for 15 mins.