

Supporting information

Substrate Effect on the Thermal Expansion of 2D Materials: An Investigation by Machine Learning Interatomic Potentials

Ali Rajabpour ¹ and Bohayra Mortazavi ^{2,*}

¹ Advanced Simulation and Computing Laboratory, Mechanical Engineering Department, Imam Khomeini International University, Qazvin 3414896818, Iran

² Department of Mathematics and Physics, Leibniz Universität Hannover, Appelstraße 11, 30167 Hannover, Germany

* Correspondence: bohayra.mortazavi@gmail.com

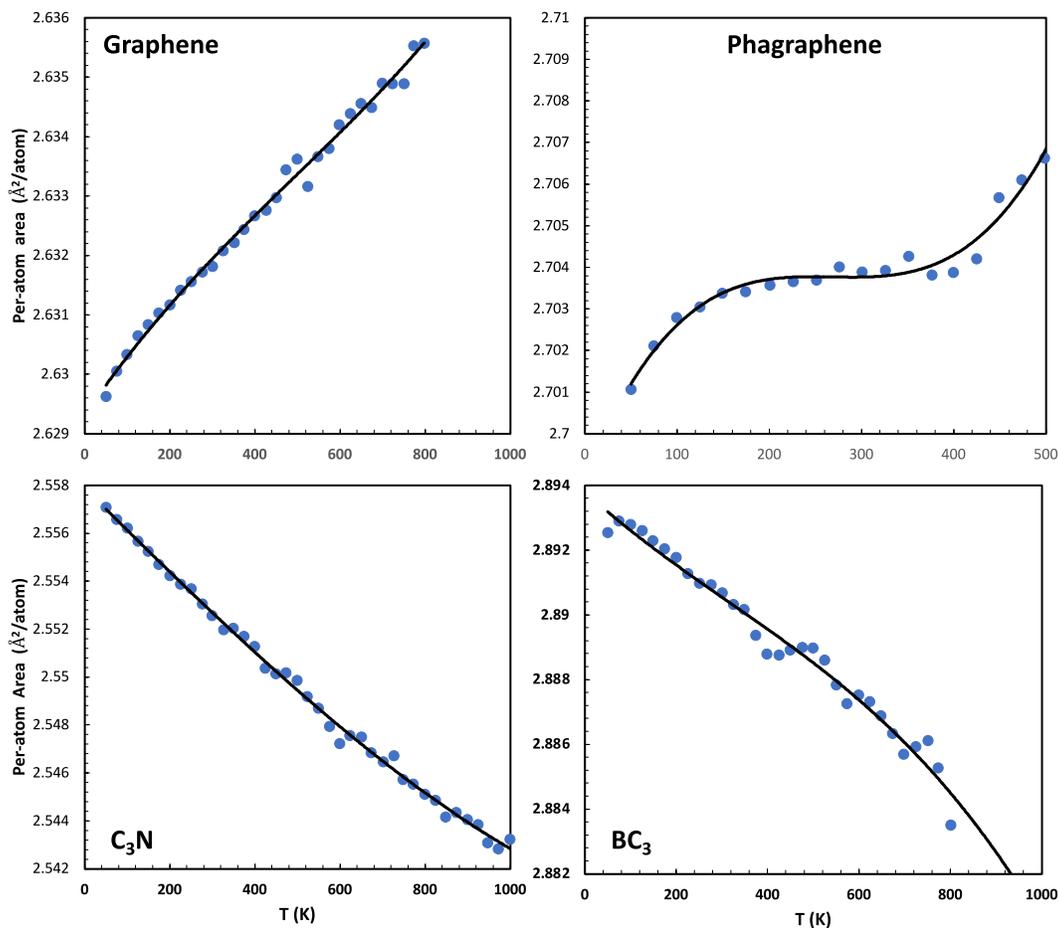


Figure S1. Evolution of the supported monolayers per-atom area as a temperature function for the interaction strength of $\epsilon=4$ meV.

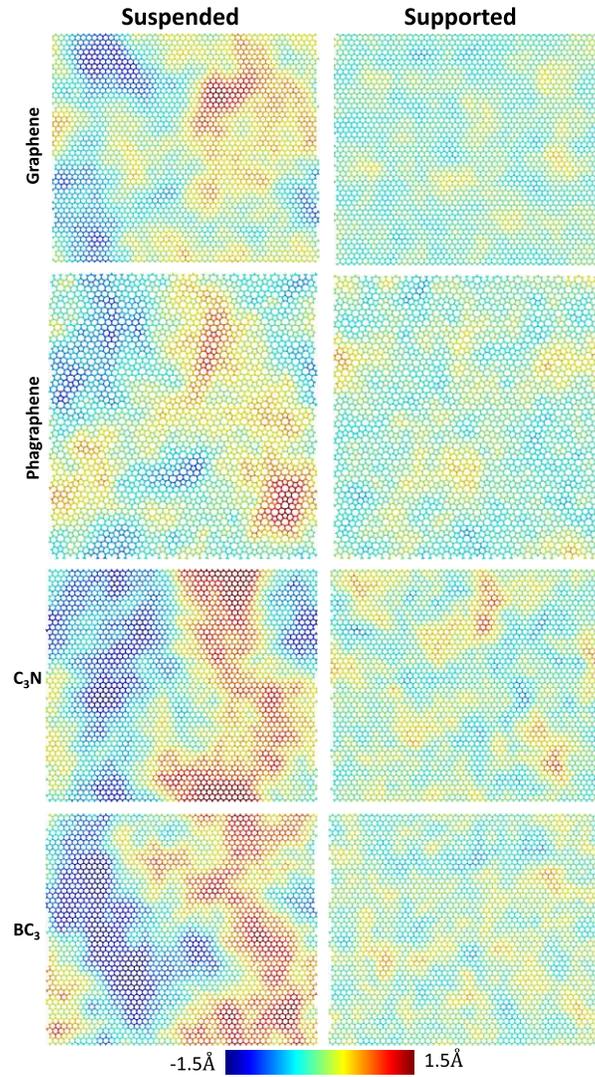


Figure S2. Contour of out-of-plane displacement with respect to the center of mass of considered monolayers in suspended form (without substrate) and supported form (with substrate) in $\varepsilon = 4$ meV.