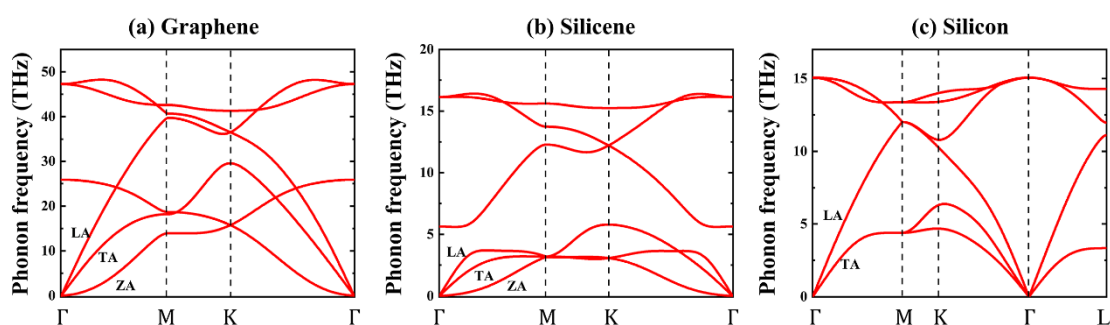




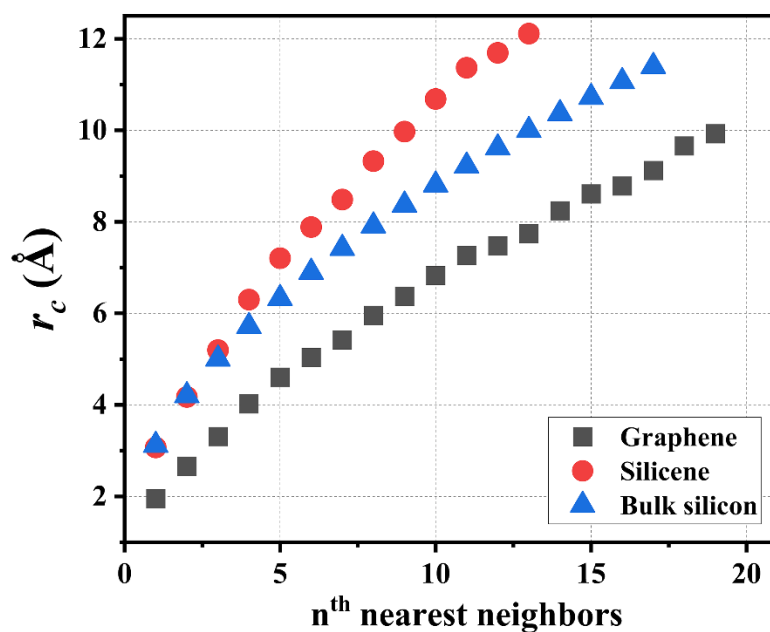
Supporting Information for

# How Hydrodynamic Phonon Transport Determines the Convergence of Thermal Conductivity in Two-Dimensional Materials

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**Figure S1.** The phonon dispersion of (a) graphene, (b) silicene, (c) silicon. ZA, TA and LA branches are marked. The quadratic dispersion of ZA mode is only observed in 2D system.



**Figure S2.** The corresponding cutoff radius ( $r_c$ ) to the  $n^{\text{th}}$  nearest neighbors (NNs) for graphene, silicene, and bulk silicon.