

Electronic Supplementary Information (ESI)

The effect of strain and functionalization on the optical properties of borophene

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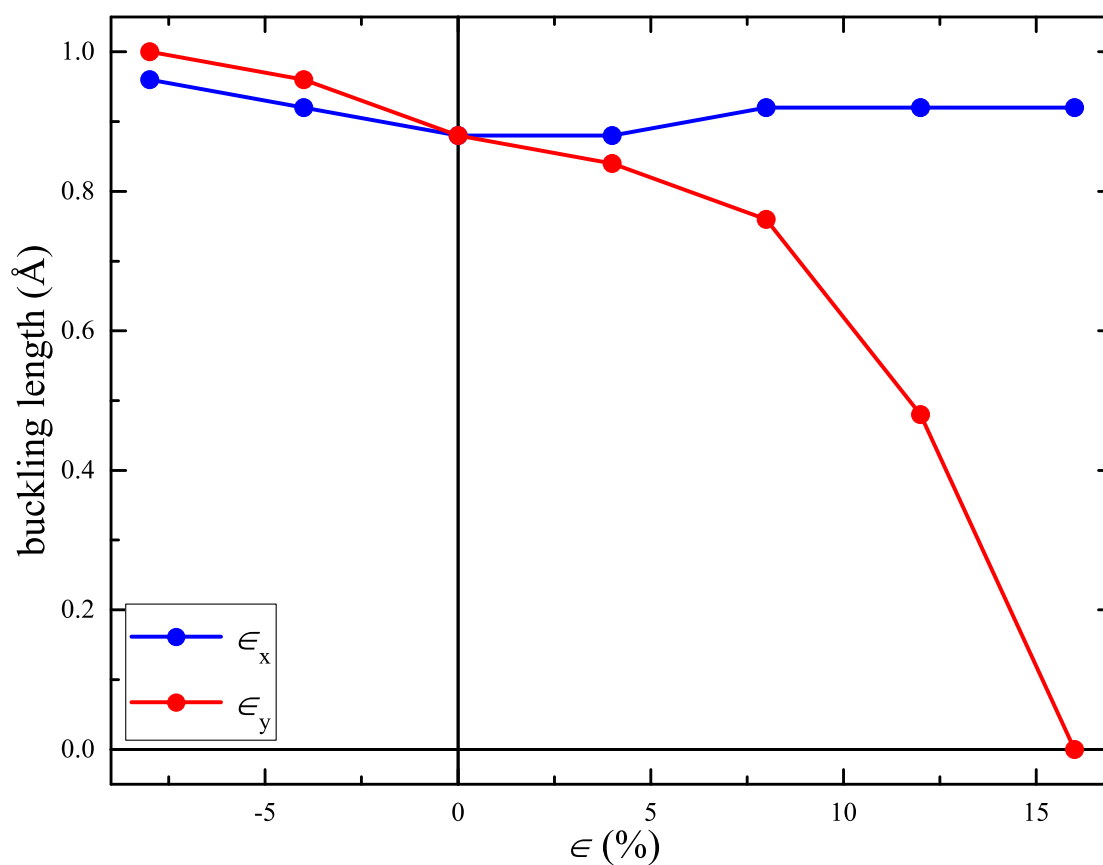


FIG. S1: Variation of buckling length with uniaxial strain.

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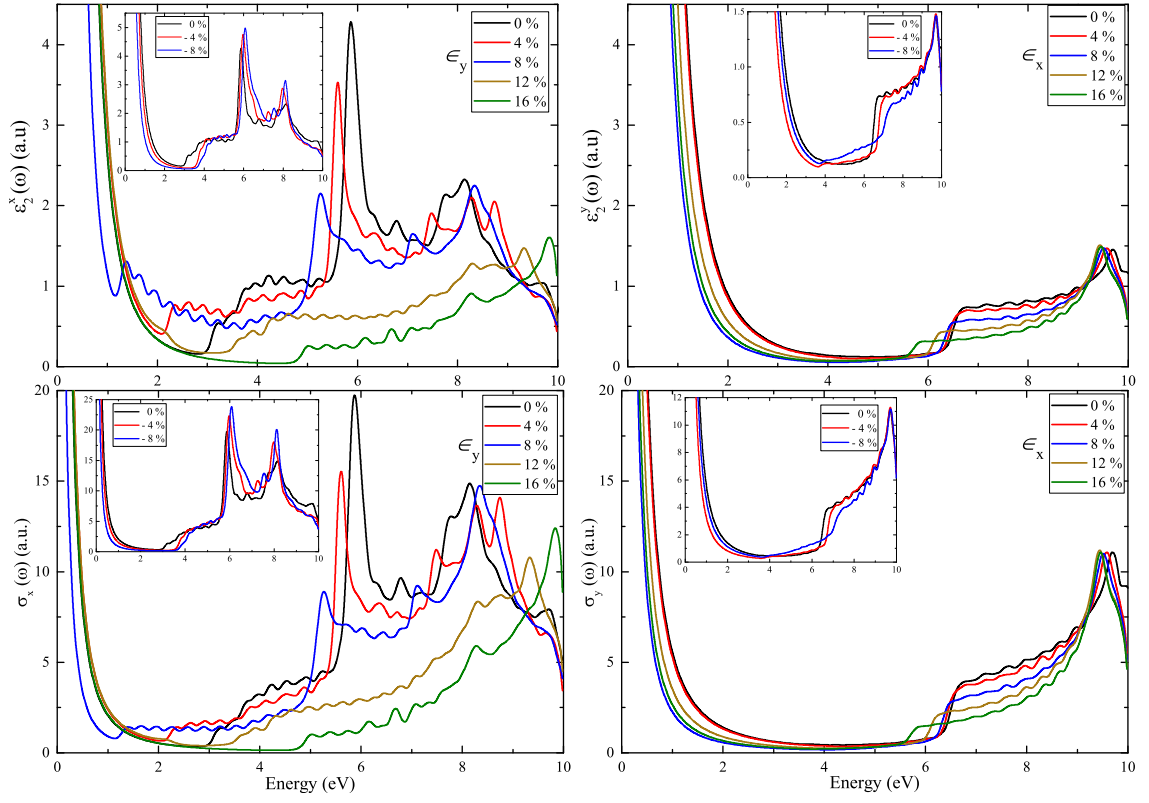


FIG. S2: Frequency dependent imaginary dielectric function and optical conductivity for pristine and strained buckled-borophene.

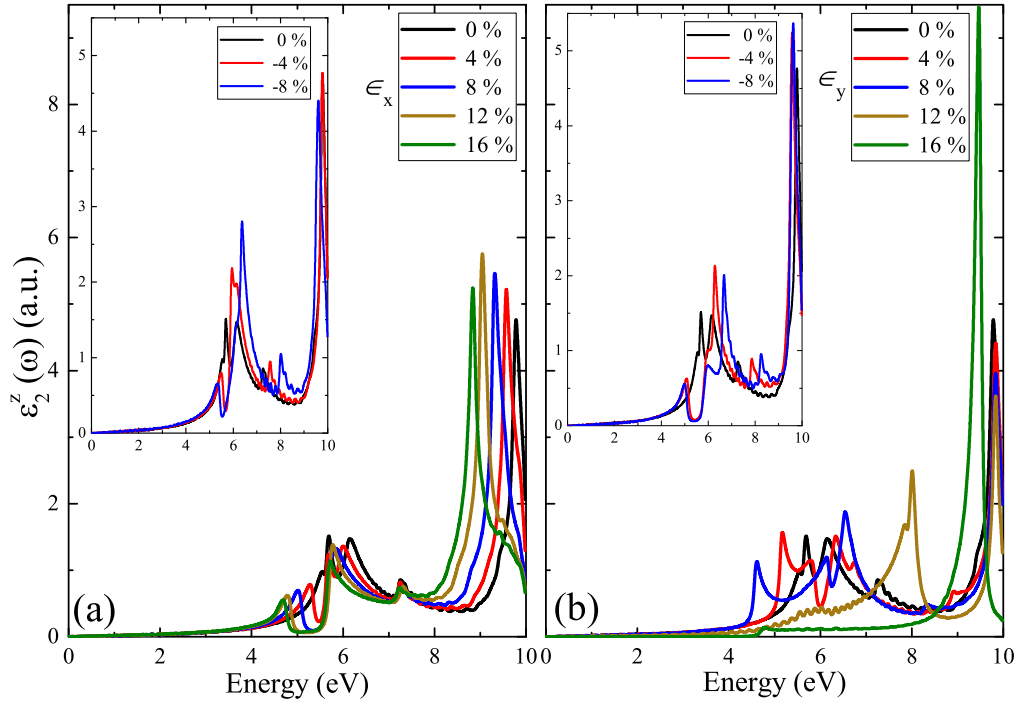


FIG. S3: Frequency dependent imaginary dielectric function ($\varepsilon_2^z(\omega)$) for pristine and strained buckled-borophene along z-direction.

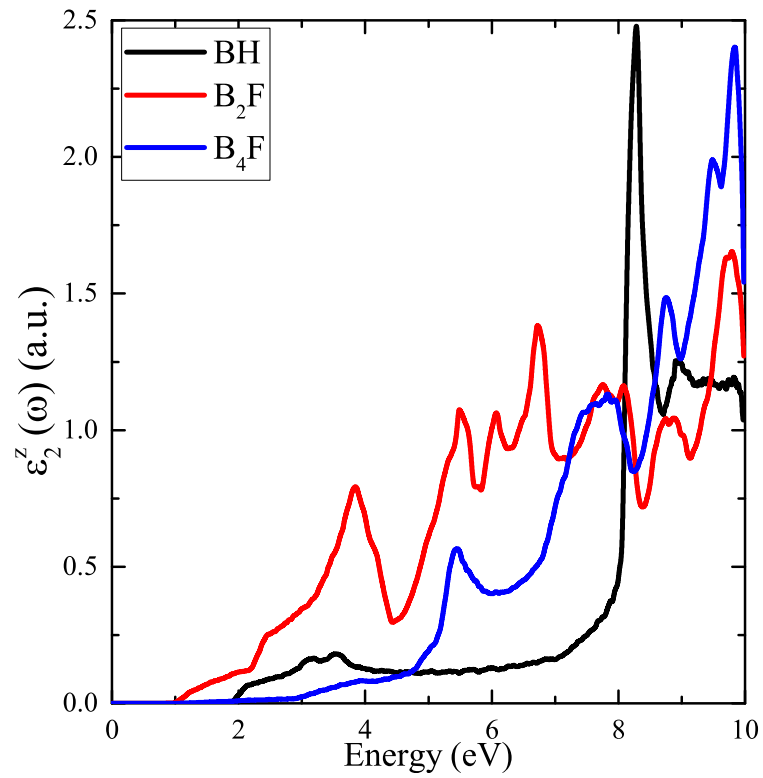


FIG. S4: Frequency dependent imaginary dielectric function ($\epsilon_2^z(\omega)$) of BH, B₄F, and B₂F systems along z- direction.