Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Carbon phosphide nanosheet and nanoribbon: insights on modulating their electronic properties by first principles calculations

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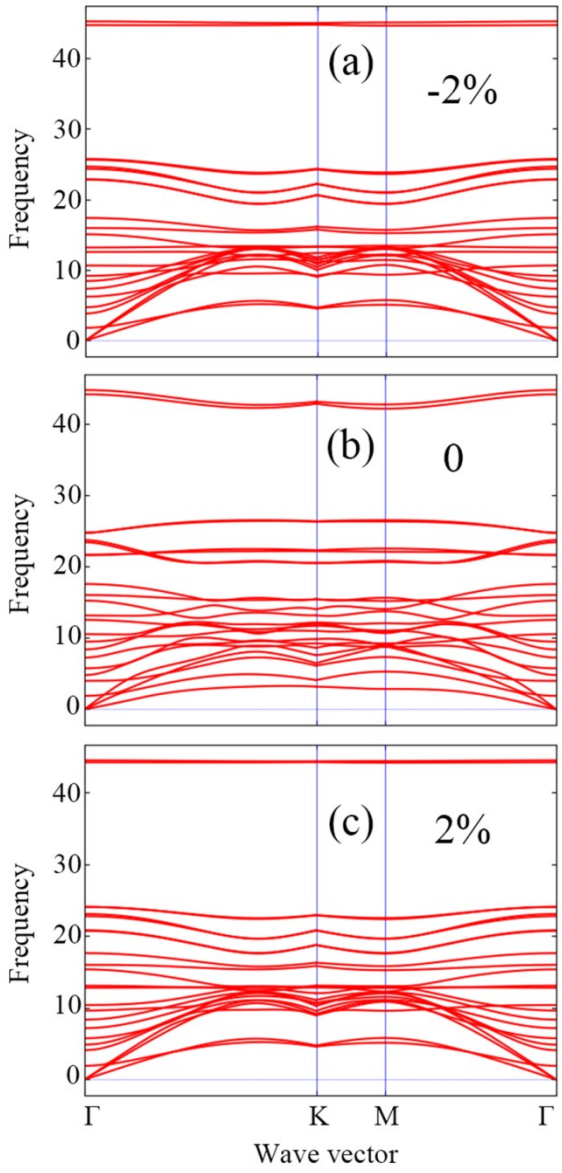

Fig. S1 (a)-(c) Phonon dispersion for 2D CP nanosheets under different strains 0f -2%, 0, +2% along the biaxial direction.

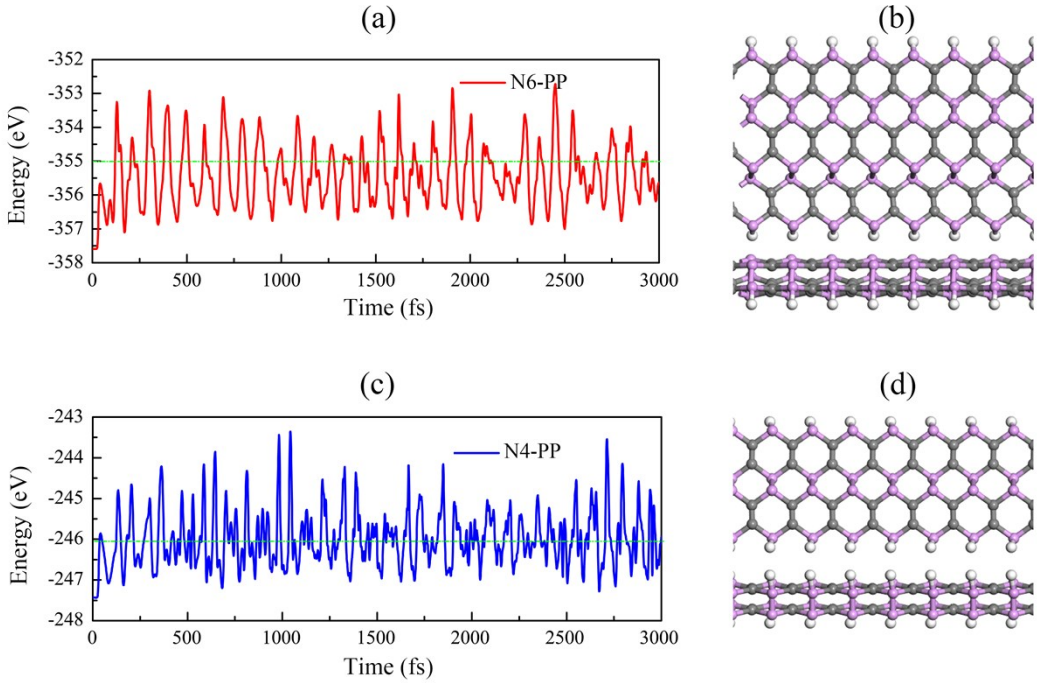

Fig. 2S (a) and (c) Variation of the free energy of N6-PP and N4-PP in the molecular dynamics simulation at room temperature during the time scale of 3.0 ps, respectively. (b) and (d) The final structures of N6-PP and N4-PP in the molecular dynamics simulation.