

Supporting Information

Enhanced photocatalytic performance of Two-dimensional Polar Monolayer SiTe for water splitting via strain engineering

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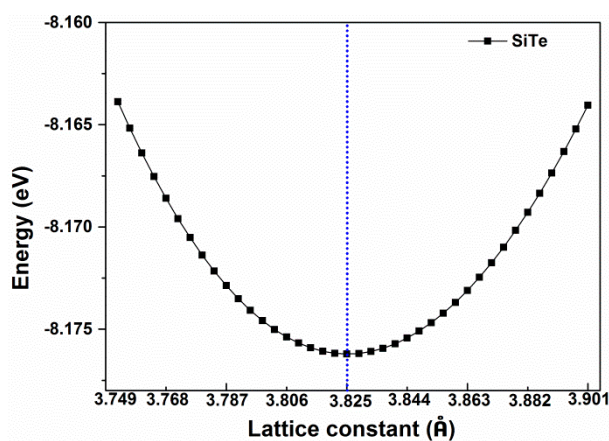


Figure S1. The energy as a function of lattice constant of monolayer SiTe.

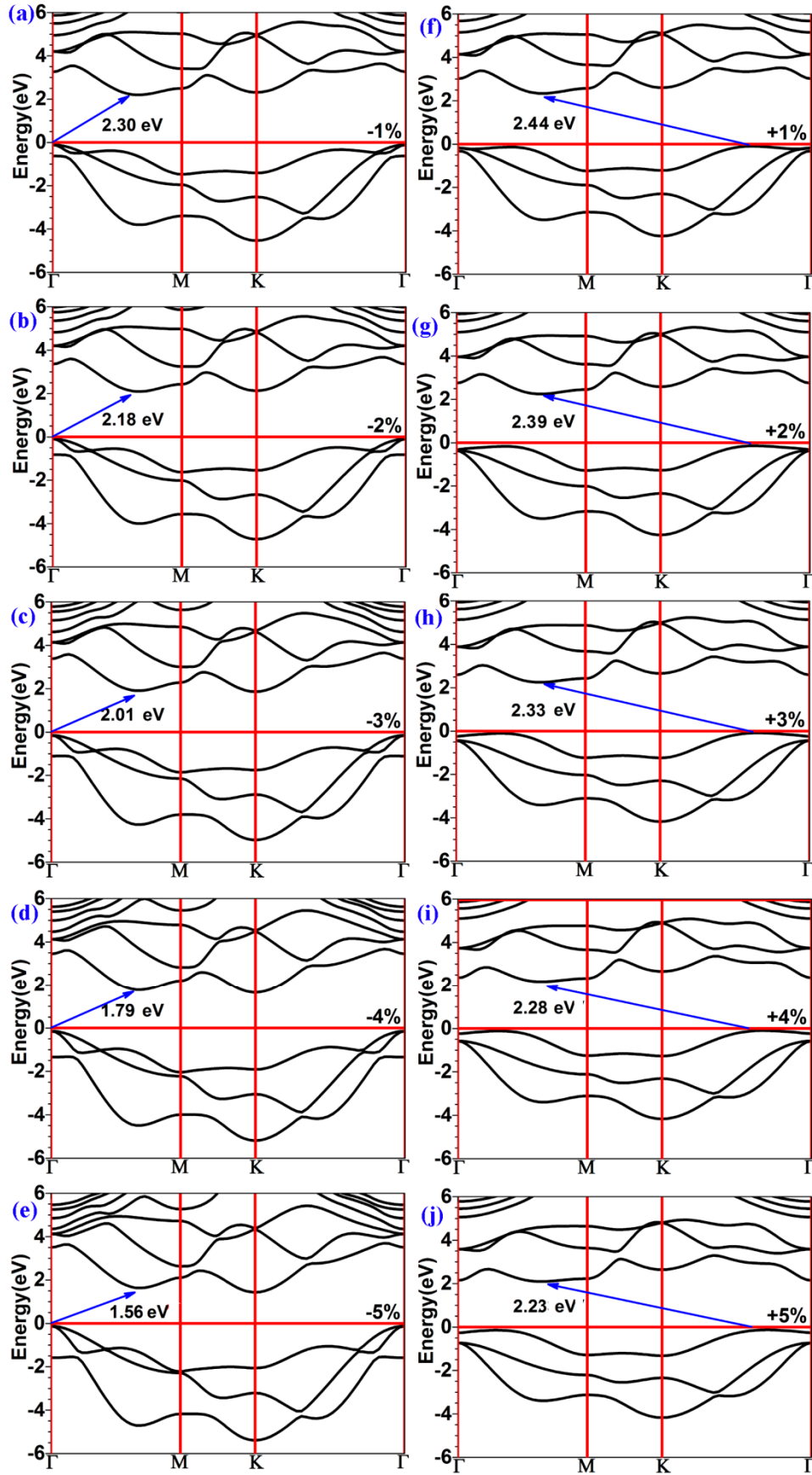


Figure S2. The band structures of monolayer SiTe under strain engineering
(a) -1%, (b) -2%, (c) -3%, (d) -4%, (e) -5%, (f) +1%, (g) +2%, (h) +3%, (i) +4%, (j) +5%

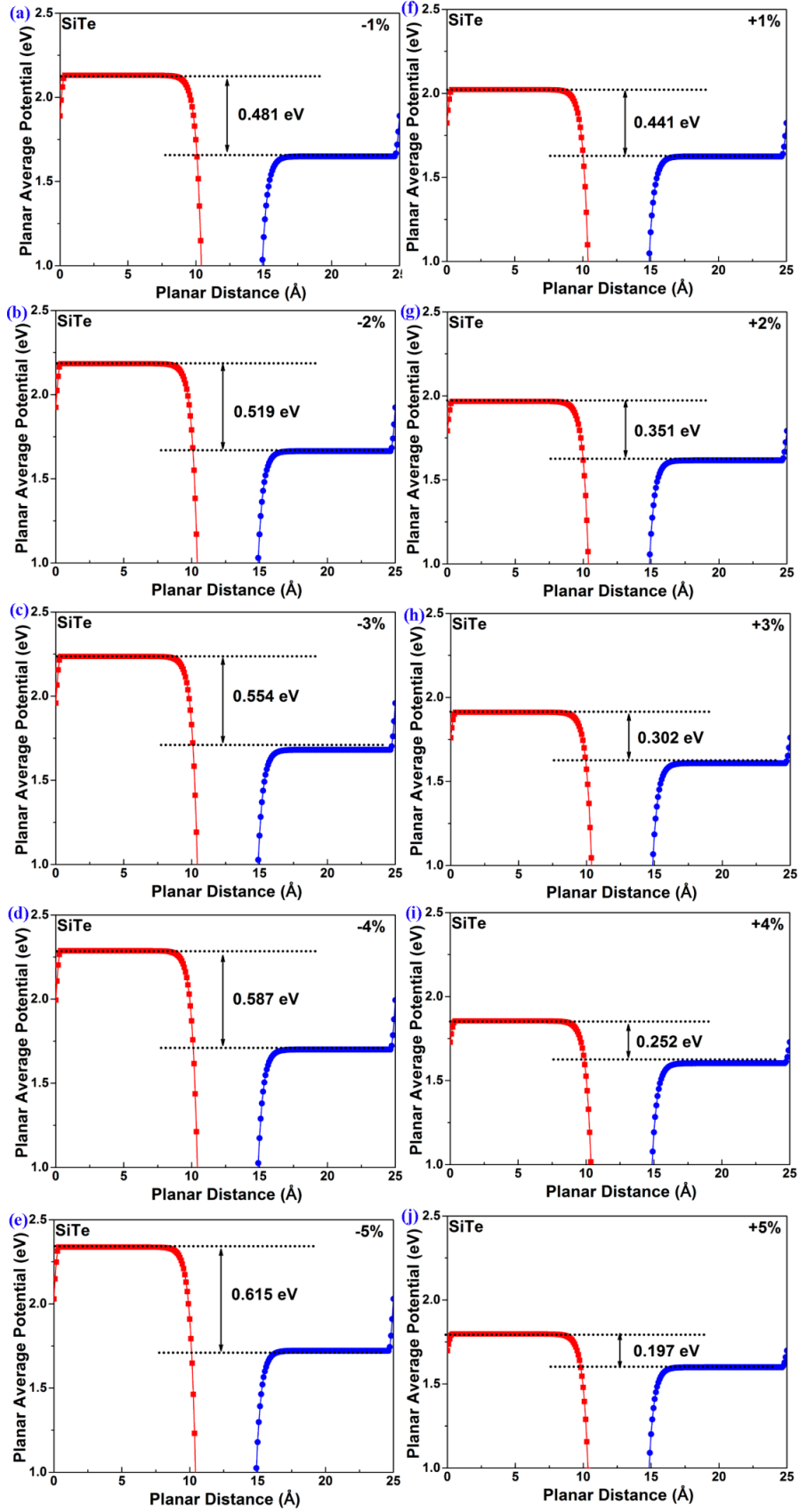


Figure S3. The planar average potential of monolayer SiTe under strain engineering (a) -1%, (b) -2%, (c) -3%, (d) -4%, (e) -5%, (f) +1%, (g) +2%, (h) +3%, (i) +4%, (j) +5%

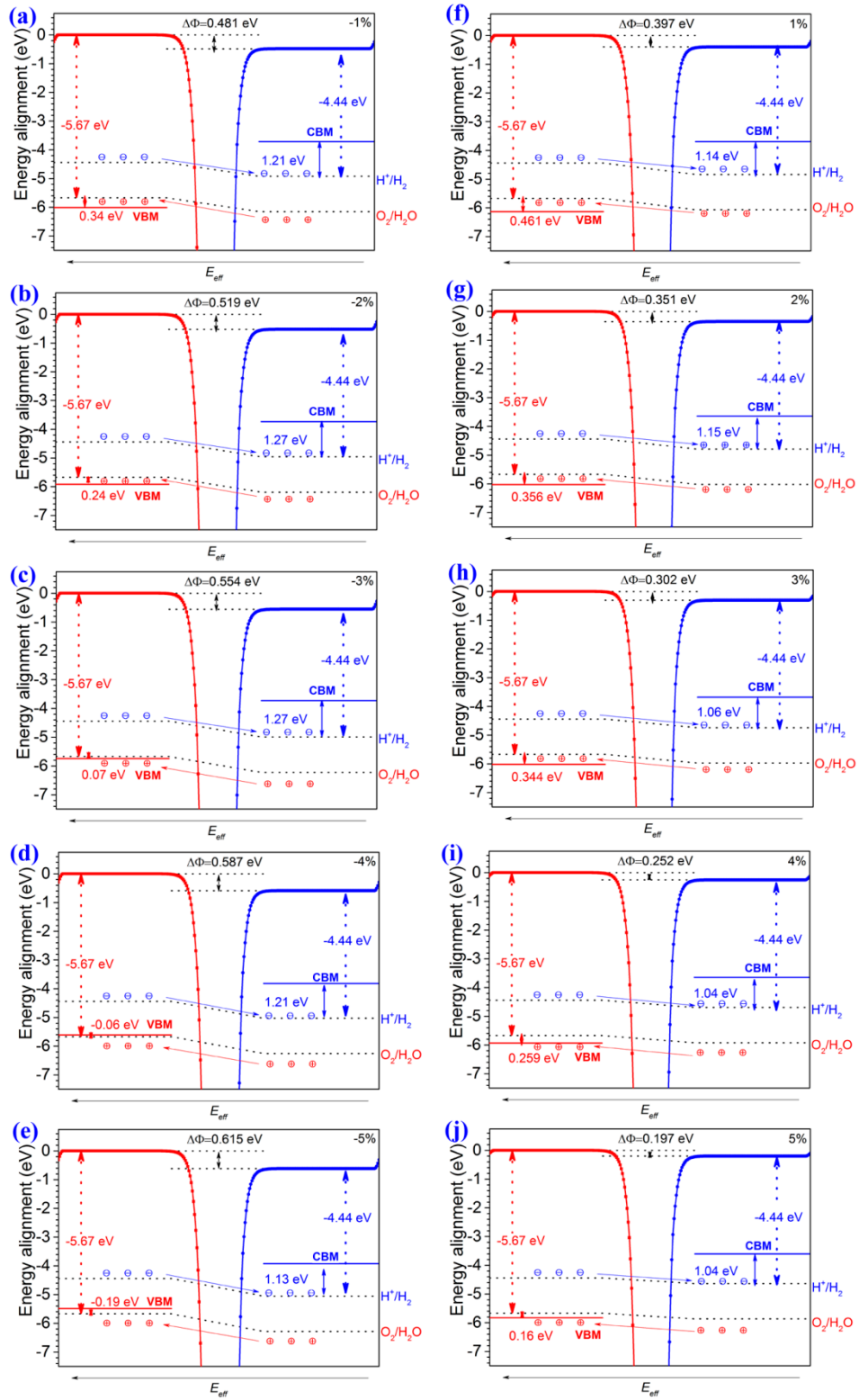


Figure S4. The band alignment of monolayer SiTe under strain engineering
(a) -1%, (b) -2%, (c) -3%, (d) -4%, (e) -5%, (f) +1%, (g) +2%, (h) +3%, (i) +4%, (j) +5%

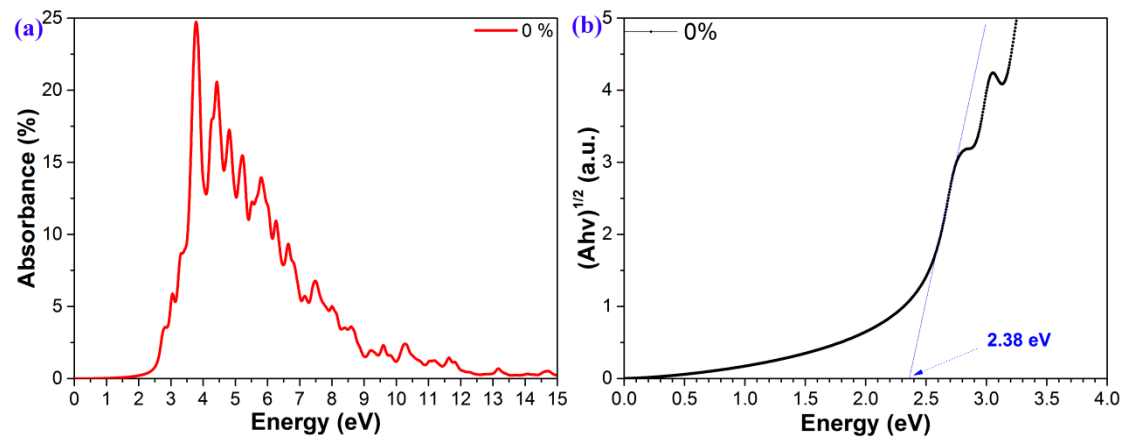


Figure S5. (a) The Absorbance and (b) Absorption edge of 2D polar monolayer SiTe.