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

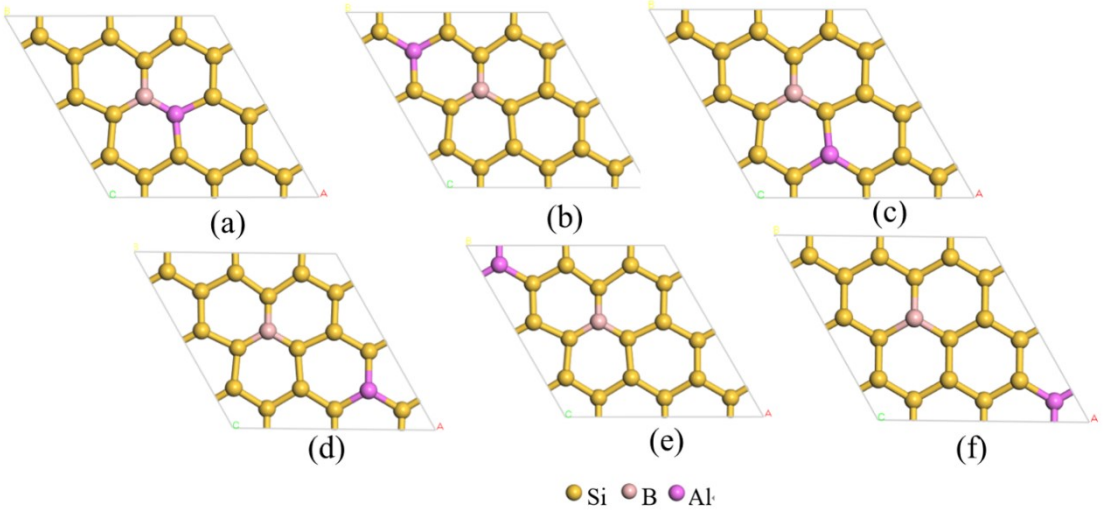

Fig. S1 Structure diagram of B-Al doped silicene at different positions

Table S1 The formation energy(E_f) at different positions

Positions	a	b	c	d	e	f
E_f(eV)	-3.148	-3.143	-3.151	-3.144	-3.146	-3.150

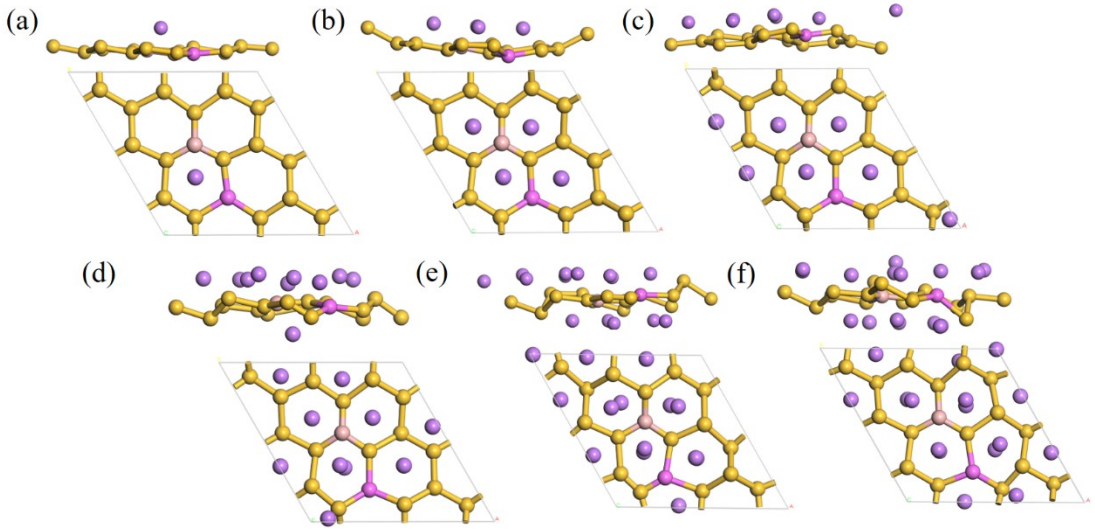

Fig. S2 The side and top views of B-Al doped structures with different amounts of Li ions adsorption after structure optimization.