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Engineering Two-Dimensional Carbon Anodes for Enhanced Lithium Battery Performance

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1 Supporting Info

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Fig. 1 The adsorption sites of (a) Li@Dodecagonal and (b) 2(Li)@Dodecagonal structures in different configurations.

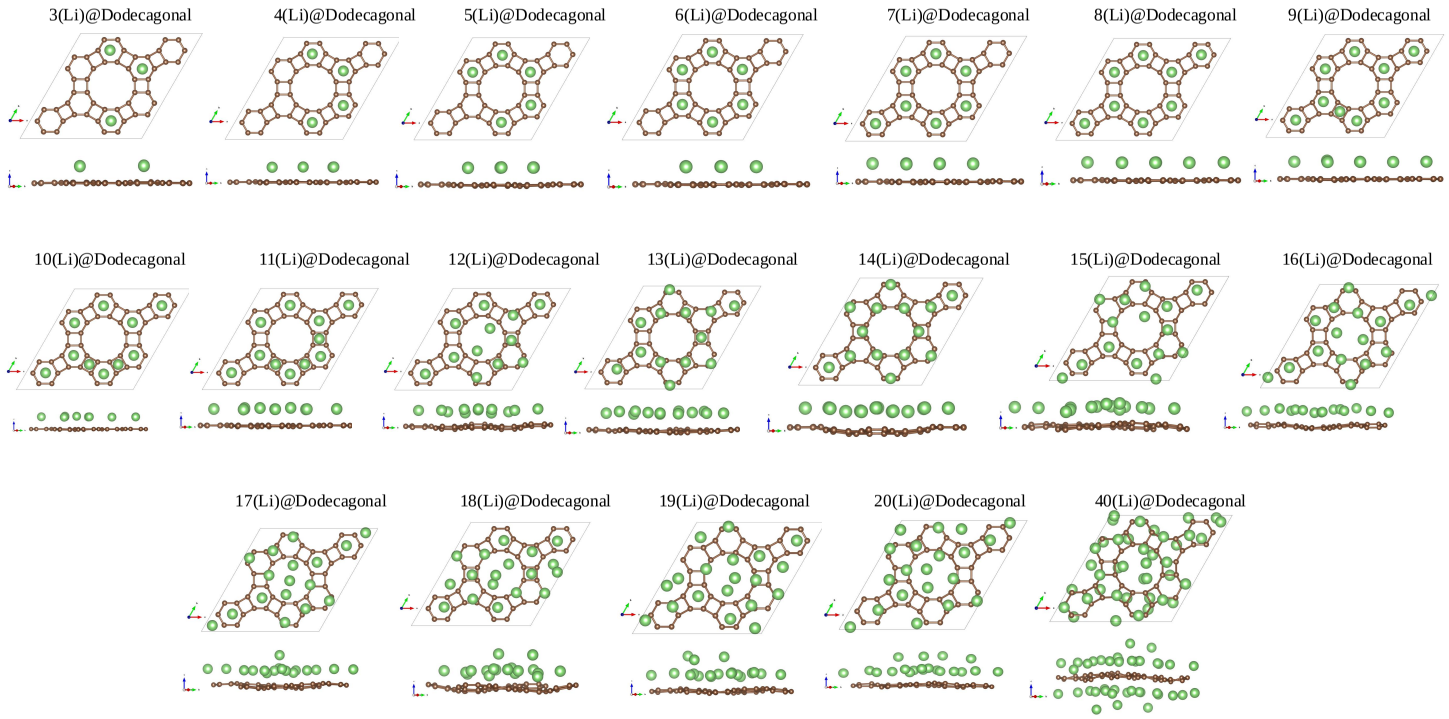

Fig. 2 Li storage in Dodecagonal two-dimensional carbon structure.

Fig. 3 The adsorption sites of (a) Li@Graphyne and (b) 2(Li)@Graphyne structures in different configurations.

Fig. 4 Li storage in Graphyne two-dimensional carbon structure.

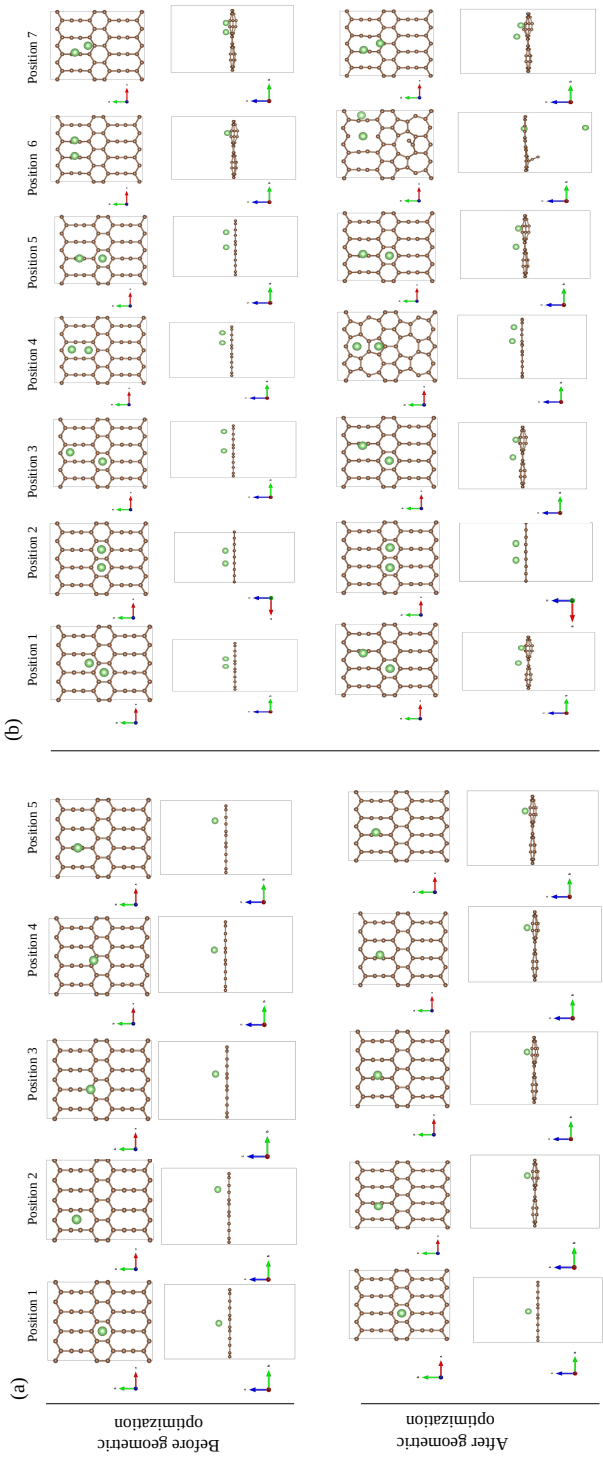

Fig. 5 The adsorption sites of (a) Li@GY5 and (b) 2(Li)@GY5 structures in different configurations.

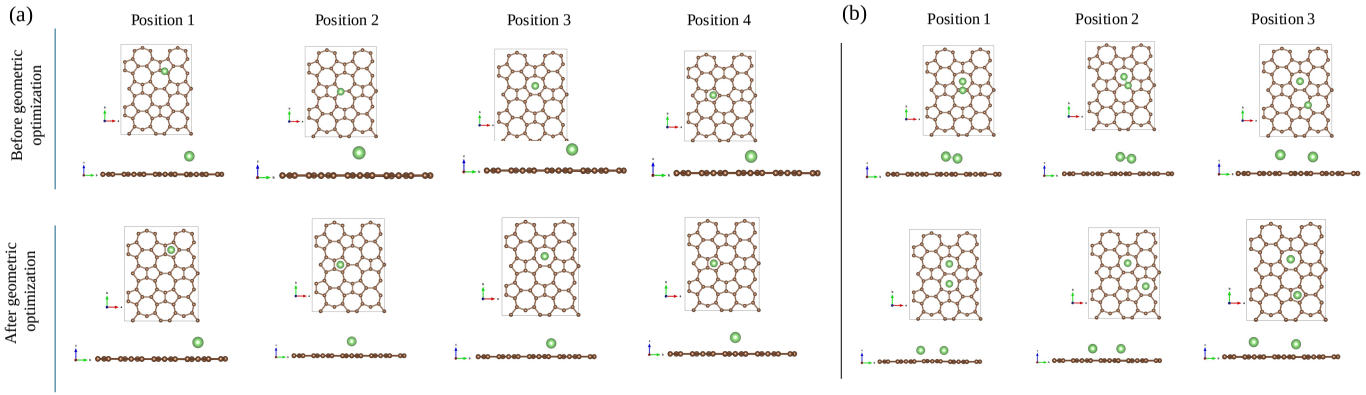

Fig. 6 The adsorption sites of (a) Li@Heacklites(5-7) and (b) 2(Li)@Heacklites structures in different configurations.

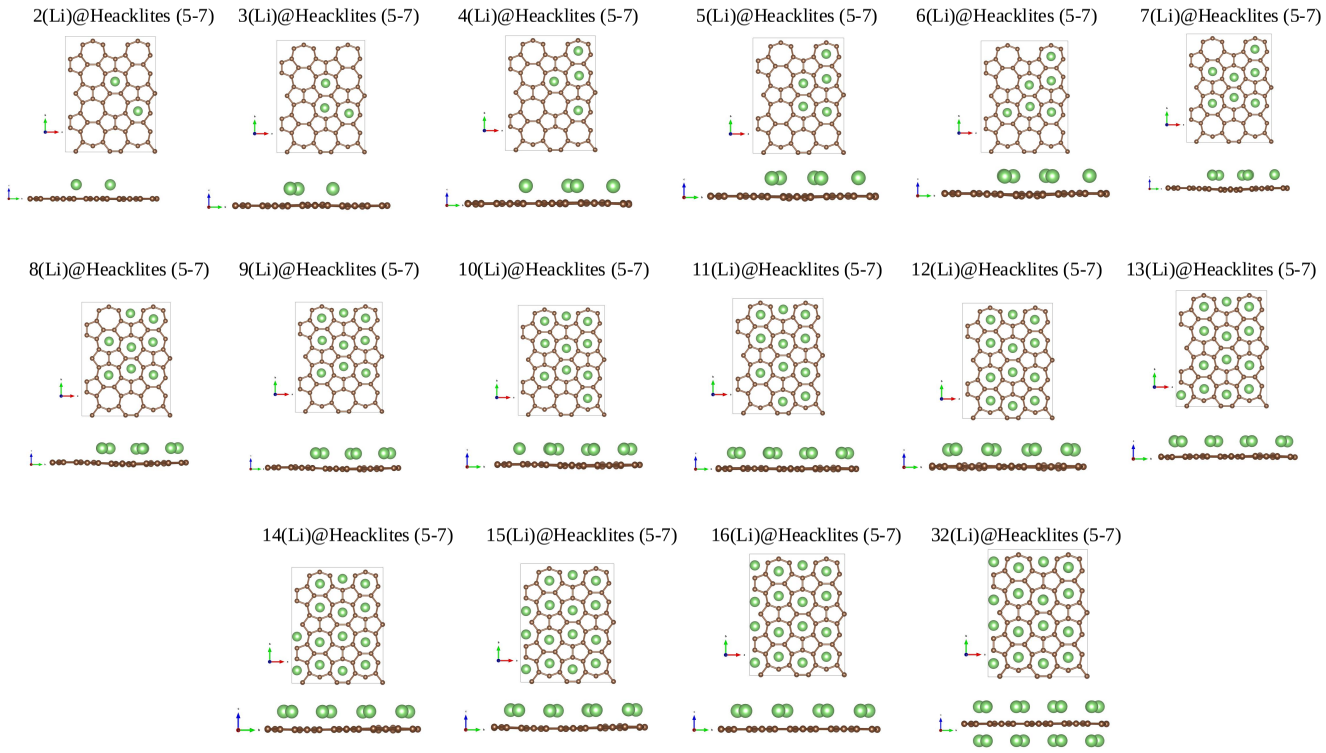

Fig. 7 Li storage in Heacklites (5-7) two-dimensional carbon structure.

Fig. 8 The adsorption sites of Li@Kagome Graphene structures in different configurations.

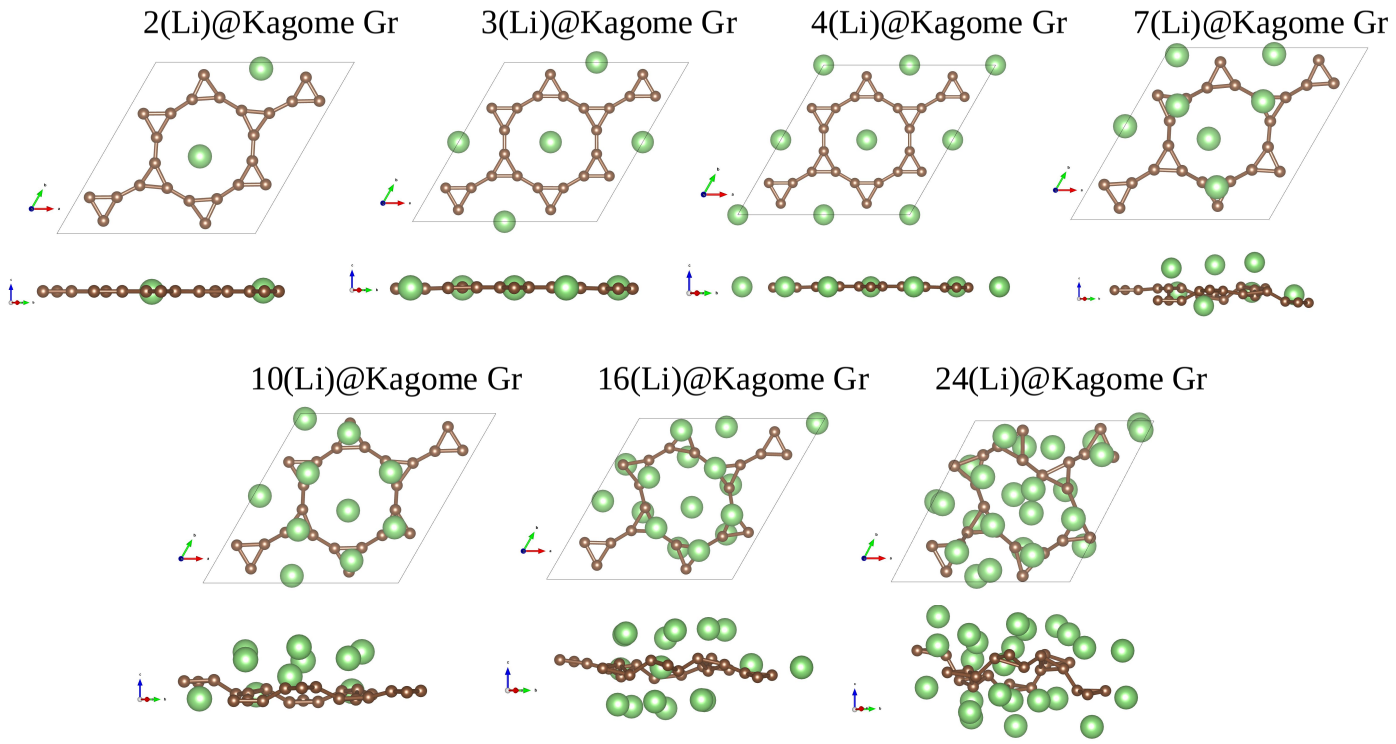

Fig. 9 Li storage in Kagome Graphene two-dimensional carbon structure.

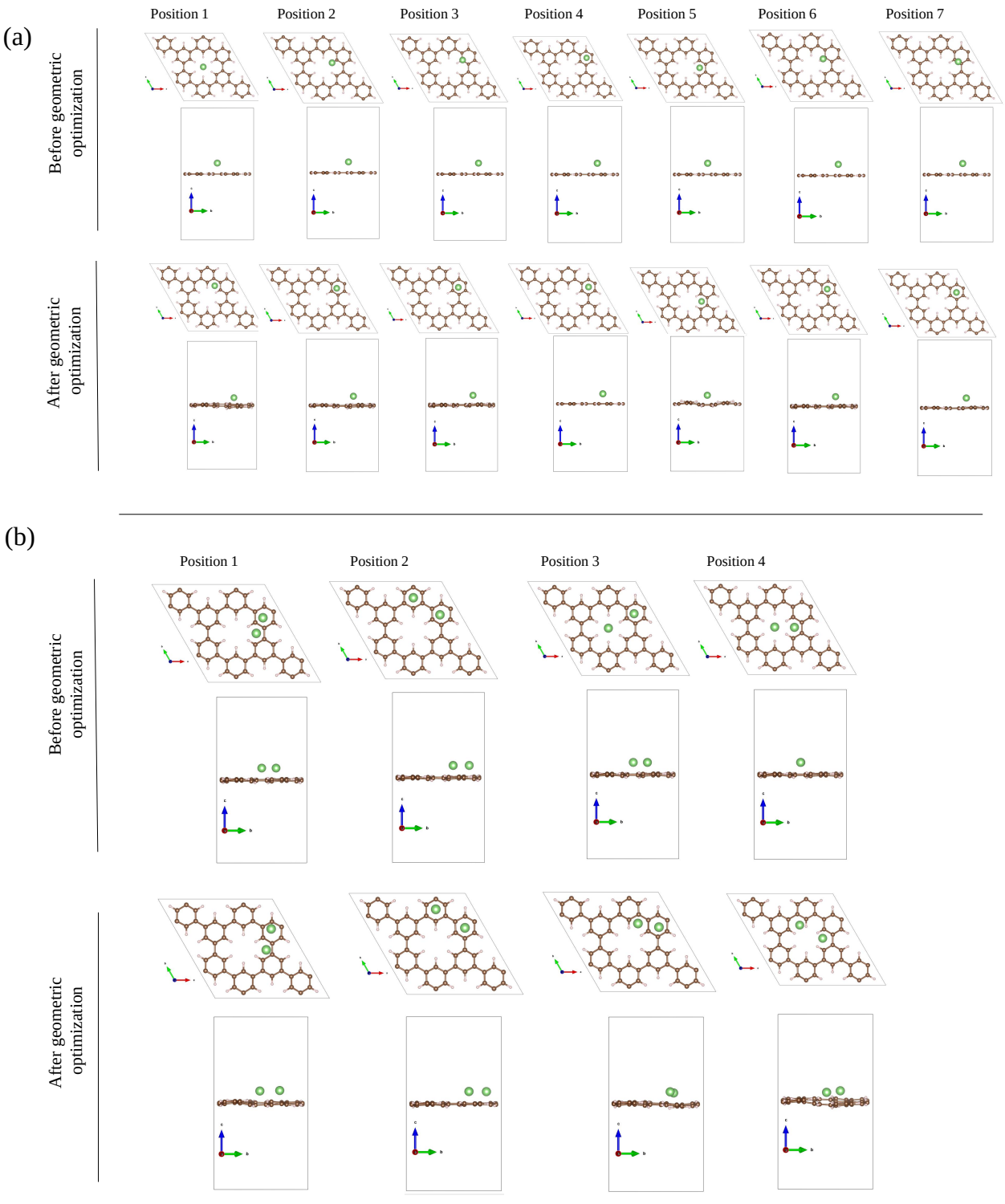

Fig. 10 The adsorption sites of (a) Li@Porus Graphene and (b) 2(Li)@Porus Graphene structures in different configurations.

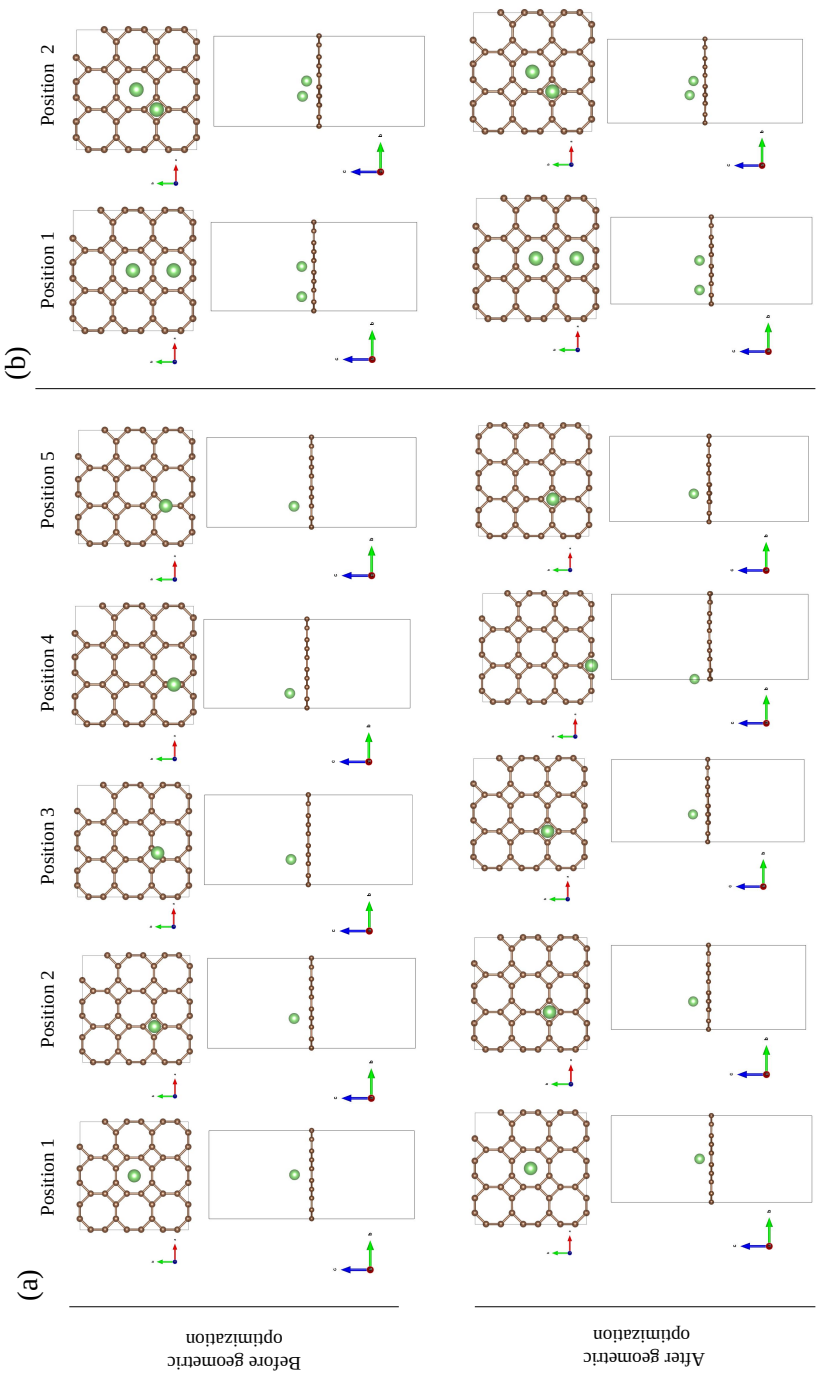

Fig. 11 The adsorption sites of (a) Li@T-Graphene and (b) 2(Li)@T-Graphene structures in different configurations.

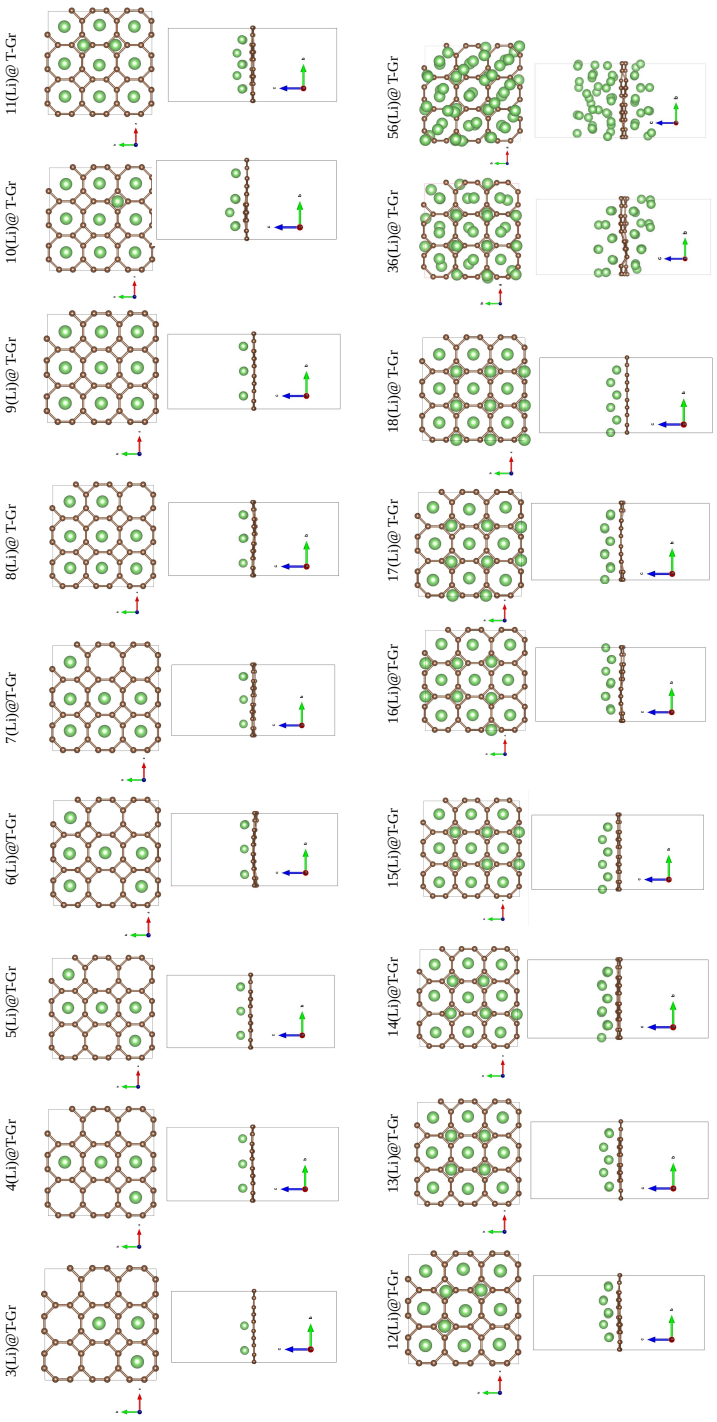

Fig. 12 Li storage in T-Graphene two-dimensional carbon structure.