

Figures for supporting information.

**Nanoscale curvature induced hydrogen adsorption in alkali metal doped
carbon nanomaterials**

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Figure 1 Optimized structures of alkali metal atom doped C_{20} fullerenes (at 5m-ring) their hydrogen adsorption (at 5m-ring)

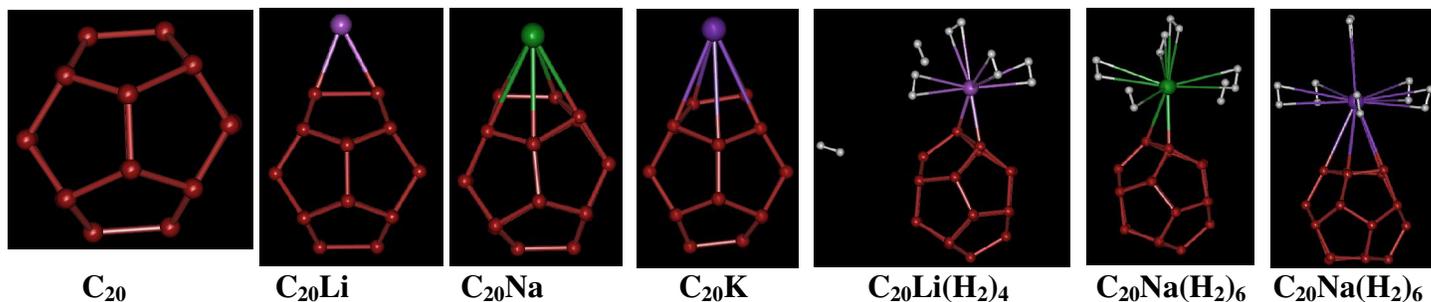


Figure 2a Optimized structures of alkali metal atom doped C_{28} and their hydrogen adsorption fullerenes (at 5m-ring)

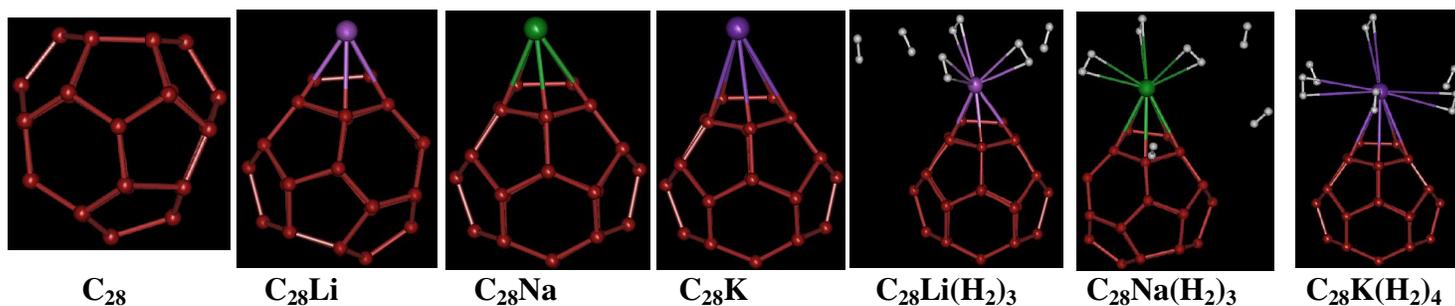


Figure 2b Optimized structures of alkali metal atom doped C_{28} fullerenes and their hydrogen adsorption (at 6m-ring)

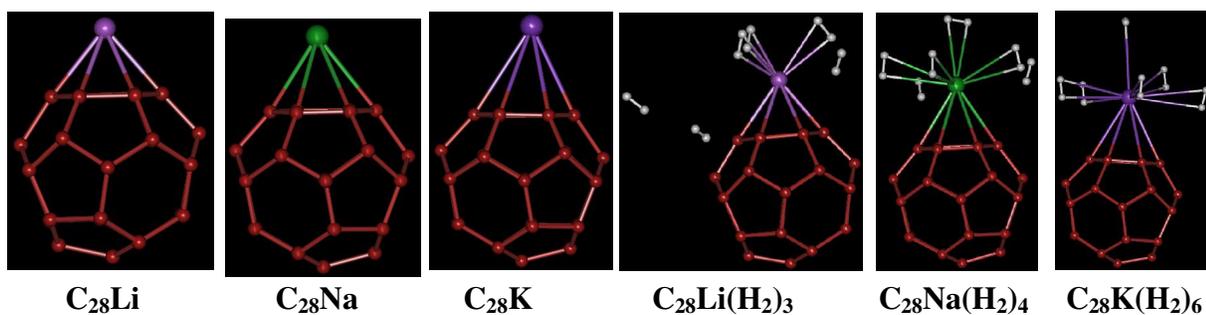


Figure 3a Optimized structures of alkali metal atom doped C_{32} fullerenes and their hydrogen adsorption (at 6m-ring)

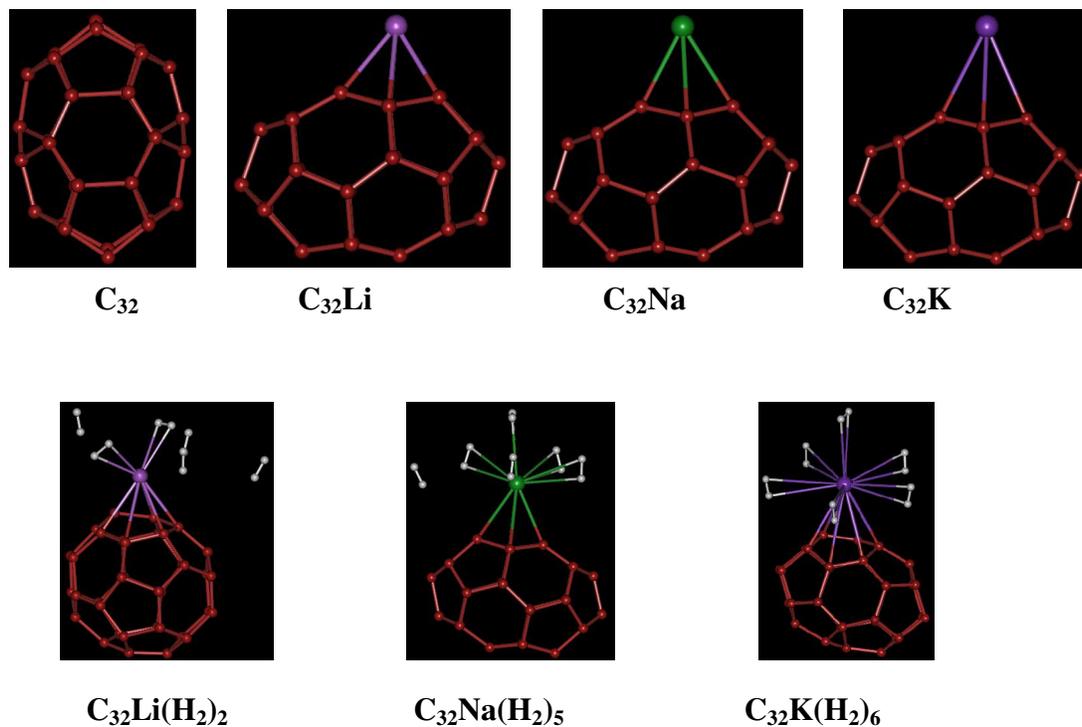


Figure 3b Optimized structures of alkali metal atom doped C_{32} fullerenes and their hydrogen adsorption (at 5m-ring)

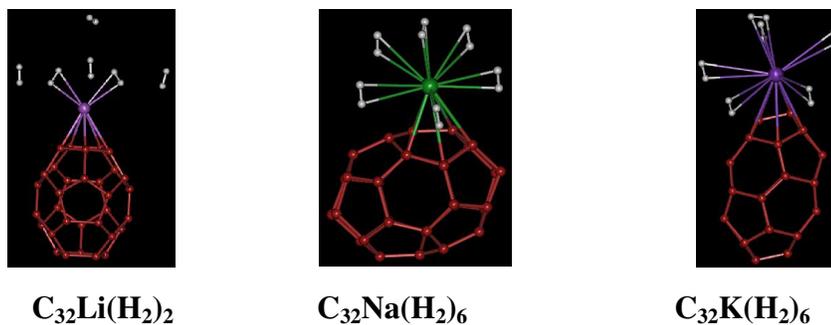


Figure 4a: Optimized structures of alkali metal atom doped C_{36} fullerenes and their hydrogen adsorption (at 5m-ring)

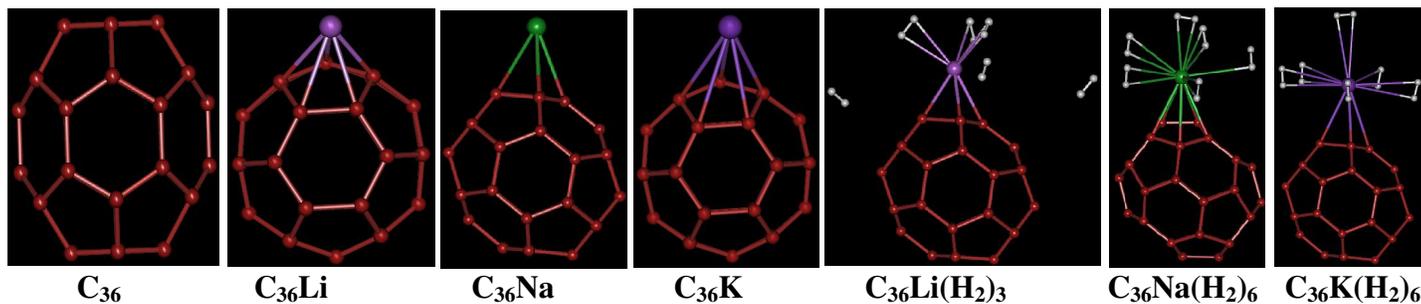


Figure 4b: Optimized structures of alkali metal atom doped C_{36} fullerenes and their hydrogen adsorption (at 6m-ring)

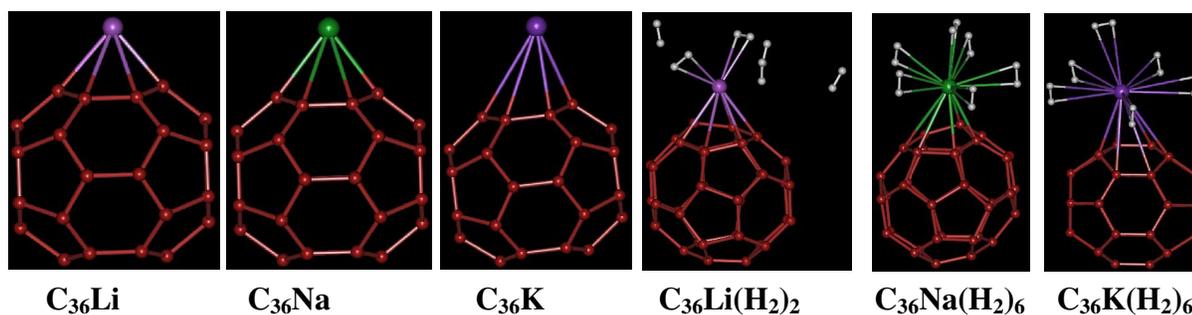


Figure 5a: Optimized structures of alkali metal atom doped C_{60} fullerene and their hydrogen adsorption (at 6m-ring)

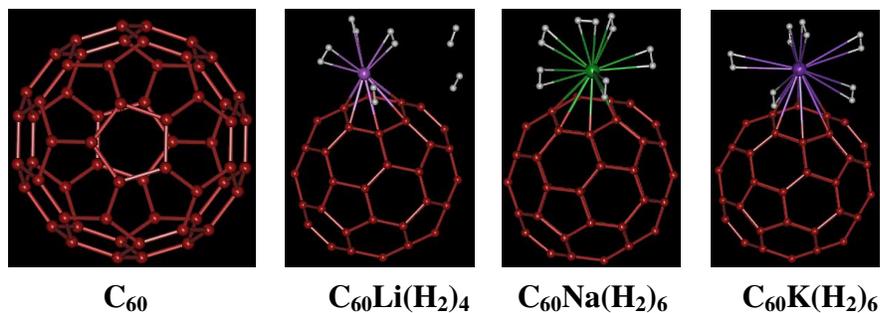


Figure 6a: Optimized structures of alkali metal atom doped C_{70} fullerenes and their hydrogen adsorption (at 5m-ring)

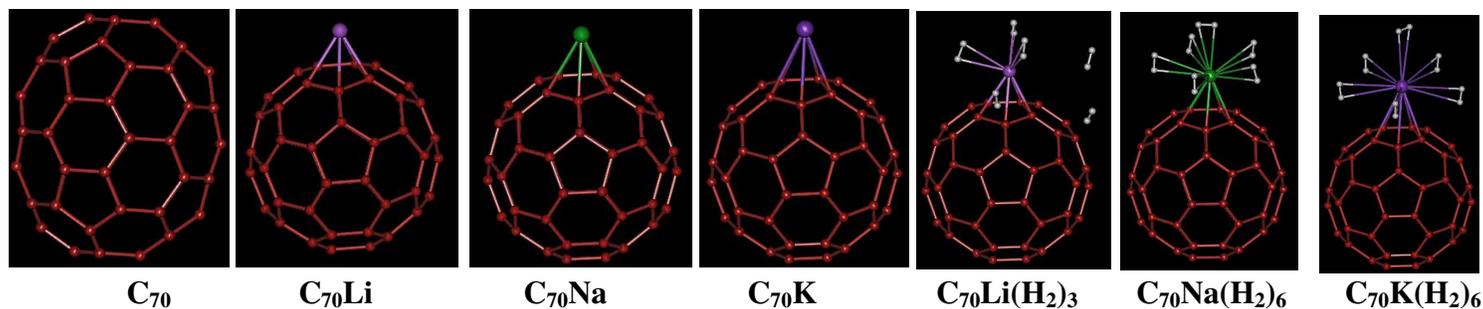


Figure 6b: Optimized structures of alkali metal atom doped C_{70} fullerenes and their hydrogen adsorption (at 6m-ring)

