

عنوان مقاله:

Can Nitride-boron Nanocage Sense or Capture Carbon Monoxide? A Density Functional Theory Study

محل انتشار:

چهارمین همایش پیل سوختی (سال: 1389)

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خلاصه مقاله:

Using first principles calculations, we have investigated the adsorption of CO molecule on boron-nitride nanocage (BN)₃₆ as a adsorbent. Our calculations were performed at the B3LYP level of density functional Theory along with standard split valence basis set 6-31G*. By examining the molecular orbitals and binding energies our results indicate .that B₃₆N₃₆ is not sensitive to carbon monoxide and just a physical adsorption occurs

کلمات کلیدی:

greenhouse gas, (BN)_n cluster, Inorganic fullerene, carbon monoxide, density functional theory

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