



سمینار هفتگی گروه ماده چگال نرم

Thermo-mechanical properties of graphene

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The formation of atomic nanoclusters on the graphene sheets has been studied in the computational framework. Here we have employed classical molecular dynamics simulation. Both transition and alkali metals have been investigated. Transition metallic atoms like Au, Ag and Cu are aggregated and form various size nanoclusters while alkali metallic atoms are deposited and make a few atomic layer above graphenes sheet. Potassium atoms laterally diffuse and wet the surface and form a single layer above the sheet. All added atoms change morphology of the surface and highly enhance its randomness.

زمان: شنبه ۸۸/۶/۷ ، ساعت : ۱۵:۳۰

مکان: آمفی تئاتر دانشکده فیزیک

قطب ماده چگال و سیستم‌های پیچیده