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Computational simulations of graphene and carbon nanotubes

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Abstract content
   (Max 300 words)

Molecular dynamics simulations are used to study the relative stability of graphene and carbon nanotubes. The formulation of the Tersoff bond-order potential was used to investigate the energetic stabilities and thermodynamics properties through a range of temperature. The structural properties were studied using the radial distribution effects functions. The thermodynamics effects were studied using the energy-temperature plots. Similarities and differences in graphene and carbon nanotubes are discussed.

Apply to be
 consider for a student
   award (Yes / No)?

YES

Level for award
 (Hons, MSc,
   PhD)?

MSC

Main supervisor (name and email)
and his / her institution

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Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

NO

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