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XRD and AFM studies of graphene and single-walled carbon nano tube

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Abstract content (Max 300 words)
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Graphene and single-walled carbon nanotubes were studied using X-ray diffraction (XRD) and atomic force microscopy (AFM). The lattice constants for both materials were determined and agree well with our computational calculation results. When preparing carbon nanotubes for AFM characterization, three solvents chloroform, toluene and ethanol were used. Chloroform was found to be the best solvent. The diameter of single-walled carbon nanotubes were determined and agree well with literature.

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

No

Level for award (Hons, MSc, PhD, N/A)?

MSC

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

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