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X-ray diffraction analysis for main peaks and the noises of single and multi-walled carbon nanotubes

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The XRD analysis for different types of carbon nanotubes shows the main two peaks at 2Θ ≈ 25◦ and 43◦ with many noises for all the line from 5◦ to 80◦. Most of noises were removed by using many computerized programs which depend for this purpose, while it is referred to nature of tubular structure with one or many sheets of graphene. The nature of tubular structure influence with diffraction beams of diffraction x-ray which can be explained by Bragg's law and Scherer equation. The most of this noises represent and refer to the nature of structure which reduces with increase graphene sheets, or when transfer from graphene to graphite form. Thus the works concern with important fact which is removing the noise delete and hiding the specific proprieties of CNTs..

Biography

Firas H. Abdulrazzak has completed his PhD at the age of 39 years from Babylon University College of science / chemistry department. He is working in chemistry Department\ College of education for pure Science\ Diyala University. He has published more than 22 papers in reputed journals. His interest focuses on synthesis and applications of nano-materials and clean energy. He obtained two patents in synthesis multi-walled carbon nanotubes.

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