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Rapid thermal annealing effect on characterizations of CNW on Si substrate by chemical vapor deposition

In the research, Carbon nano wall (CNW) is synthesized by chemical vapor deposition on polyimide substrate. The effect of gas ratio of on the structure, and electrical properties of CNW has been studied. Scanning electron microscope(SEM) studies of the diameter of CNW synthesized under various gas ratios were measured. The surface and cross section of CNW were analyzed by SPM and FE-SEM. Raman spectroscopy was used to determine the difference in crystalloid with growth time, which was quantified by the ratio of ID / IG. Resistance characteristics were analyzed to analyze the electrical characteristics of CNW.

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