

[NP-09]

Field emission property of CNT films manufactured by thermal CVD method on different types of substrate

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We report a field emission properties of carbon nanotube(CNT) films manufactured by thermal chemical vapor deposition method at atmospheric pressure. The working gas is a mixture acetylene and argon. Samples are grown on Ni/Si substrate and on C/Si. The CNTs are characterized by using the scanning electron microscope(SEM) and the transmission electron microscope(TEM). Field emission measurement is carried out at the high vacuum. We compared the field emission data of CNTs fabricated on different types of substrate.