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Abstract:

Carbon nanotube (CNT) are recognized originally by Sumio lijima in 1991.Graphene sheets are rolled up to arrange CNTs. CNTs have a large number of physical properties. Due to having large choice of mechanical and optical properties CNTs will show many potential applications. The carbon nanotubes (CNT) were fancied onto the $Si/SiO_2/CO$ substrate by chemical vapor deposition (CVD) technique. We tend to conduct the SEM analysis to verify the fabrication of CNTs grownup on $Si/SiO_2/CO$ substrate. We also observed the SHG intensity from the interface of CNTs/Peptides as a function of manually tunable wavelength and variant concentration of peptide molecules. We found highest SHG signal from the wavelength of 532 nm as the incident light was 1064 nm and it was observed that the SHG intensity increased with the increase of peptide concentrations on the surface of CNTs.