

# Carbon nanotube-polySciff base hybrid materials

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New soluble conjugated polySciff base containing triphenylamine used as hole transport materials has been synthesized and characterization. A hybrid material of carbon nanotubes (CNTs)-polySciff base was prepared by mixing in organic solution. The structure characterization by X-ray diffraction (XRD), Fourier transform infrared (FT-IR), ultraviolet (UV)-visible spectrum techniques showed that some CNTs were linked up by polySciff base, which appears to be like a net work including polySciff base fiber and nanotubes. This net work results in the hybrid material having highly conductivity with new conductive passageway. The conductivity and thermal properties of hybrid materials depend on the content of CNTs.

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