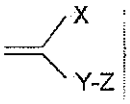
Groenendaal, J. Dhaen, J. Manca, J.V. Luppen, E. Verdonck, L. Leenders, *Synth. Met.* 2003, 135-136, 115.).

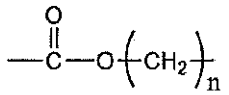
The Applicant has now discovered that certain combinations of ionic monomers comprising phosphonyl imide or sulfonyl imide functions or alternatively phosphoric acid functions, in the form of homopolymers or block or non-block copolymers, allow good dispersion of CNTs in aqueous solutions and that the films obtained using these dispersions, once the water has evaporated, afford a very good transmission-conductivity compromise.

Summary:

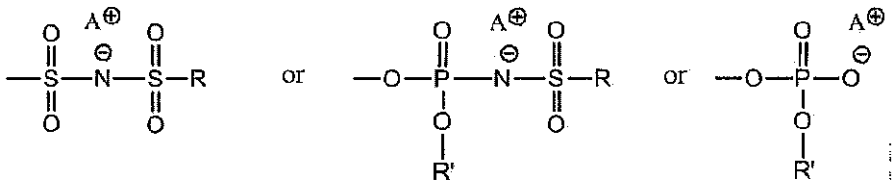
In an aspect, there is provided a composition comprising carbon nanotubes and an electrolytic (co)polymer, this electrolytic (co)polymer comprising monomers corresponding to formula I.

I : 

$X = H, CH_3$

Y =  or aryl

n = 2-6

Z =  or or

R = alkyl or F, CF_3, $(CF_2)_nF$ A = H, Li, K, $N(R')_4$ R' = alkyl, aryl

In another aspect, there is provided a conductive transparent electrode obtained using a composition as defined above.

In another aspect, there is provided the use of the transparent electrode as defined above in the fields of OLEDs (organic light-emitting diodes) or in photovoltaic organic cells.

Detailed description: