

STRUCTURE AND ELECTROCHEMICAL
PROPERTIES OF AQUEOUS SUSPENSIONS
OF FUNCTIONALIZED SINGLE- AND
MULTIWALLED CARBON NANOTUBES

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S u m m a r y

The structure of single- and multiwalled carbon nanotubes (CNTs) functionalized with carboxyl groups in water is investigated by means of atomic force microscopy. The electrochemical properties of the water systems containing both types of CNTs are investigated, by using the cyclic voltammetry and electrochemical impedance spectroscopy techniques. The results may be useful for the clarification of the mechanisms of specific biological activities of CNTs and their applications in various fields of nanobiotechnology.