

## Creating carbon nanotubes microenvironment in surfactant water solutions

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### Abstract

© 2017 Trans Tech Publications, Switzerland. The infrared absorption spectra of aqueous dispersions of carbon nanotubes in the presence of surfactants and alkali metal salts in the frequency range from 1000 cm<sup>-1</sup> to 3000 cm<sup>-1</sup> have been studied. The possibility of controlling the characteristics of local environment of carbon nanotubes by varying external electrolyte and modulation the surfactant micelle structure has been shown.

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### Keywords

Carbon nanotubes, Dispersion, Electronic devices, Surfactant

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