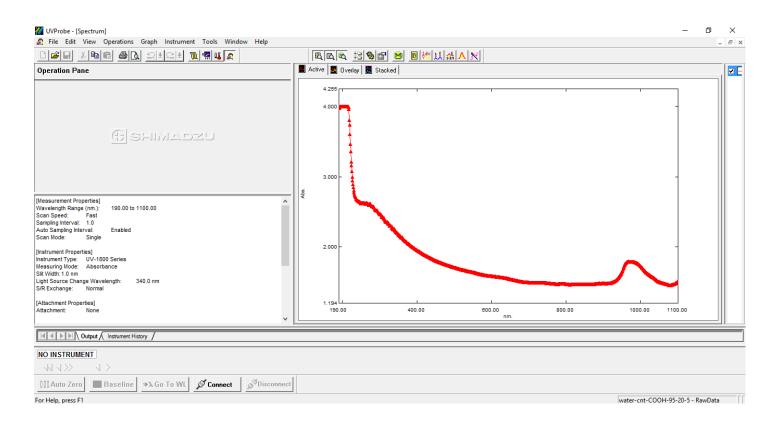


Colloidal stability of water-based multi-walled carbon nanotubes-carboxyl suspension

Additive	Multi-Walled Carbon Nanotubes-Carboxyl
Basefluid	Water
Sedimentation after 30 days of preparation	<5%



UV-Vis spectrum of water-based multi-walled carbon nanotubes-carboxyl suspension



Characterization of additives (Multi-Walled Carbon Nanotubes-Carboxyl)

Purity of CNTs: +95%

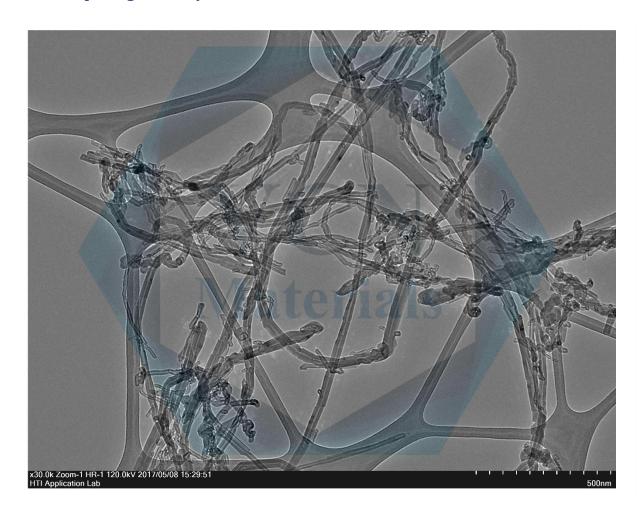
Diameter: 20-30 nm

Regular Length: 5-10 µm

SSA: more than 200 m²/g

Density: 2.1 g/cm³

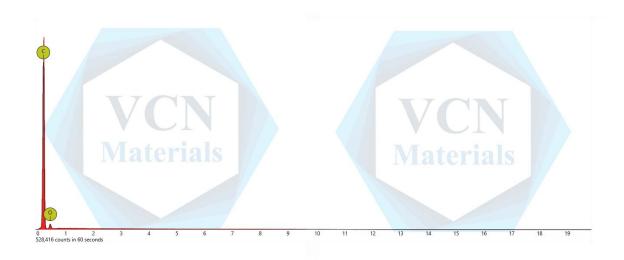
i. Morphological analysis





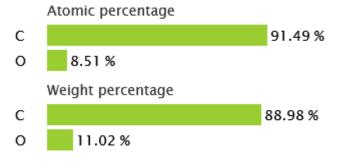
High resolution transmission electron microscopy image of Multi-Walled Carbon Nanotubes-Carboxyl

ii. Elemental Analysis

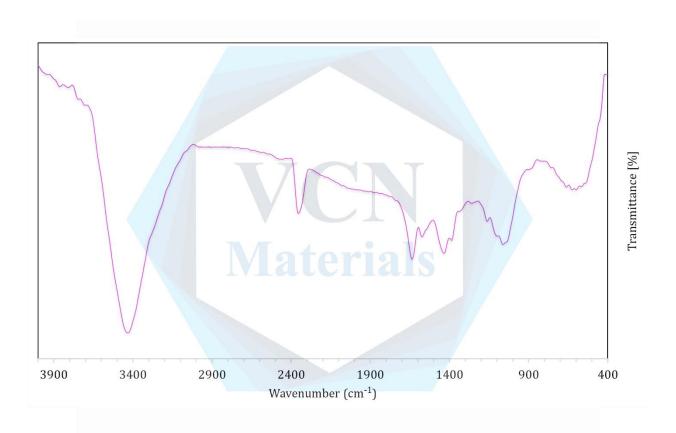


EDX image of Multi-Walled Carbon Nanotubes-Carboxyl

Element Number	Element Symbol	Element Name	Atomic Conc.	Weight Conc.
6	С	Carbon	91.49	88.98
8	0	Oxygen	8.51	11.02



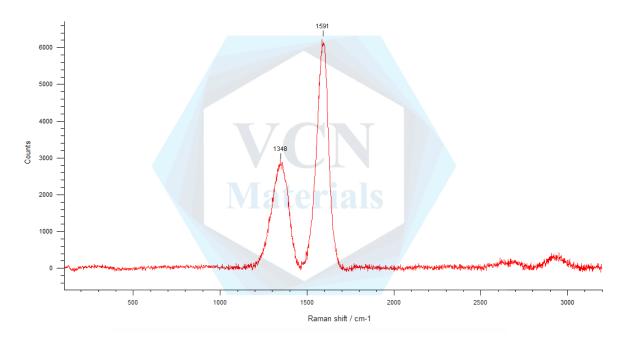
iii. Functional Analysis



FTIR spectra of Multi-Walled Carbon Nanotubes-Carboxyl



iv. Structural Analysis



Raman spectra of Multi-Walled Carbon Nanotubes-Carboxyl