

# Supplementary Materials

*Article*

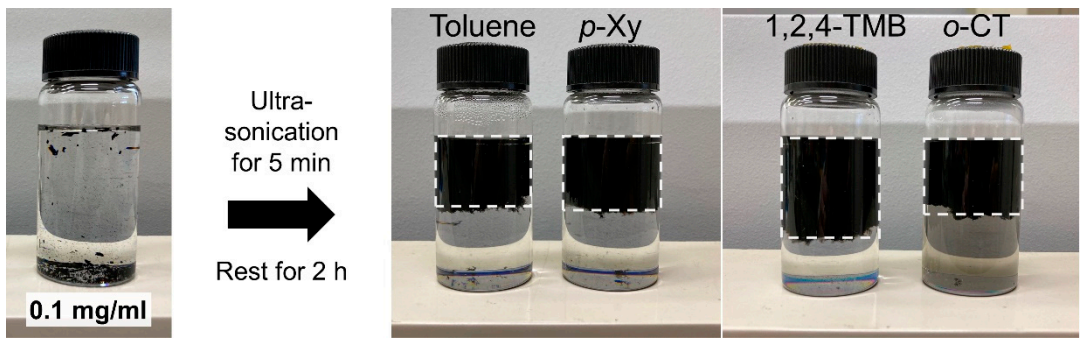
## Chromatographic Assessment of Organic Compounds Using Carbon Nanotubes: The Relationship between Affinity and Dispersibility

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**Figure S1** Appearance of SWCNT dispersions for 4 kinds of solvent dispersed via ultrasonication.

SWCNT dispersions via ultrasonication shown in Figure S1 were obtained by following procedure:

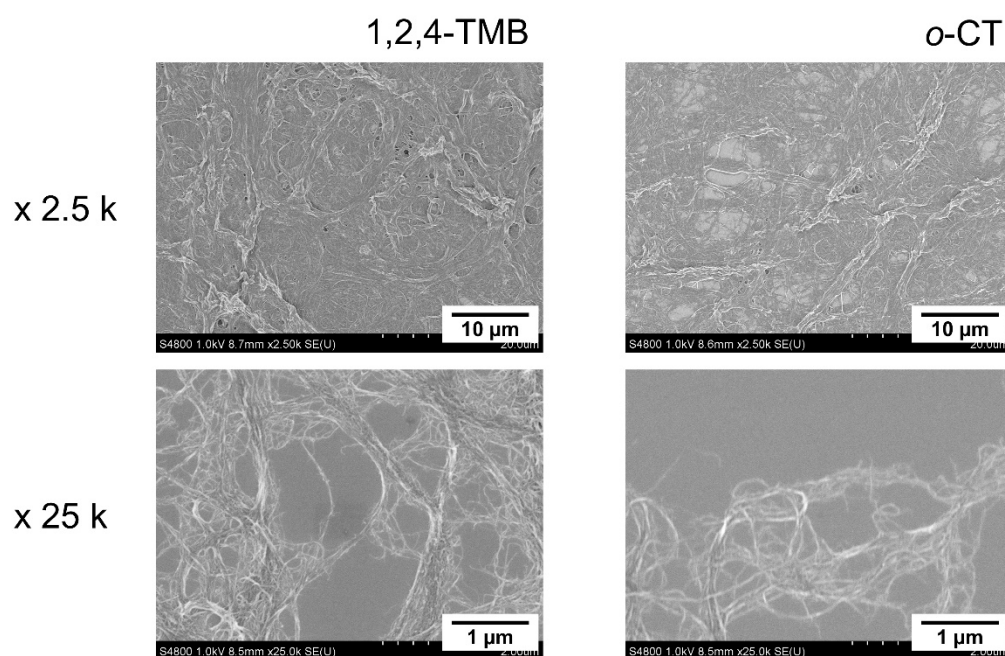
SWCNTs of 4 mg were dried under vacuum for 3 h at 180 °C, and then dispersing solvent of 40 mL was added to them and dispersed by an ultrasonic homogenizer LUH300 (Yamato) at 60 % power for 5 min.

The degree of dispersion was determined by dividing the height of the SWCNT agglomerations by the height of dispersing solvent after 2 h from the dispersion process.

**Table S1** The dispersibility of SWCNTs in 4 kinds of solvents dispersed via ultrasonication.

	Toluene	<i>p</i> -Xylene ( <i>p</i> -Xy)	1,2,4-trimethylbenzene (1,2,4-TMB)	<i>o</i> -chlorotoluene ( <i>o</i> -CT)
CNT height percentage after ultrasonication <sup>1</sup> / %	41	47	67	49

<sup>1</sup> CNT concentration: 0.1 mg/mL



**Figure S2** Scanning electron microscope (SEM) images of SWCNTs on Si substrates deposited by spincoating the ultrasonicated CNT dispersions of 1,2,4-trimethylbenzene (1,2,4-TMB) and *o*-chlorotoluene (*o*-CT).

We performed scanning electron microscopy (SEM) observation on the SWCNTs dispersed in 1,2,4-trimethylbenzene (1,2,4-TMB) and *o*-chlorotoluene (*o*-CT) using a field emission scanning electron microscope S-4800 (Hitachi High-Tech). The SWCNTs were deposited on Si substrates by a spincoating process of SWCNT dispersions at 3,000 rpm for 30 s using a spincoater 1H-D7 (MIKASA). Obtained SEM images show no clear difference in morphologies such as bundle sizes, indicating the difficulty of the interpretation on the difference in dispersibility from nanoscale observations.