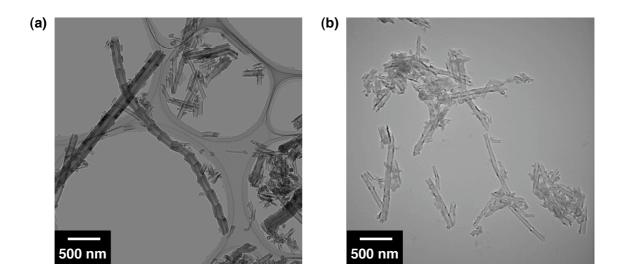
Supporting Information

## Electron-Transfer Reduction of Cup-Stacked Carbon Nanotubes Affording Cup-Shaped Carbons with Controlled Diameter and Size

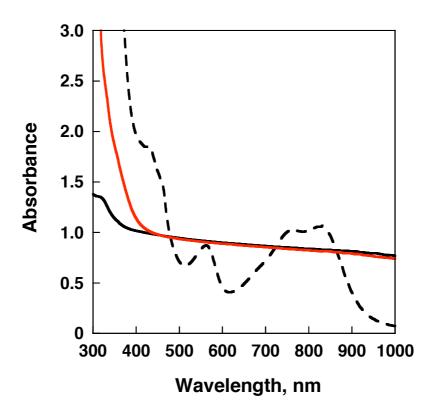
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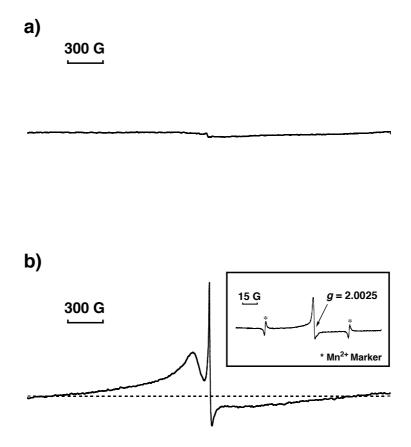
E-mail: fukuzumi@chem.eng.osaka-u.ac.jp



**Figure S1.** TEM images of (a) pristine CSCNTs and (b) purified CSCNTs after centrifugation for 15 minutes at 1,880g in CHCl<sub>3</sub>.



**Figure S2.** UV-Vis-near-IR absorption spectra of pristine CSCNTs (solid black line), CSCNTs after reduction with sodium naphthalenide (solid red line), and sodium naphthalenide  $(1.0 \times 10^{-5} \text{ M}, \text{ dashed black line})$  in THF.



**Figure S3.** Solid-state ESR spectra of (a) pristine CSCNTs (0.023 g) and (b) reduced CSCNTs (0.015 g) at 298 K. Inset: the magnification of the sharp signal at g = 2.0025.

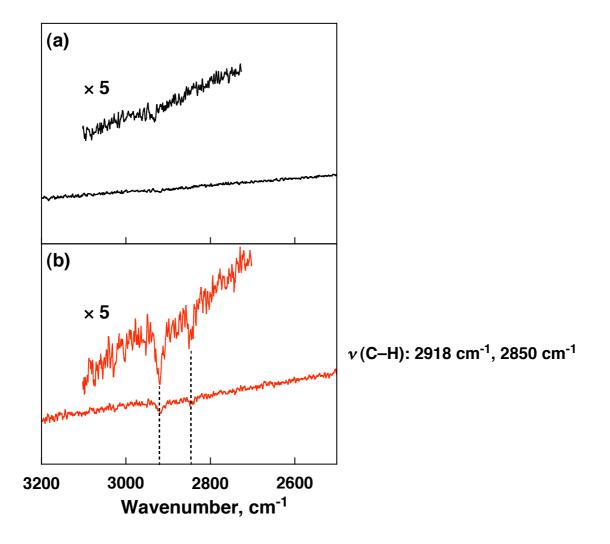


Figure S4. IR spectra of (a) pristine CSCNTs and (b) dodecylated cup-shaped carbons.

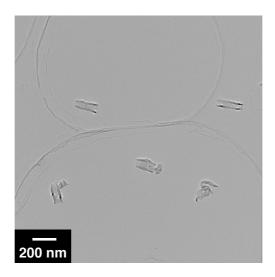
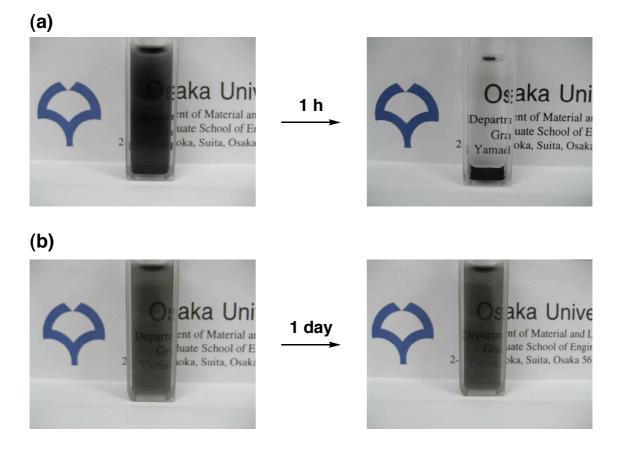


Figure S5. TEM images of dodecylated cup-shaped carbonss.



**Figure S6.** Photographs of (a) pristine CSCNTs and (b) dodecylated cup-shaped carbons suspended in THF.