

Supplementary Information file for

In vitro study of the cytotoxicity of TTF-TCNQ nanoparticles on mammalian cells

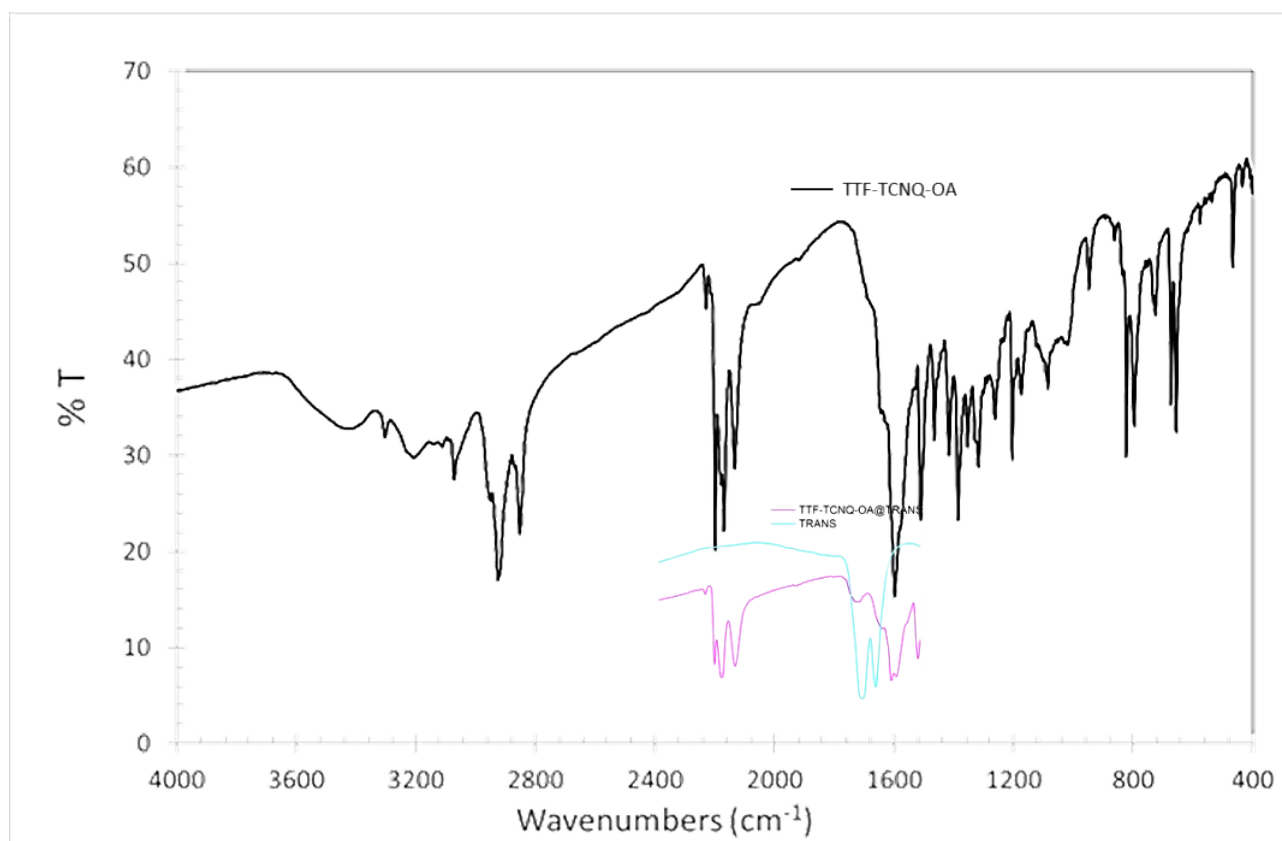
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Content:

S1. IR spectrum of TTF-TCNQ-OA

S2. Raman Spectrum of TTF-TCNQ-OA

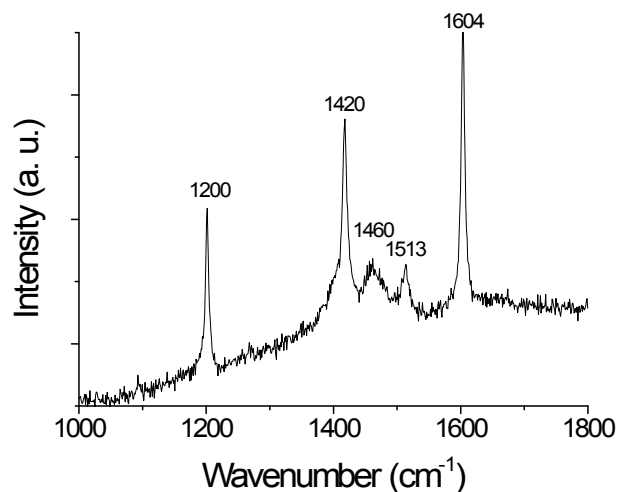
S3. UV-vis. Spectrum of TTF-TCNQ-OA



S1. IR spectrum of TTF-TCNQ-OA (in KBr matrix)

Assignment (cm^{-1}): 3072 (CH sp^2 stretching); 2926 and 2853 (CH sp^3 stretching); 2199, 2169 and 2133 (CN stretching); 1598 and 1512 (C=C stretching); 1086 (S-C-H bending); 797 (CS stretching).

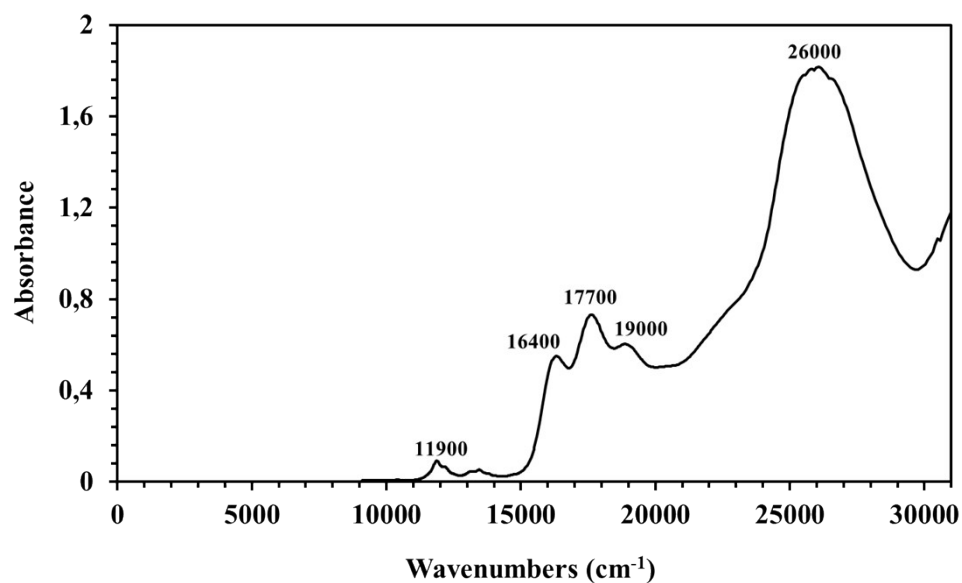
Insert (in text Figure 3): CO band area of free *trans*-decenoic acid (1700) and in TTF-TCNQ-OA@TRANS (1710).



ν (cm ⁻¹)	Assignment	Symmetry
1200 (1202)*	C–C–H bend and C=C ring stretch in TCNQ	a _g (ν ₅)
1420 (1423)	C=C stretch in TCNQ	a _g (ν ₄)
1460 (1456)	C=C stretch center and C=C ring stretch in TTF	a _g (ν ₃)
1513 (1520)	C=C stretch center and C=C ring stretch in TTF	–
1604 (1606)	C=C ring stretch in TCNQ	a _g (ν ₂)

S2. Raman spectroscopy of TTF-TCNQ-OA.

Raman modes, assignments, and symmetry. *In parentheses, ν values for TTF-TCNQ single crystal.



S3. UV-vis. spectrum for TTF-TCNQ-OA in acetonitrile

Assignment (cm^{-1}): 11900 (charge transfer band between TTF and TCNQ); 16400, 17700, 19000 and 26000 (intramolecular transitions for $\text{TCNQ}^{\delta-}$)