



# Facile Synthesis of Water-Soluble Fullerene (C<sub>60</sub>) Nanoparticles via Mussel-Inspired Chemistry as Efficient Antioxidants

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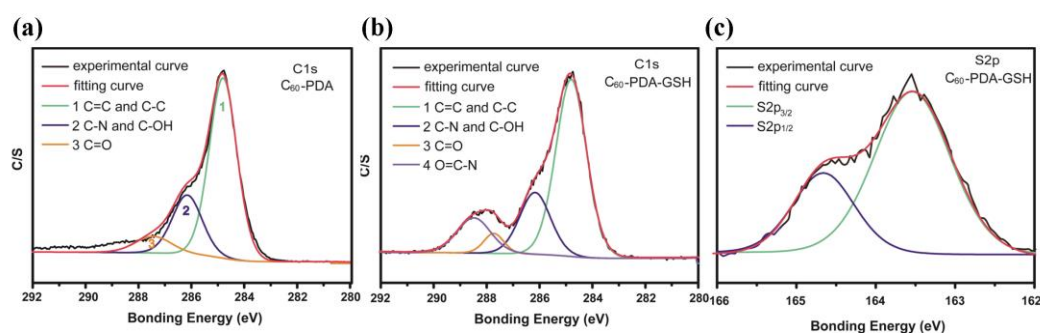
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## Supporting Information

### The characterization section:



**Figure S1.** XPS C1s spectra and fitted curves of (a) C<sub>60</sub>-PDA and (b) C<sub>60</sub>-PDA-PEI nanoparticles; (c) S2p spectrum and fitted curve of C<sub>60</sub>-PDA-PEI nanoparticles

Dynamic Light Scattering (DLS) and zeta-potential measurements were performed on a Zetasizer Nano ZSP instrument. The samples were filtered through a membrane with 220 nm pore size before DLS measurement. The zeta potentials were measured three times per sample in Milli-Q water at pH 7.0.



	Mean (mV)	Area (%)	St Dev (mV)
Zeta Potential (mV): -24.5	Peak 1: -20.9	99.8	7.00
Zeta Deviation (mV): 24.1	Peak 2: 110	0.2	0.00
Conductivity (mS/cm): 0.0234	Peak 3: 0.00	0.0	0.00

Result quality : Good

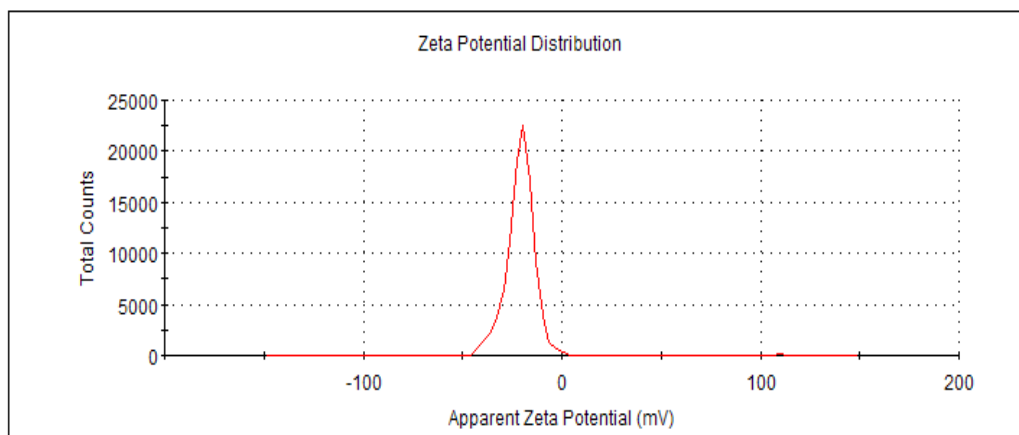


Figure S2. Zeta potential of C<sub>60</sub>-PDA-GSH nanoparticles measured by DLS