

Supporting Information

UCN-SiO₂-GO: a core shell and conjugate system for controlling delivery of doxorubicin by 980nm NIR pulse

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Table 1 EDX List of elements that present in the UCN@SiO₂ nanoparticles sample, their atomic percentage and weight percentage

Element	Weight %	Atomic
O K	48.71	66.32
F K	6.16	7.07
Na K	5.54	5.25
Si K	25.05	19.42
Y L	0.50	0.12
Er L	10.86	1.41
Yb L	3.18	0.40

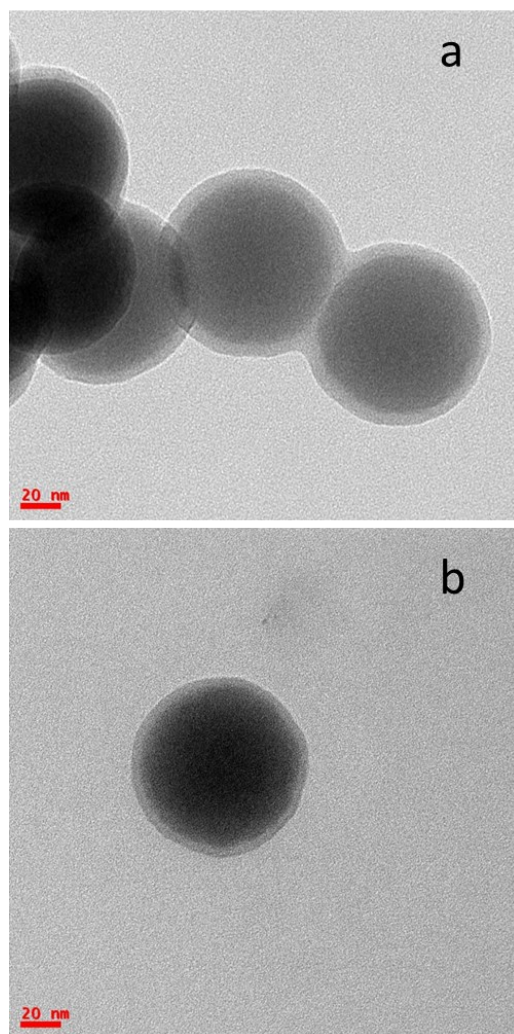


Figure S1 TEM micrographs of (a) core shell UCN@SiO₂ nanoparticles at higher magnification (b) individual UCN@SiO₂ nanoparticle.

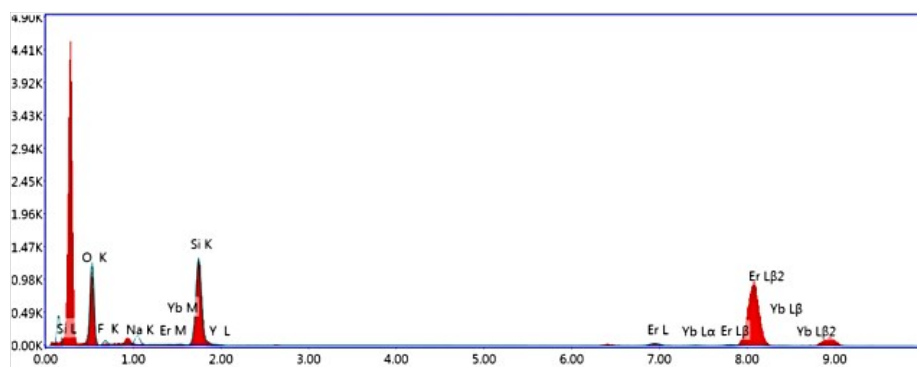


Figure 2. TEM EDX spectrum of UCN@SiO₂ nanoparticles

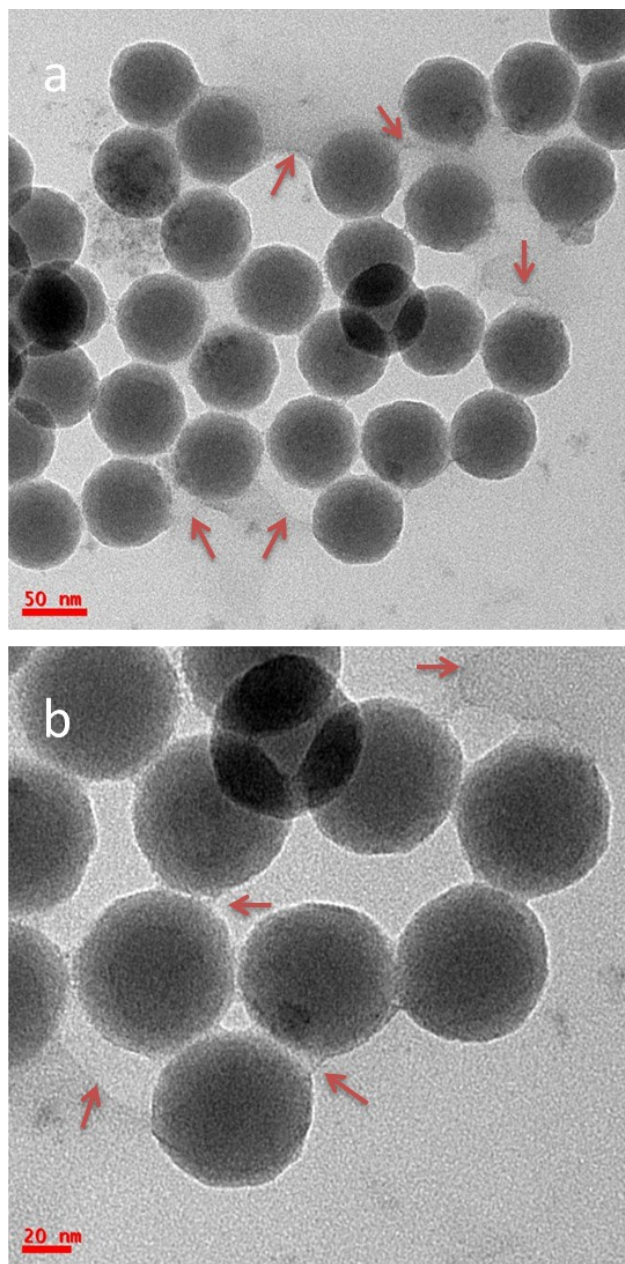


Figure S3. TEM micrographs of UCN@SiO₂-GO nanocomposite at another region (a) at low magnification (b) at high magnification

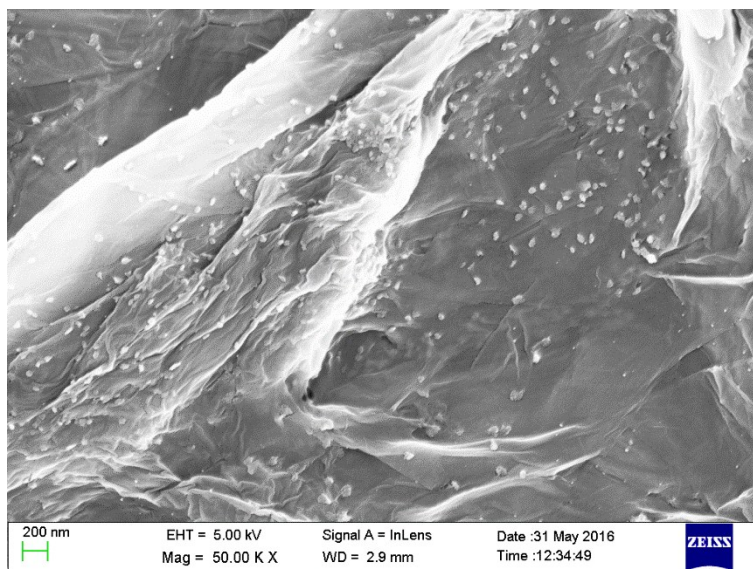


Figure S3 FESEM micrograph of UCN@SiO₂-GO nanocomposite at another region of the sample.