

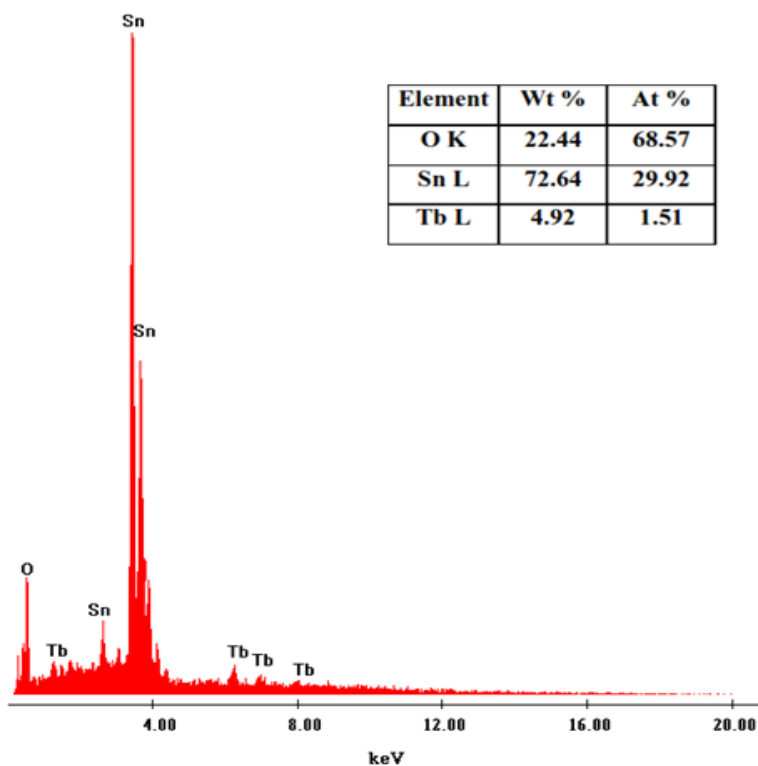
Terbium doped SnO₂ nanoparticles as white emitter and SnO₂:5Tb/Fe₃O₄ magnetic luminescent nanohybrid for hyperthermia application and biocompatibility with HeLa cancer cells

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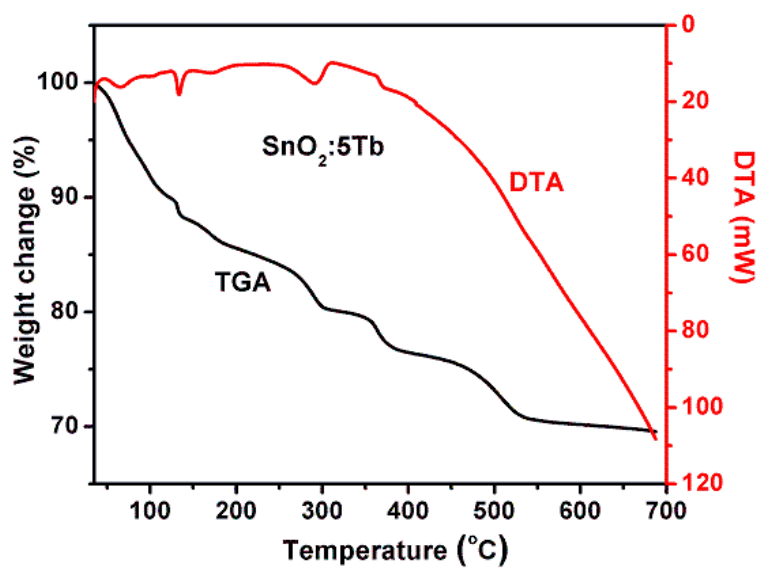
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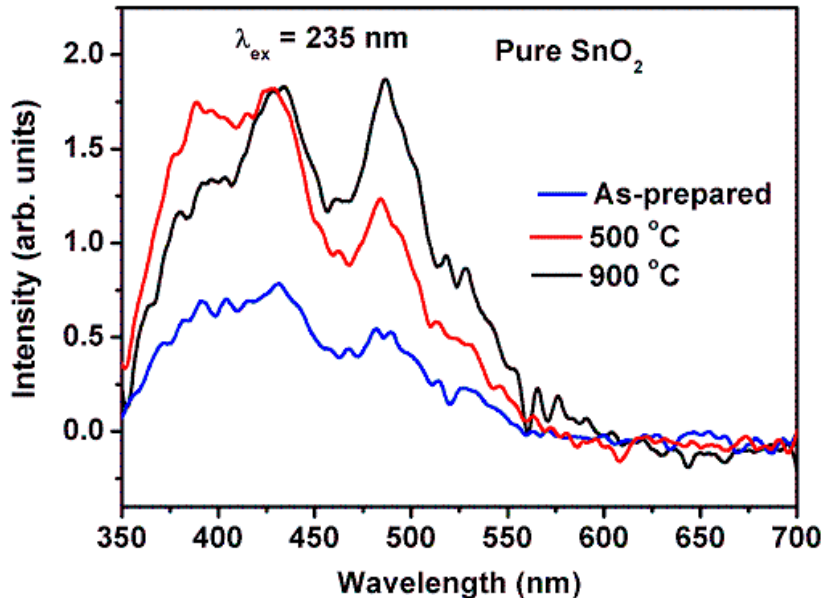
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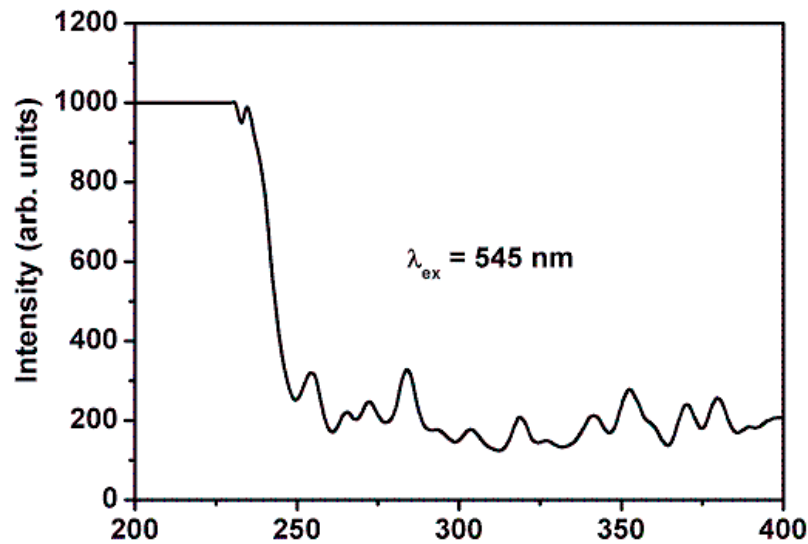
SI 1. EDAX spectra of SnO₂:5Tb nanoparticles.



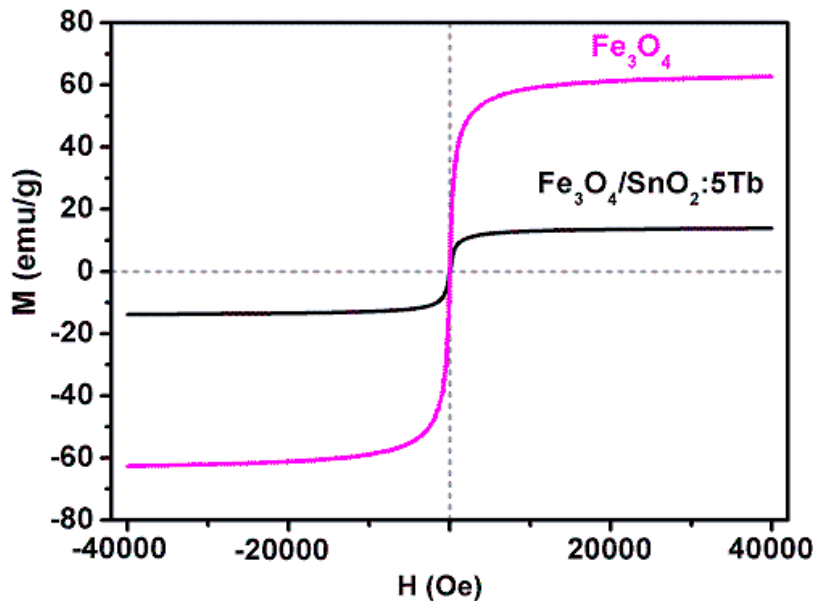
SI 2. TGA-DTA for SnO₂:5Tb nanoparticles



SI 3. Emission spectra of pure SnO₂ nanoparticles at different annealing temperatures as-prepared, 500 and 900 °C. The emission peaks are obtained by exciting at 235 nm.

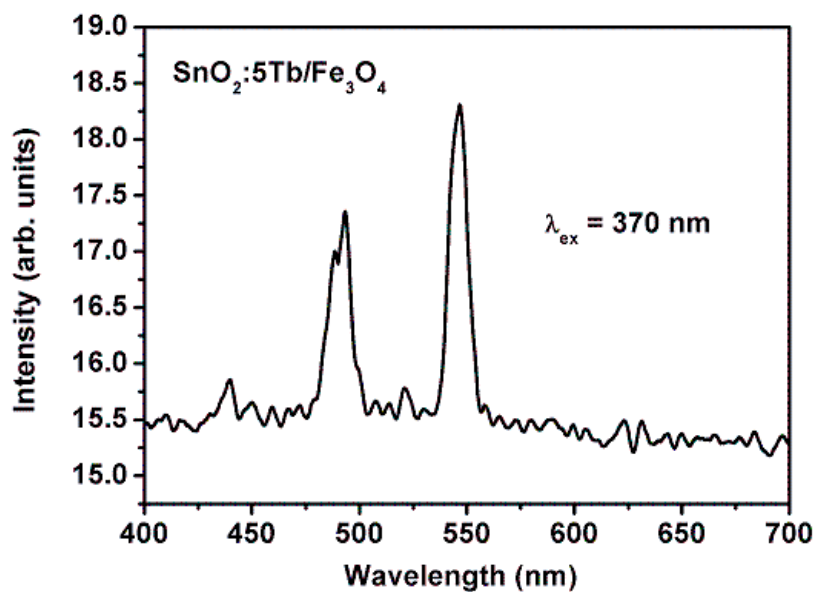


SI 4.
monitor

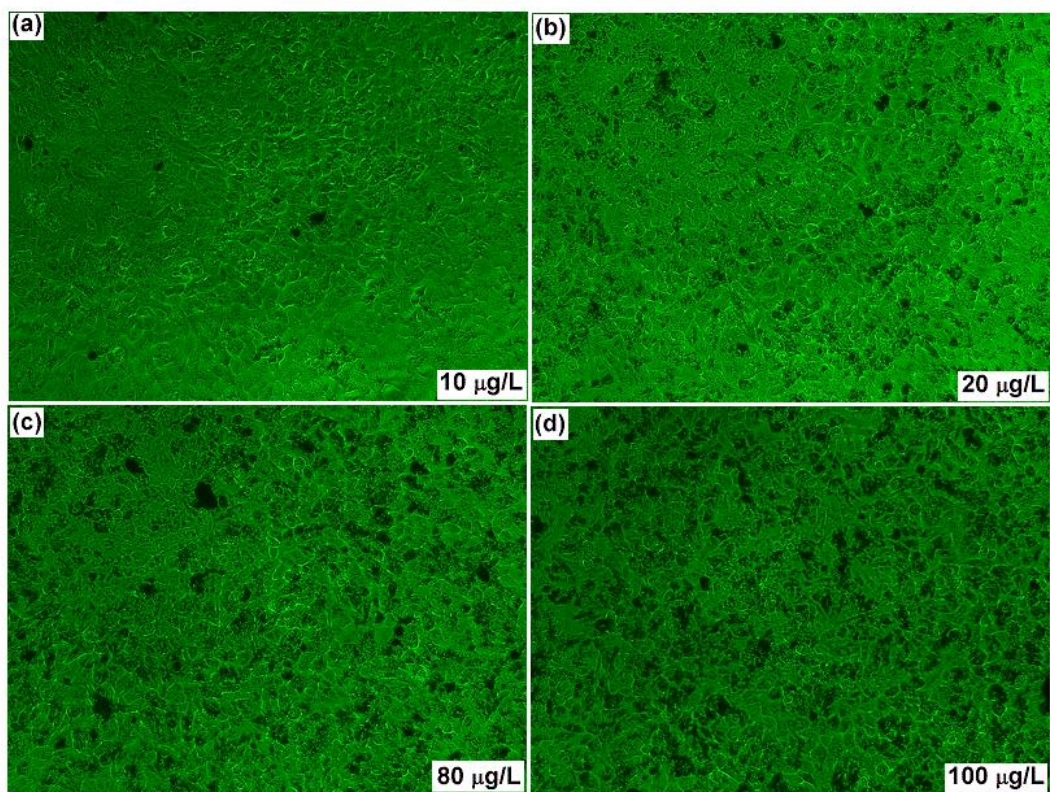


Excitation spectrum at 545 nm emission wavelength for SnO₂:5Tb nanoparticles annealing at 900 °C.

SI 5. Magnetisation (H) *verses* applied magnetic field (H) for pure Fe₃O₄ and SnO₂:5Tb/Fe₃O₄ nanohybrid.



SI 6. Emission spectra of SnO₂:5Tb/Fe₃O₄ nanohybrid excited at 370 nm.



SI 7. Images of cell treated with $\text{SnO}_2:5\text{Tb}/\text{Fe}_3\text{O}_4$ at different concentration of nano-hybrid ($\text{SnO}_2:5\text{Tb}/\text{Fe}_3\text{O}_4$) (a) 10 $\mu\text{g}/\text{L}$ (b) 20 $\mu\text{g}/\text{L}$ (c) 80 $\mu\text{g}/\text{L}$ and 100 $\mu\text{g}/\text{L}$, respectively.