Supporting Information

Copper Sulfide Nanostructures: Ease Synthesis, Photocatalytic and Doxorubicin Anticancer Drug Delivery Applications

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**Figure S1:** FE-SEM images of samples (a) R₄-PEG, (b) R₄-PEG/DOX.
Figure S2: EDS analysis of samples (a) R₄-PEG, (b) R₄-PEG/DOX

Figure S3: The zeta potential analysis of (a) R₄, (b) R₄-PEG, (c) R₄-PEG/DOX
Figure S4: UV-Vis absorption spectra of (a) $R_3$ sample and (b) $R_6$ sample
Figure S5: The band gap calculation of sample by Kubelka-Munk model (a) $R_4$, (b) $R_6$. 

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[F(R)]^{1/2} = \frac{A}{h\nu} 
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