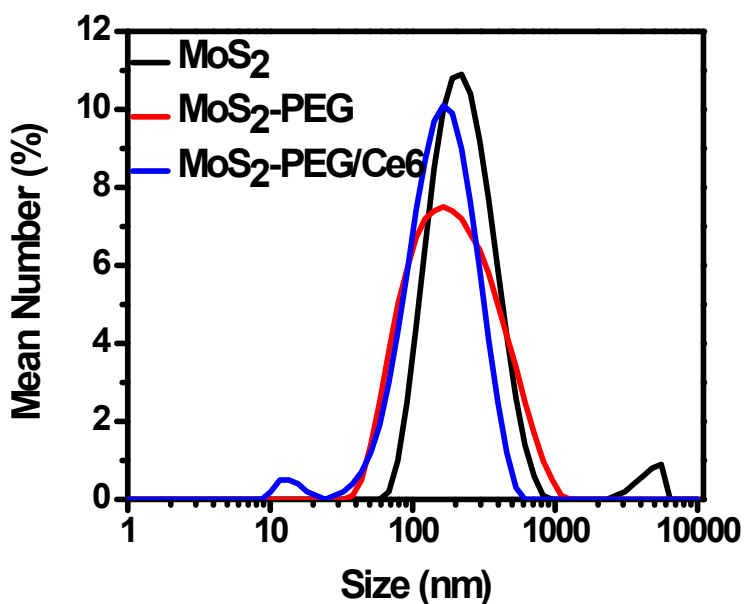
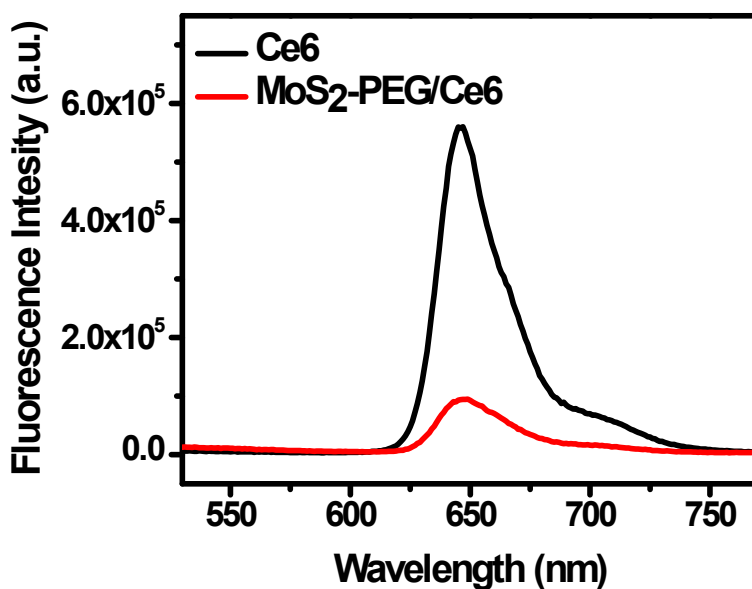


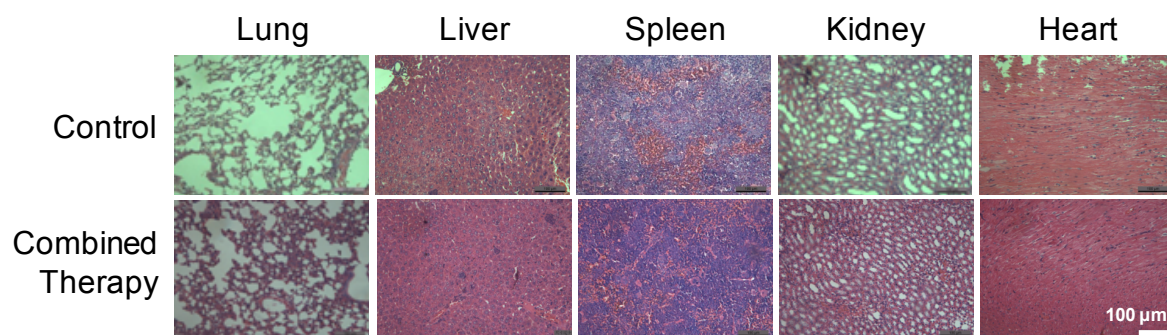
Supporting Information



Supporting Figure S1. DLS measured hydrodynamic sizes of MoS₂ nanosheets before & after after PEGylation or Ce6 loading.



Supporting Figure S2. Fluorescent spectra of Ce6 and MoS₂-PEG/Ce6 aqueous solutions at the same Ce6 concentration ($\lambda_{ex} = 404$ nm), demonstrating fluorescence quenching of Ce6 after loading onto MoS₂-PEG.



Supporting Figure S3. H&E stained images of major organs of healthy mice and mice 30 days after PTT & PDT combined therapy with i.v. injection of MoS₂-PEG/Ce6. No noticeable abnormality was observed.