

Supporting Information

Coupling metal organic frameworks with molybdenum disulfide nanoflakes for targeted cancer theranostics

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Author Contributions

[#]S.G. Yang and D.J. Li contributed equally to this work.

Supplementary Figures:

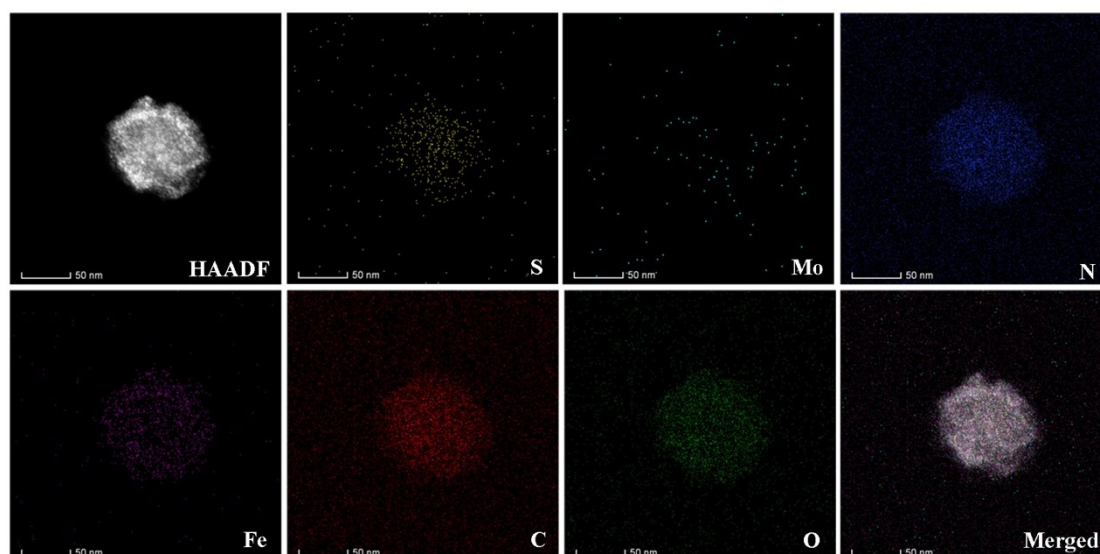


Figure S1. Element mapping and of prepared MoS_2 -PMA.

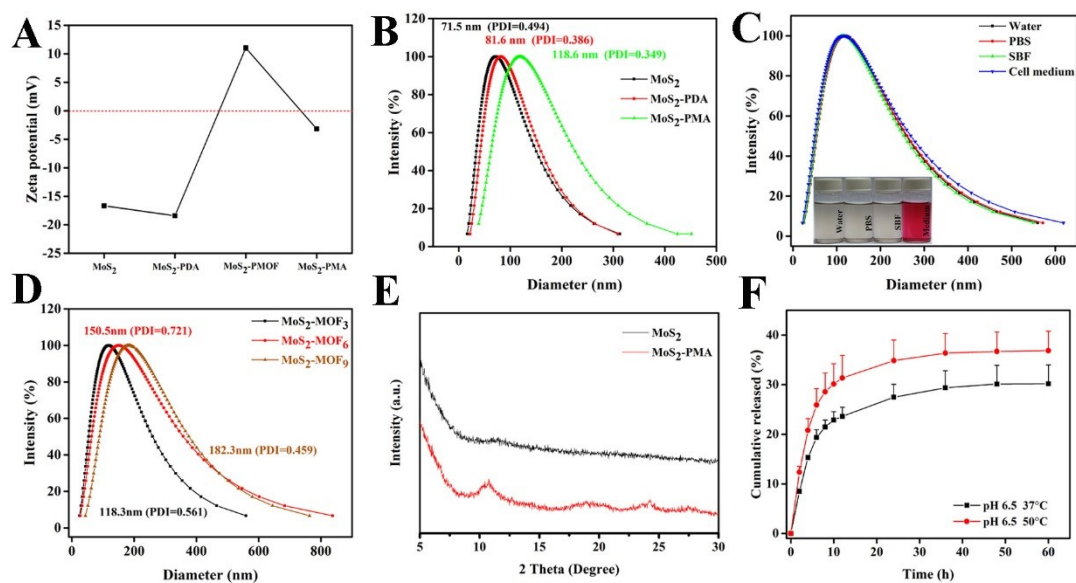


Figure S2. (A) Zeta potential results of different nanostructures. (B) DLS results of MoS_2 , MoS_2 -PDA, MoS_2 -PMA and (C) MoS_2 -PMA dispersed in different media (D) MoS_2 -PMOF with different MOF layer. (E) XRD patterns of MoS_2 and MoS_2 -PMA. (F) Drug release curves under different conditions.

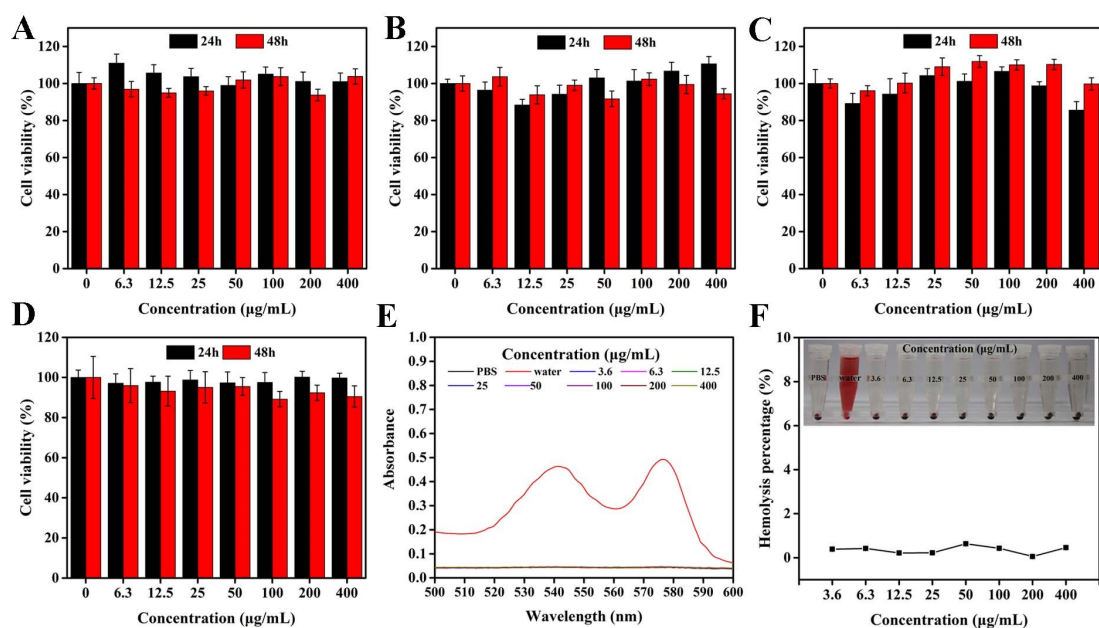


Figure S3. (A~D) Cell viability of, 4T1, MCF-7, HUVEC and RAW264.7 incubated with different concentrations of MoS₂-PMA for 24 h and 48 h; After RBCs were incubated with MoS₂-PMA with different concentrations, (E) UV-vis absorption of the supernatant and (F) Hemolytic percentage, and the embedded digital pictures were the hemolysis results after centrifugation.

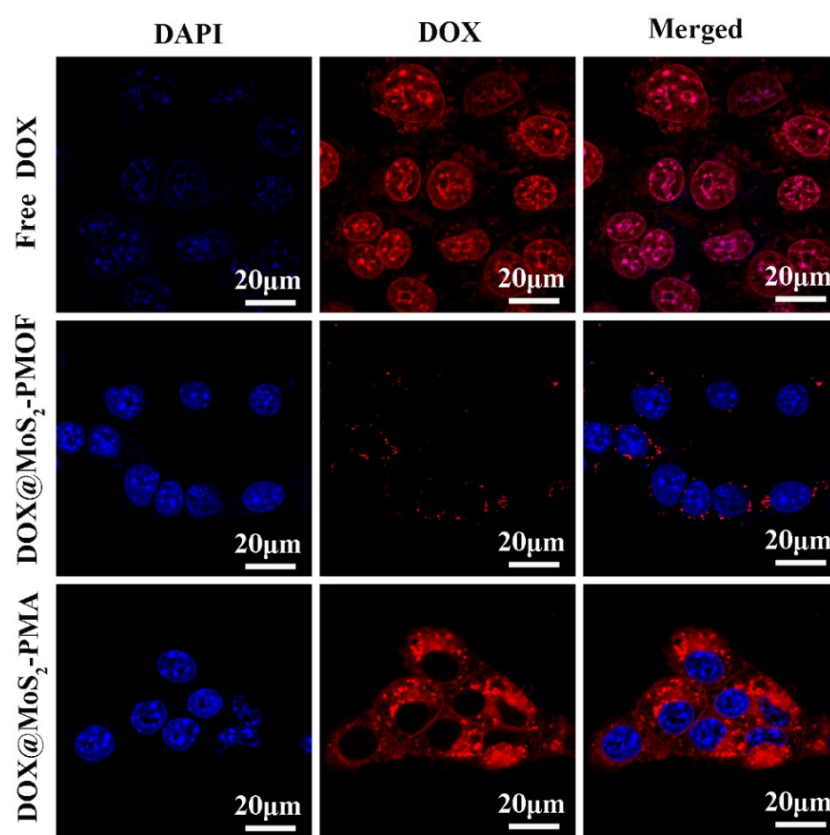


Figure S4. The CLSM images of 4T1 cells treated with DOX, DOX@MoS₂-PMOF, and DOX@MoS₂-PMA with a DOX concentration of 5 μg/mL for 4 h.

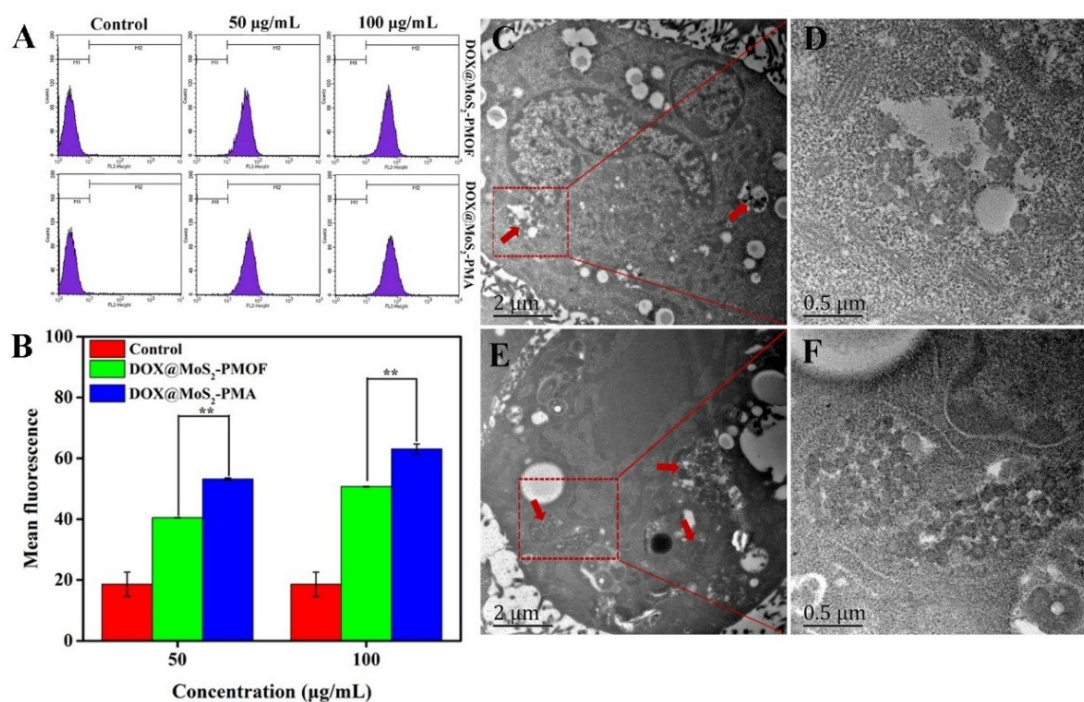


Figure S5. (A) Results detected by flow cytometry after cell uptake of DOX@MoS₂-PMOF and DOX@MoS₂-PMA; (B) Fluorescence intensity of cells after two kinds of nanoparticles incubated with cells. Bio-TEM images of 4T1 cells incubated with (C, D) MoS₂-PMOF and (E, F) MoS₂-PMA for 24 h.