

SUPPORTING INFORMATION

CpG loaded MoS₂ Nanosheets as Multifunctional Agents for Photothermal Enhanced Cancer Immunotherapy

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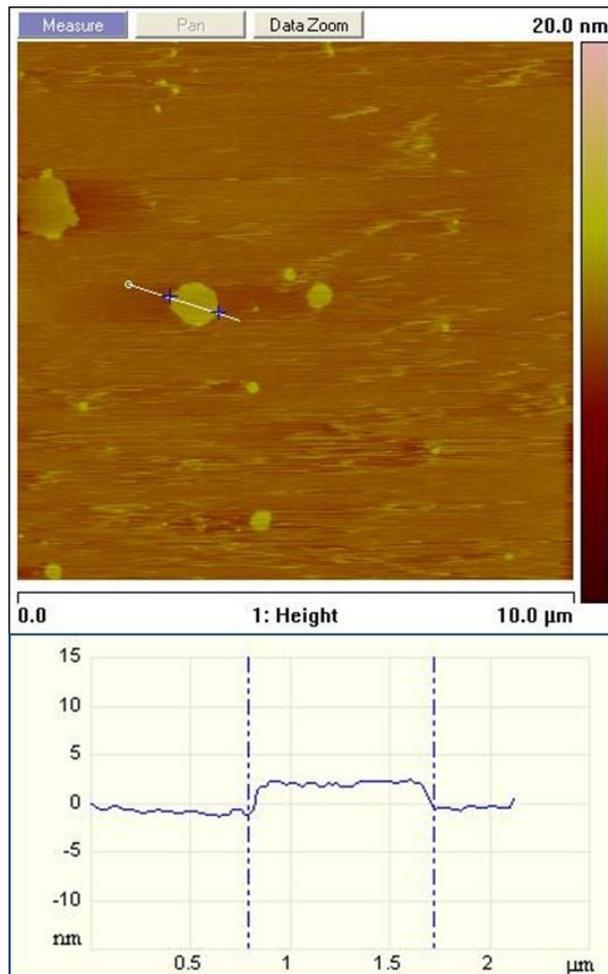


Fig.S1 AFM image of as prepared MoS₂ nanosheets.

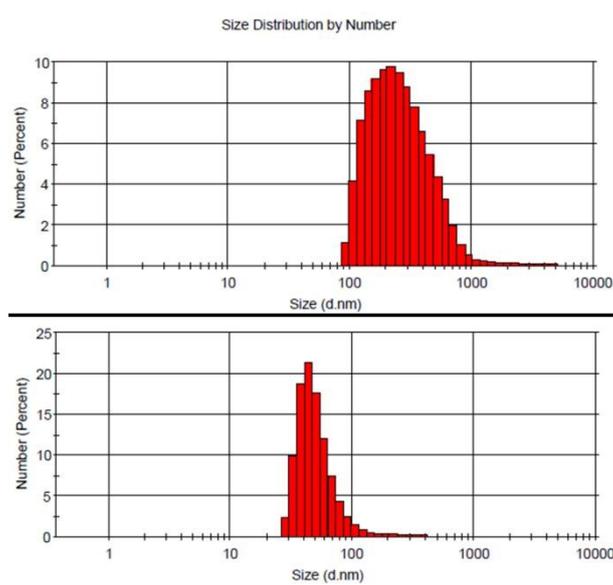


Fig.S2 DLS results of MoS₂ nanosheets before (up) and after modification (bottom).

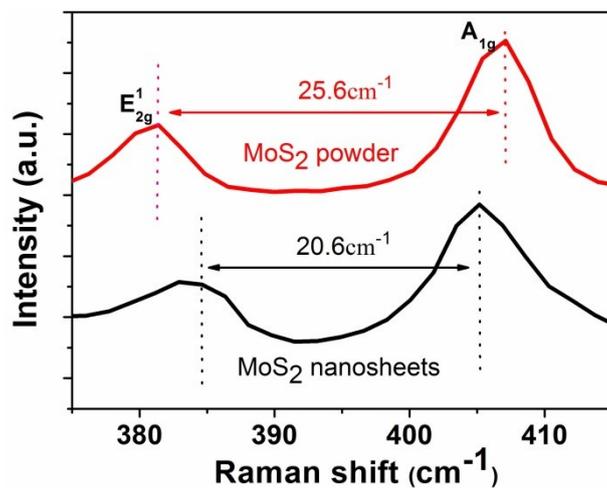


Fig.S3 Raman spectra of MoS₂ nanosheets.

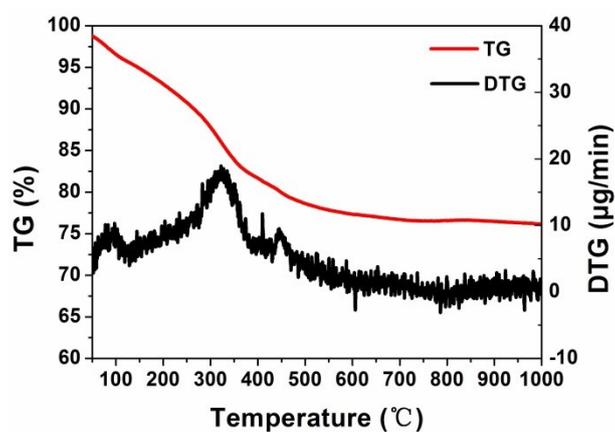


Fig.S4 TGA and DTG curves of MoS₂ nanosheets.

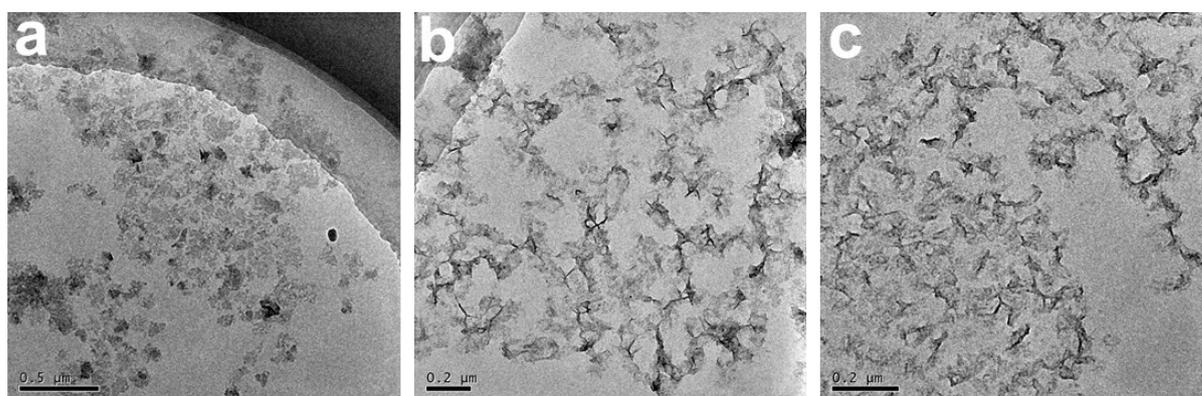


Fig.S5 (a-c) TEM images of MoS₂ nanosheets after probe sonication for 1h with power of 100 W, 300 W and 500W, respectively.

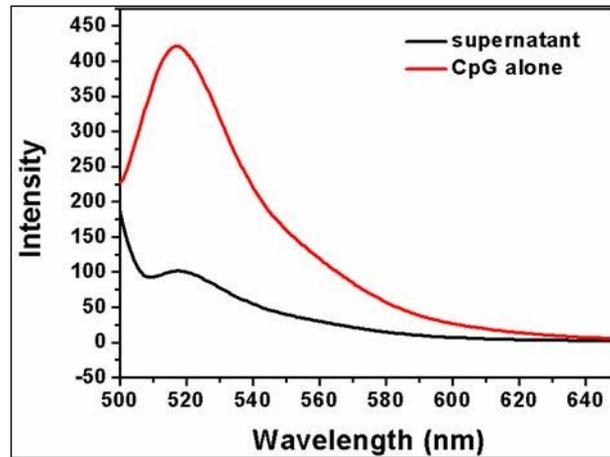


Fig.S6 Fluorescence spectra of FAM labeled CpG before and after modification on MoS₂ nanosheets. The red line represents the original fluorescence of FAM-labeled CpG and the black line represents the remaining fluorescence with corresponding centrifugal supernatant solution of FAM-labeled CpG ODNs after being adsorbed by MoS₂ nanosheets.

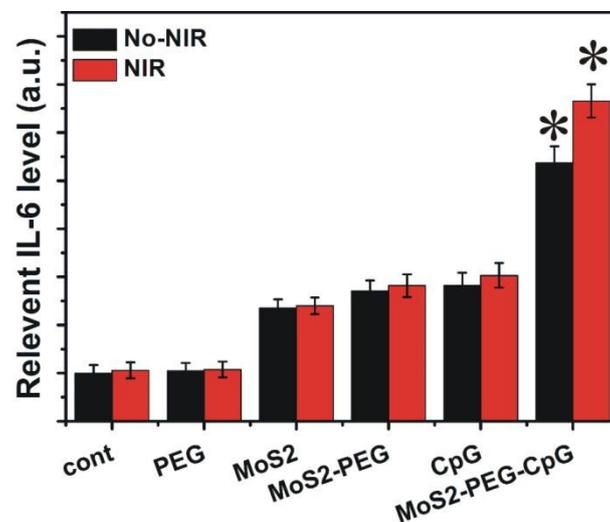


Fig.S7 Immune cytokines release from RAW264.7 cells stimulated by various treatments. Comparison of IL-6 release stimulated by PEG (2.5 μ M), MoS₂ (12.5 μ g/mL), MoS₂-PEG (12.5 μ g/mL for MoS₂ and 2.5 μ M for PEG), CpG (0.5 μ M), MoS₂-PEG-CpG (12.5 μ g/mL for MoS₂, 2.5 μ M for PEG and 0.5 μ M for CpG) with (red column) or without (black column) NIR irradiation (2 W/cm², 10 min). Error bars represent standard deviation of three independent measurements.

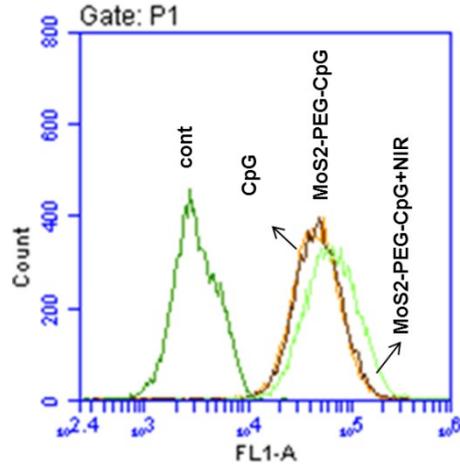


Fig.S8 Quantification of CpG uptake under various conditions by flow cytometry.

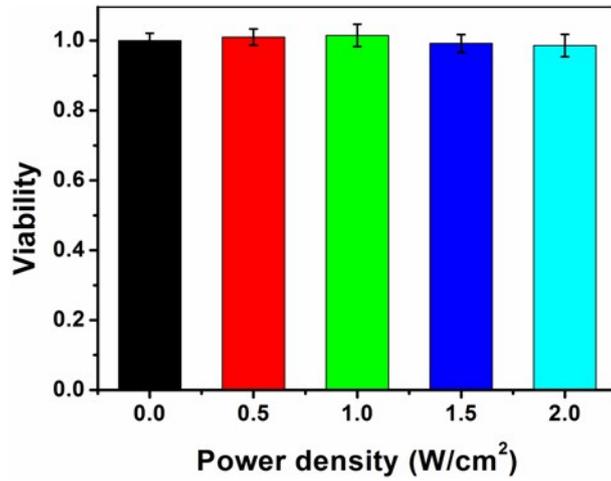


Fig.S9 RAW264.7 cell viability under various laser powers.

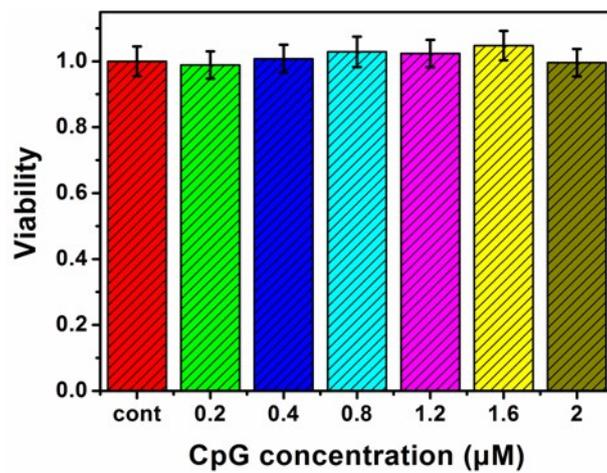


Fig.S10 RAW264.7 cell viability of CpG at various concentrations.