

1 **Novel Self-Assembled Metal-Phenolic Nanoplatfoms for Triple-**
2 **Negative Breast Cancer Treatment: Photothermal-**
3 **Chemotherapy/Ferroptosis Synergy Inducing Immunogenic Cell**
4 **Death**

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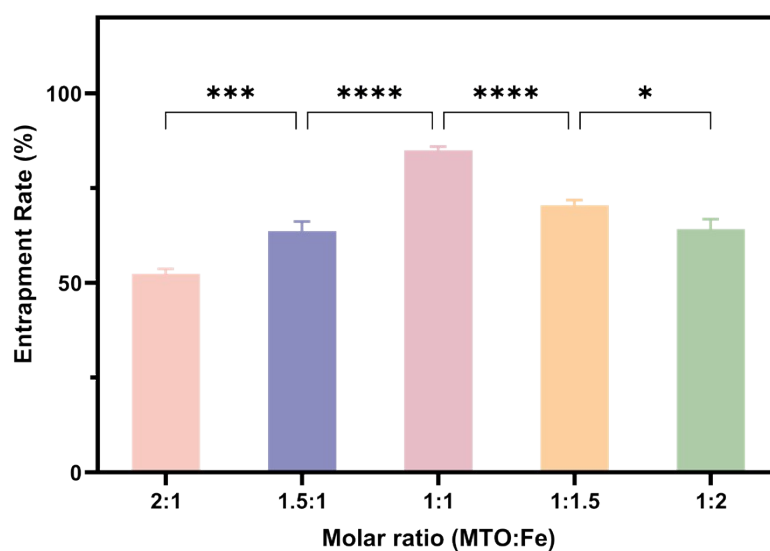
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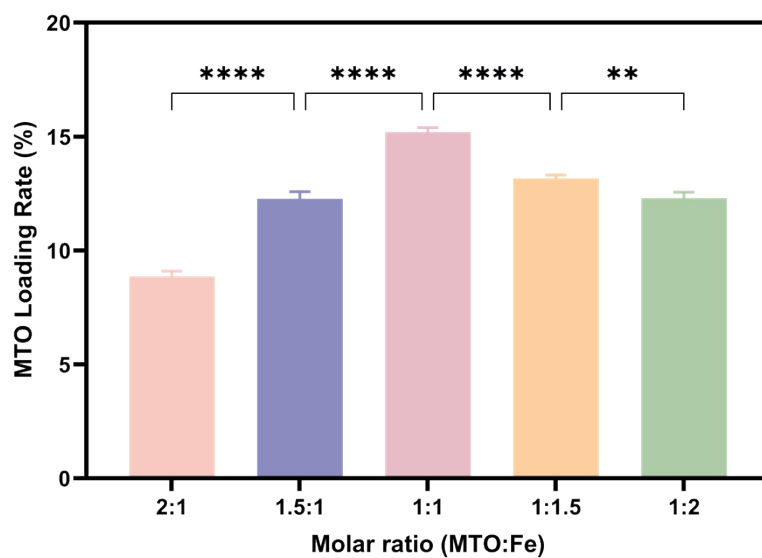
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29 **Figure S1.** Entrapment Rate of MFTA in different molar ratio.

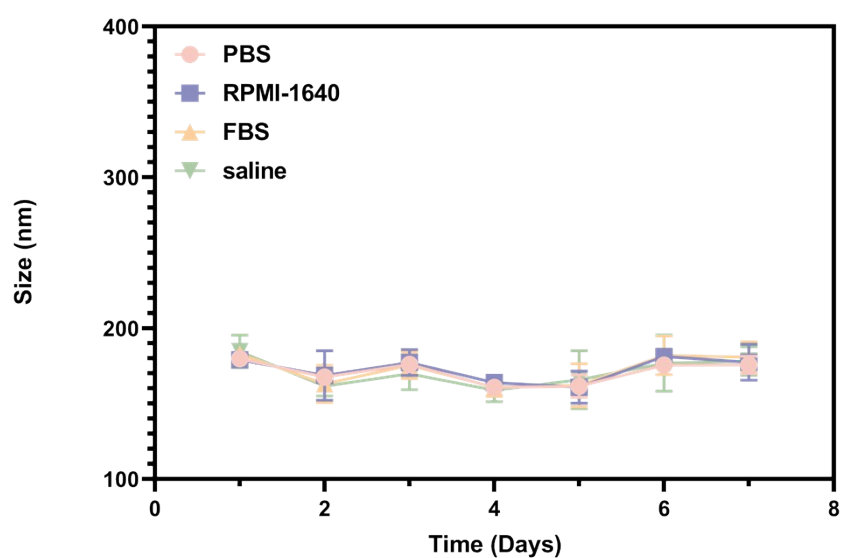
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32 **Figure S2.** MTO loading rate of MFTA in different molar ratio.

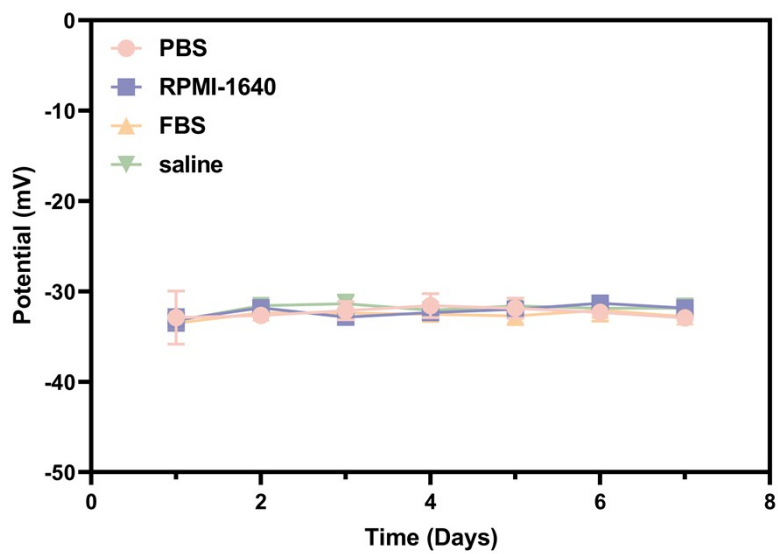
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35 **Figure S3.** Diameters in 7 days.

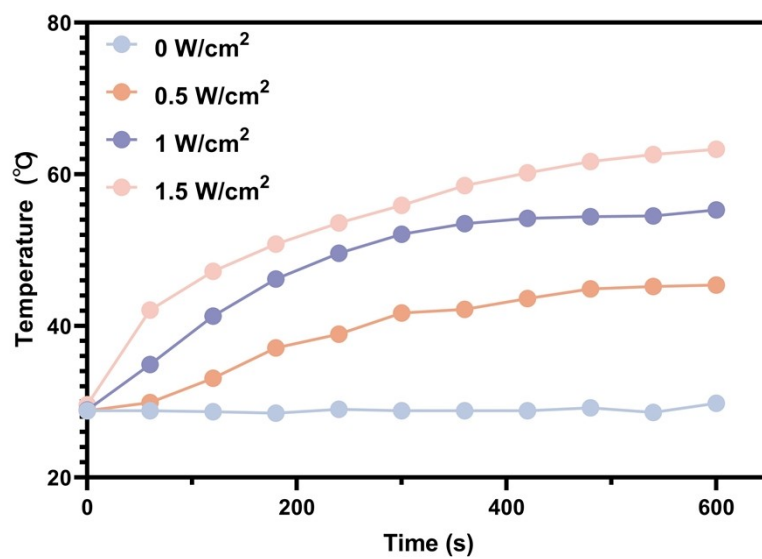
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38 **Figure S4.** Zeta potential in 7 days.

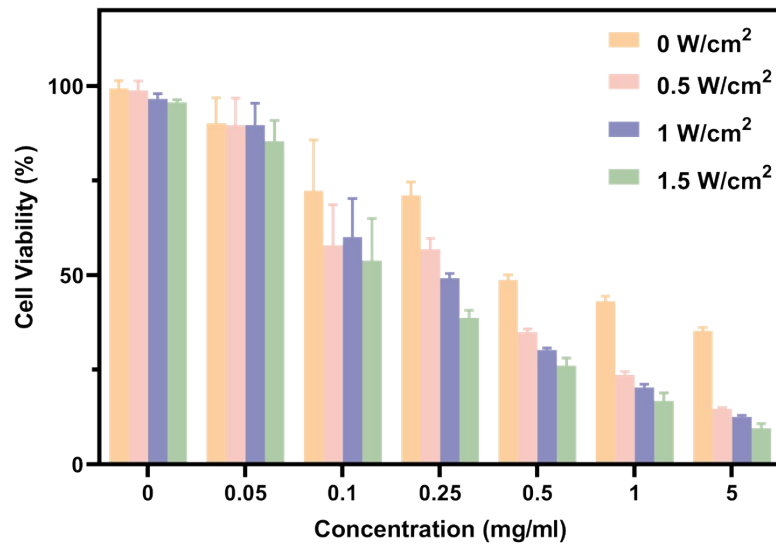
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41 **Figure S5.** The temperature elevation curve of MFTA irradiated by 808 nm NIR with
 42 different power densities.

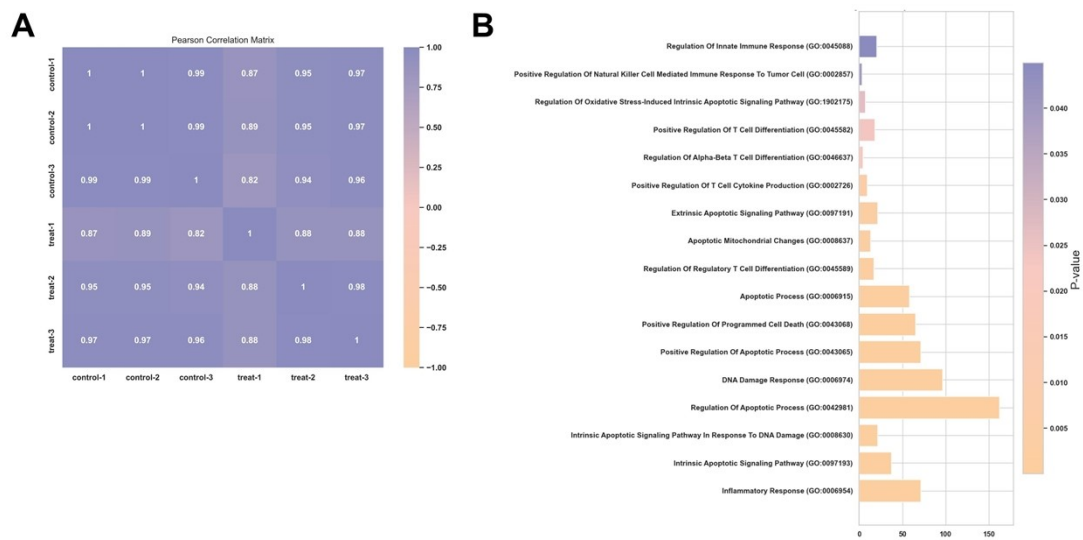
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45 **Figure S6.** CCK-8 test of 4T1 cells treated with MFTA and 808 nm NIR with
 46 different power densities.

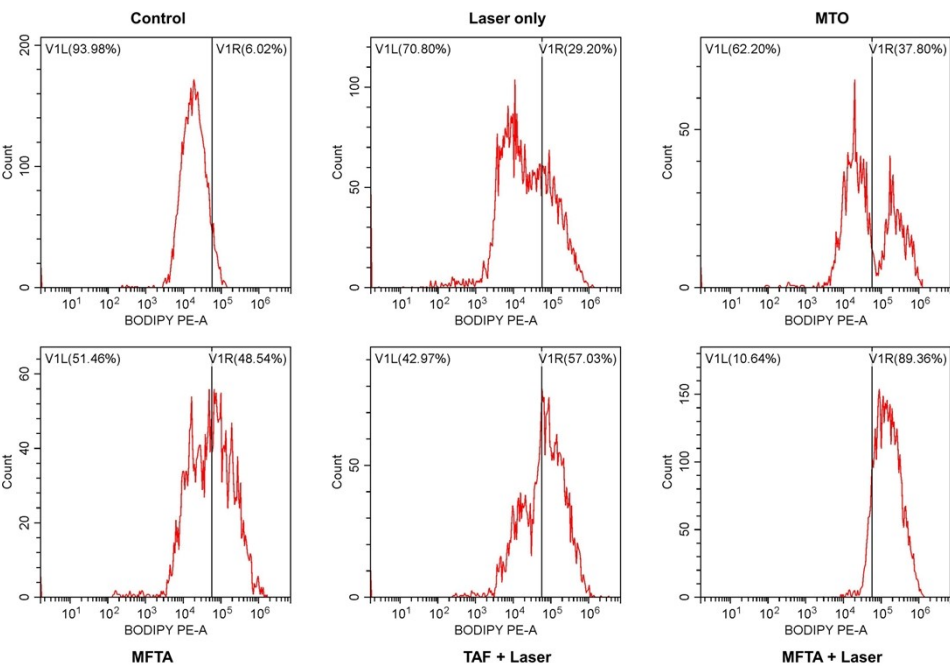
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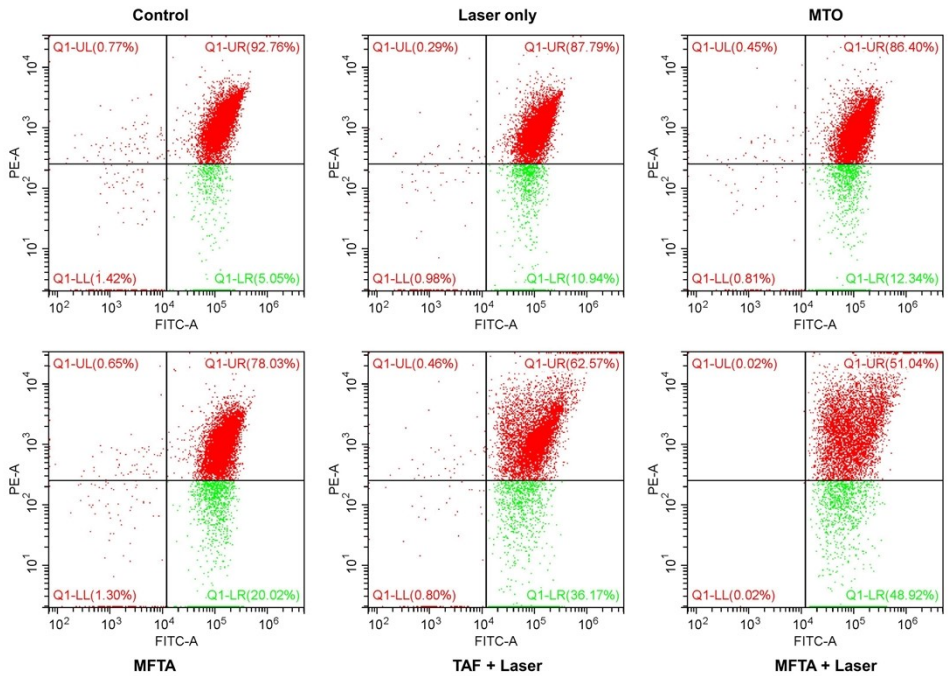
49 **Figure S7.** Transcriptome analysis. (A) Spearman correlation analysis of all samples.
 50 (B) GO enrichment analysis.

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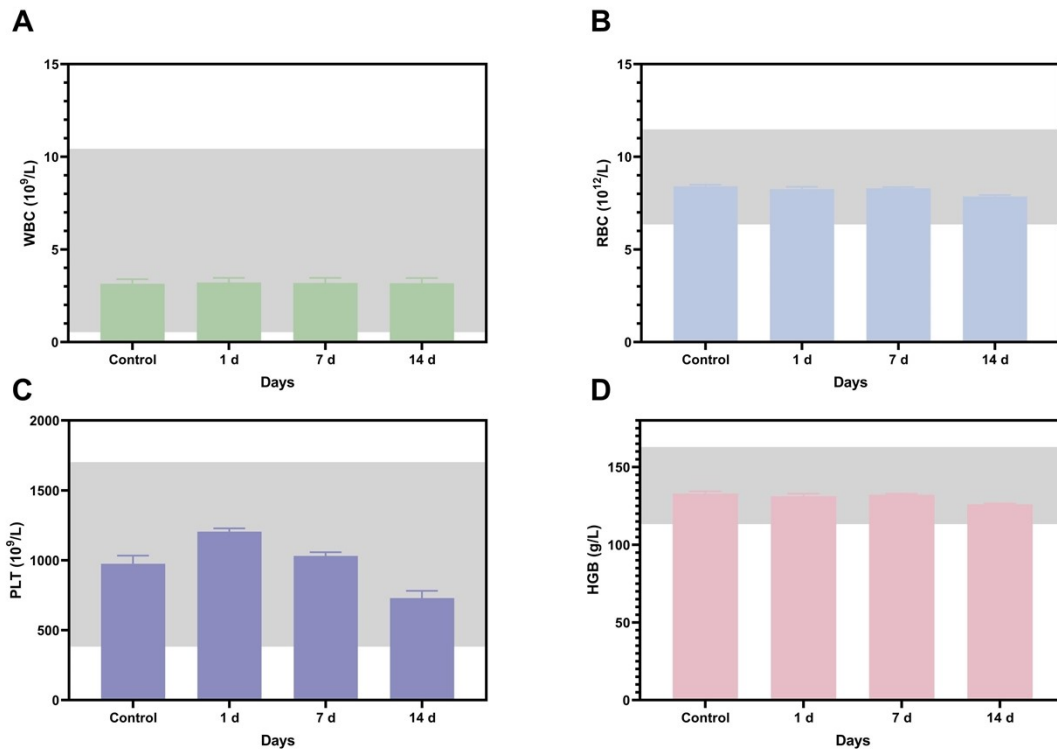
53 **Figure S8.** FCM analysis of LPO in 4T1 cells after various treatments.



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55 **Figure S9.** FCM analysis of JC-1 in 4T1 cells after various treatments.

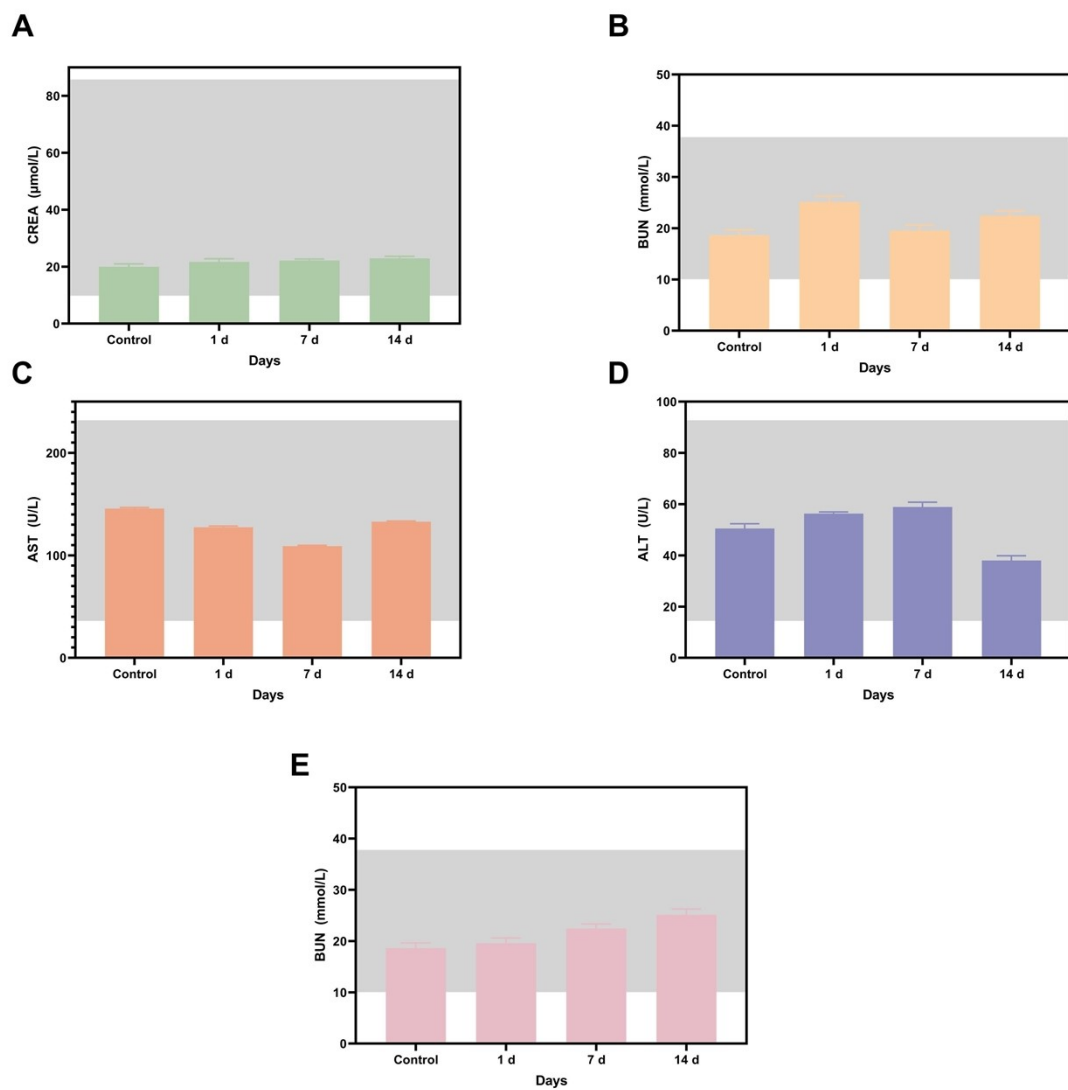
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58 **Figure S10.** Blood biochemistry and blood routine indices of mice.

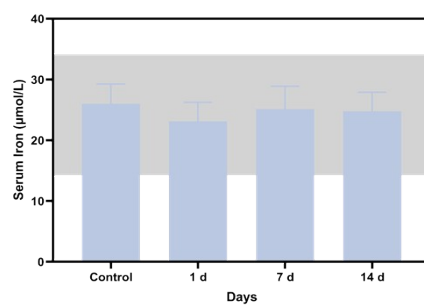
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61 **Figure S11.** Liver and renal function detection of mice.

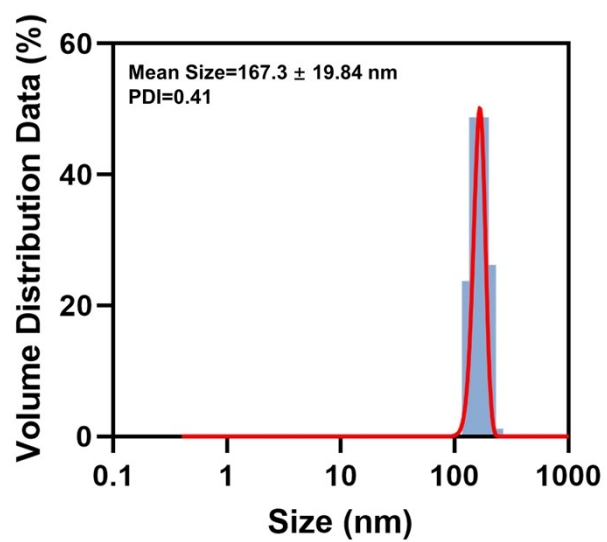
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64 **Figure S12.** Serum iron detection of mice.

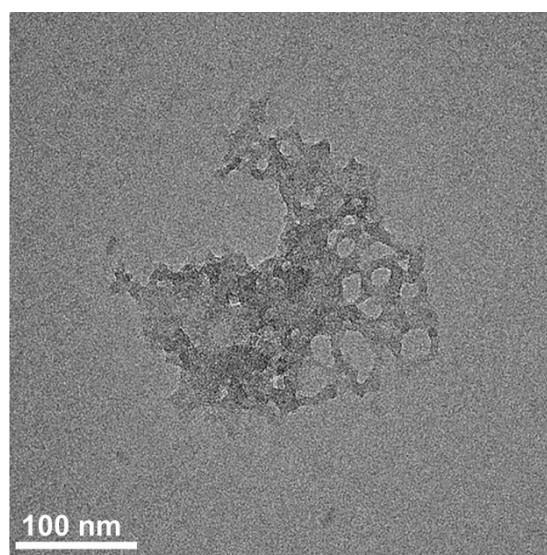
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67 **Figure S13.** DLS size distribution and Gaussian fitting analysis of MFTA .

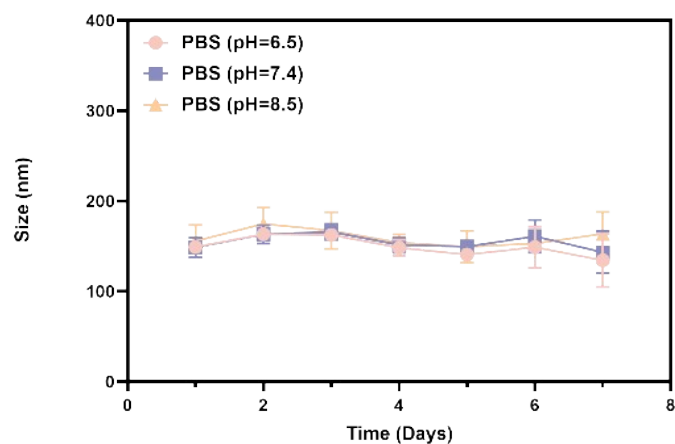
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70 **Figure S14.** TEM image of MFTA at a low concentration of 0.05 mg/mL.

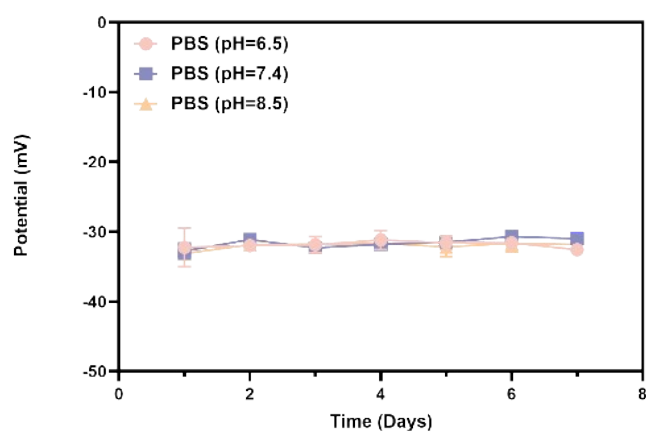
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73 **Figure S15.** The DLS size of MFTA within 7 days in PBS buffers of different pH.

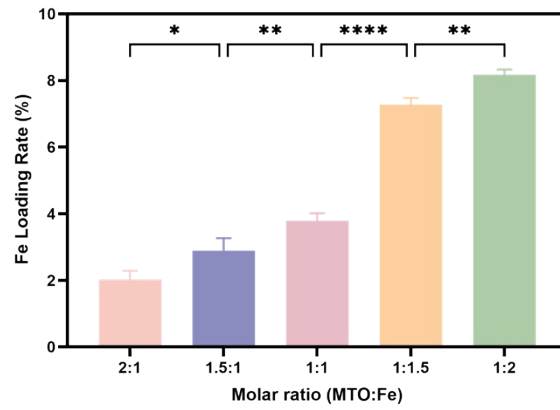
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76 **Figure S16.** The zeta potential of MFTA within 7 days in PBS buffers of different pH.

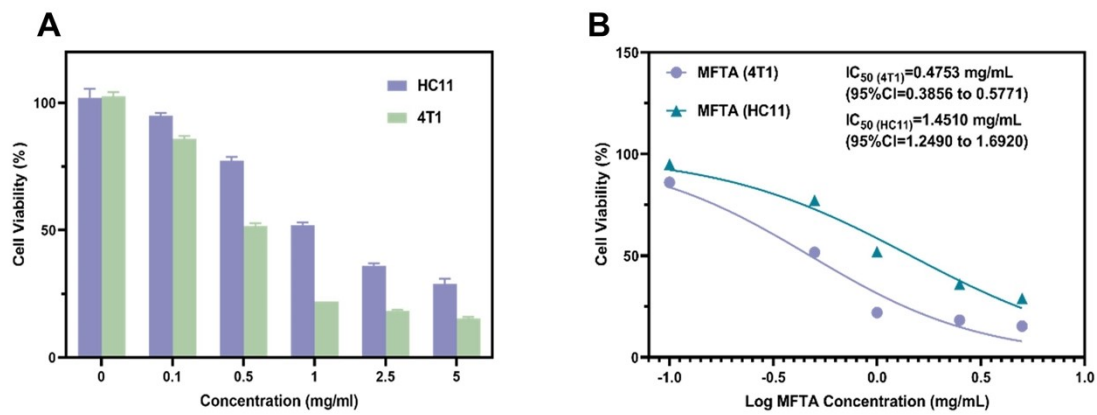
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79 **Figure S17.** Fe loading rate of MFTA in different molar ratio (* $p < 0.05$, ** $p < 0.01$,
 80 **** $p < 0.0001$).

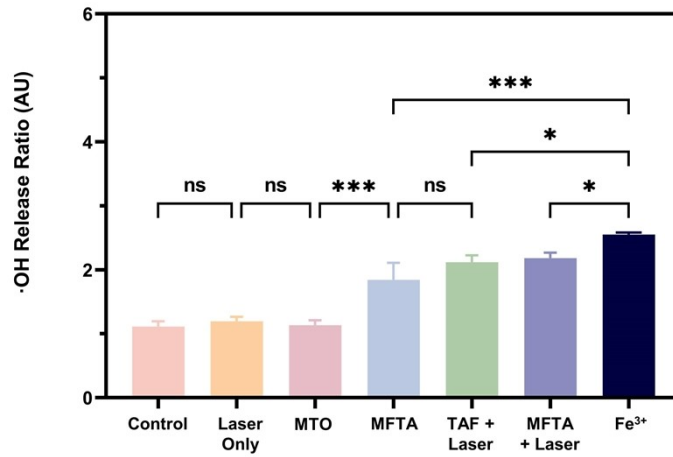
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83 **Figure S18.** CCK-8 test of 4T1 and HC11 cells treated with MFTA.

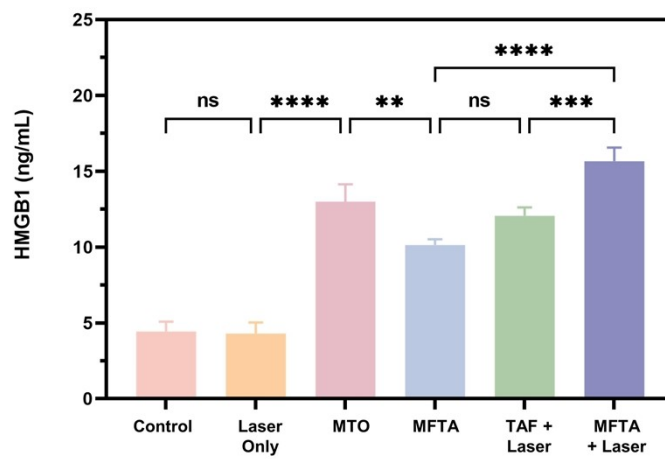
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86 **Figure S19.** ·OH production test of various groups (* $p < 0.05$, *** $p < 0.001$).

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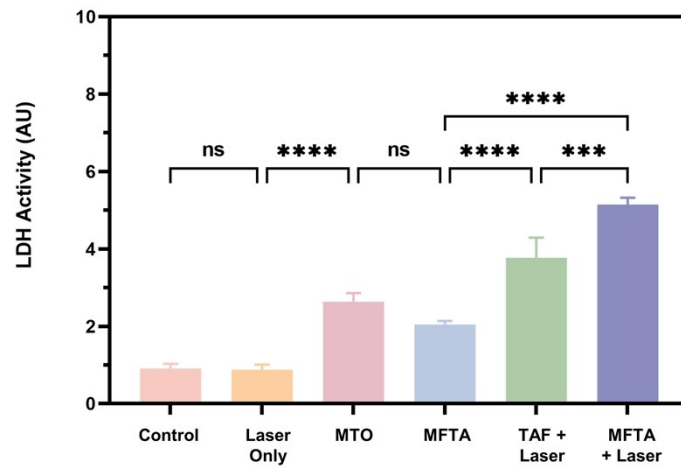


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89 **Figure S20.** Elisa test of HMGB1 release of various groups (** $p < 0.01$, *** $p < 0.001$,

90 **** $p < 0.0001$).

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93 **Figure S21.** LDH release test of various groups (**p < 0.001, ****p < 0.0001).

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