

Figure S1. FETEM images of methylene blue-loaded mesoporous silica-coated gold nanorods on graphene oxide (MB-GNR@mSiO₂-GO).

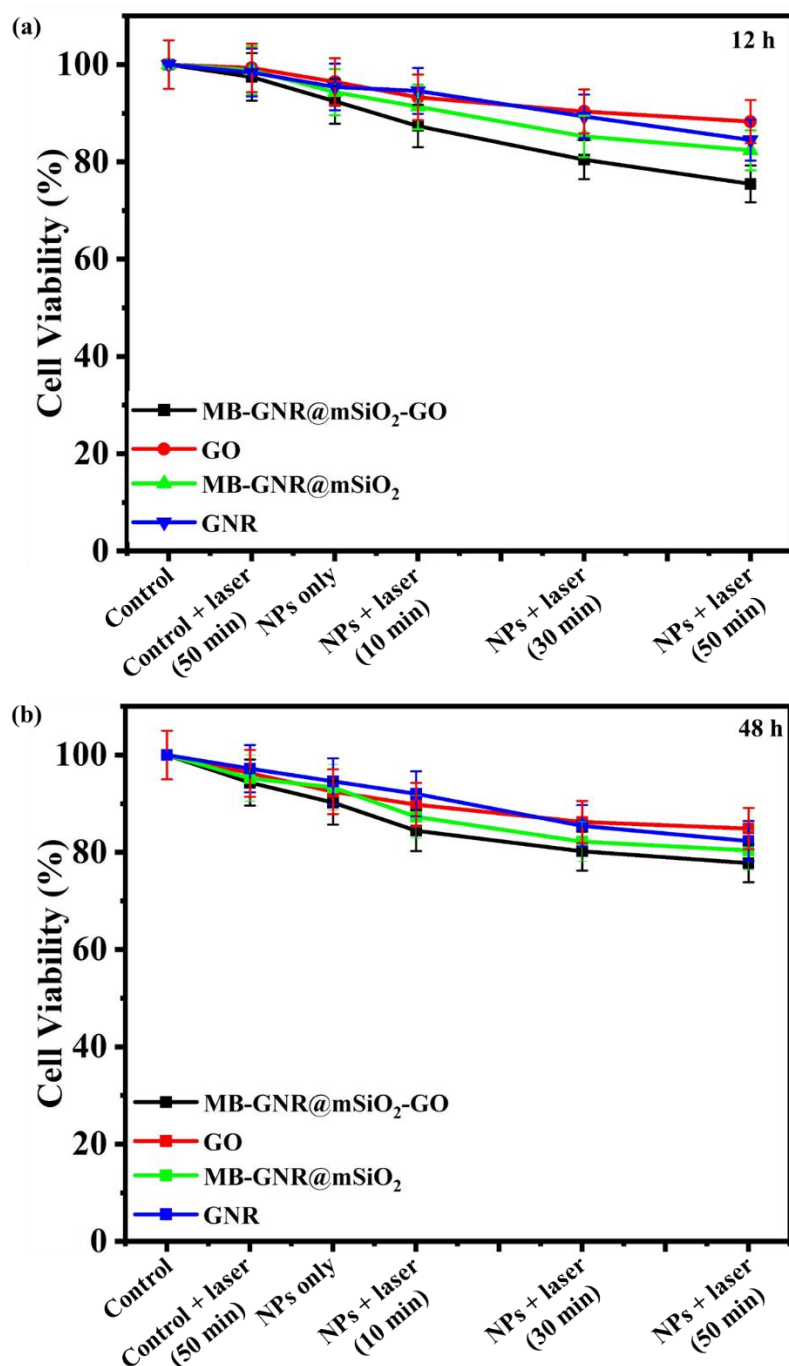


Figure S2. Viability of BLO-11 cells treated with gold nanorod (GNR), methylene blue-loaded mesoporous silica-coated gold nanorod (MB-GNR@mSiO₂), graphene oxide (GO), and methylene blue-loaded mesoporous silica-coated gold nanorods on graphene oxide (MB-GNR@mSiO₂-GO) (200 μ L/mL) for 12 h (a) and 48 h (b) with or without 785 nm laser irradiation at 0.8 W/cm² for various time points (0, 10, 30, and 50 min). Data were expressed as mean \pm S.D ($n = 3$).

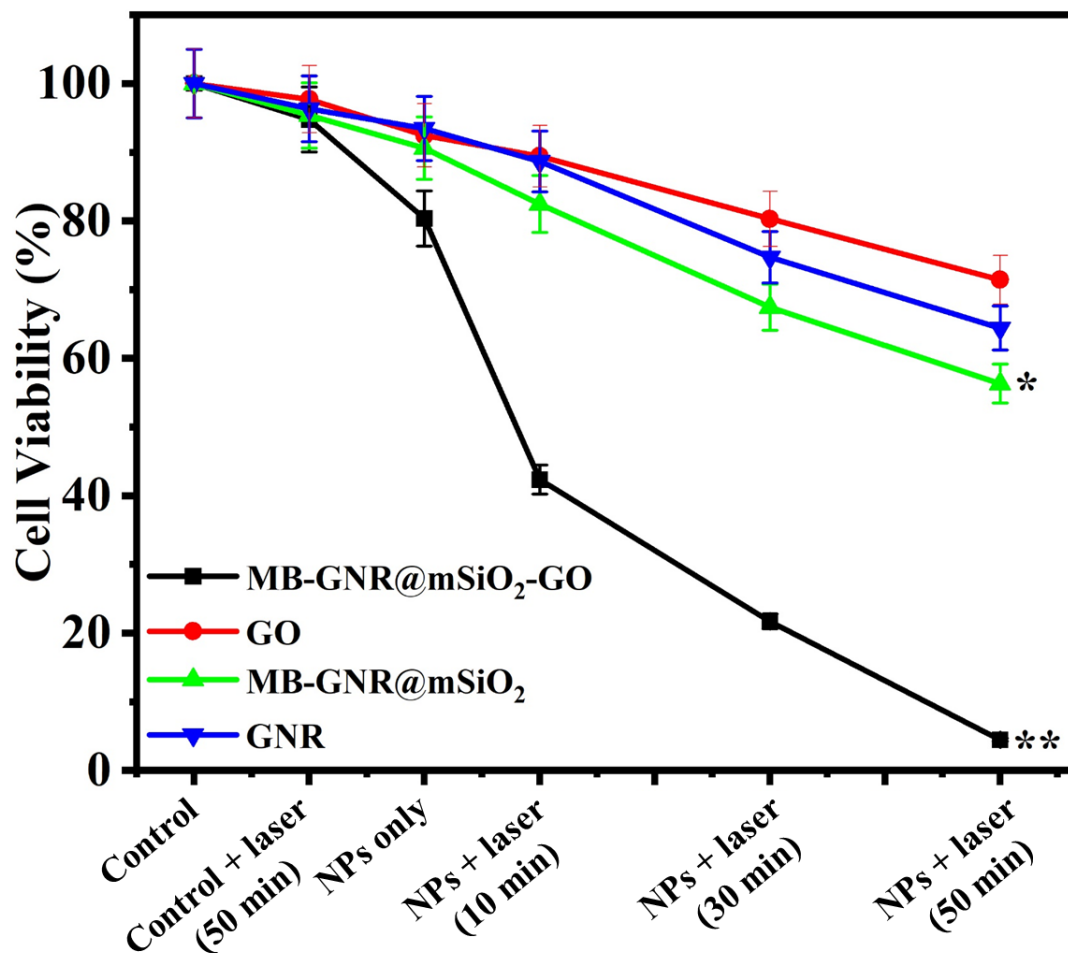


Figure S3. Viability of MDA-MB-231 cells treated with gold nanorod (GNR), methylene blue-loaded mesoporous silica-coated gold nanorod (MB-GNR@mSiO₂), graphene oxide (GO), and methylene blue-loaded mesoporous silica-coated gold nanorods on graphene oxide (MB-GNR@mSiO₂-GO) (200 μ L/mL) for 48 h with or without 785 nm laser irradiation at 0.8 W/cm² for various time points (0, 10, 30, and 50 min). Data were expressed as mean \pm S.D. ($n = 3$, * significant $P < 0.05$, ** significant $P < 0.01$).