polymers

Supplementary Material: Precise Controlled Target Molecule Release through Light-Triggered Charge Reversal Bridged Polysilsesquioxane Nanoparticles

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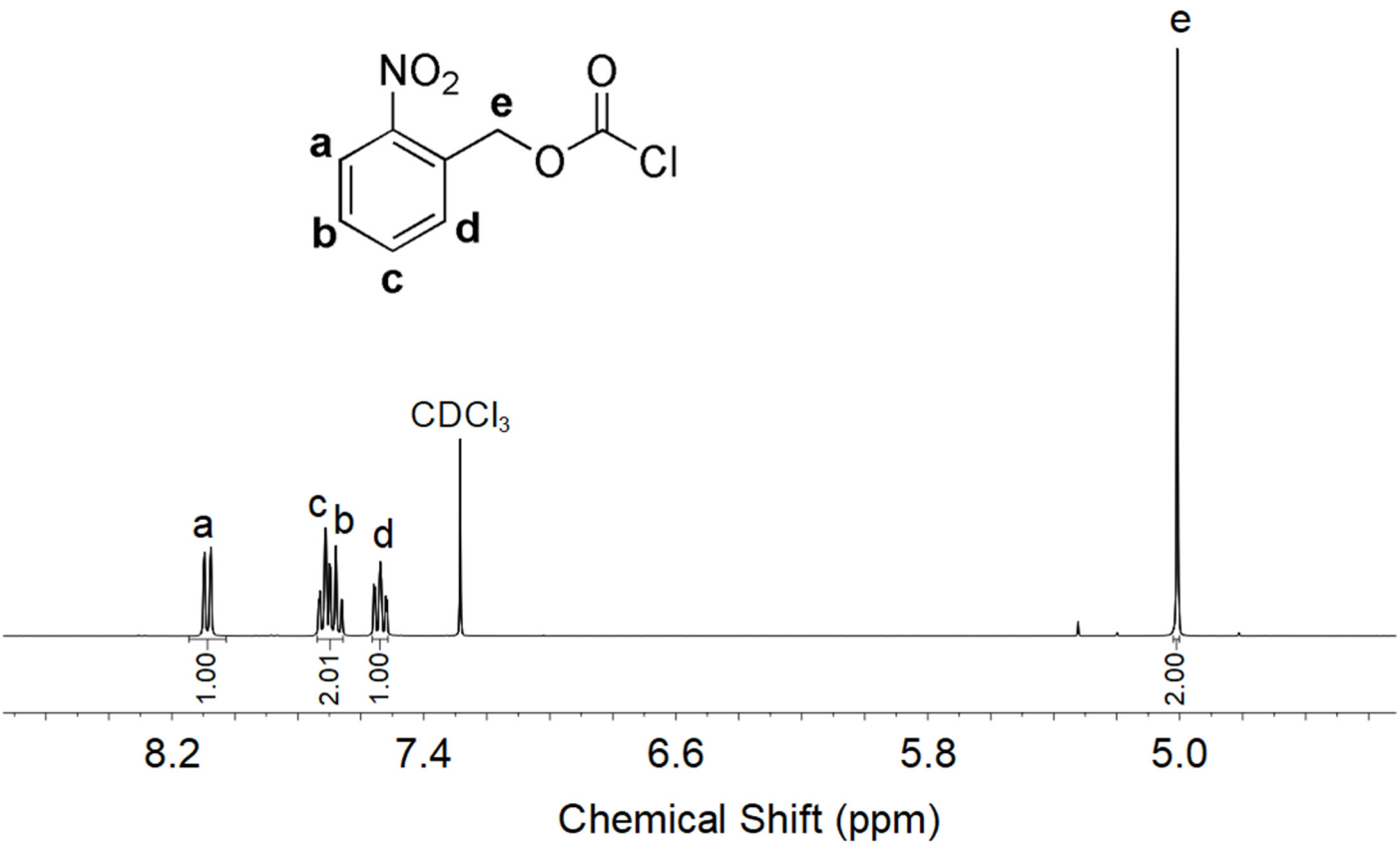

Figure S1. ^{1}H NMR spectrum of *o*-nitrobenzyl chloroformate.

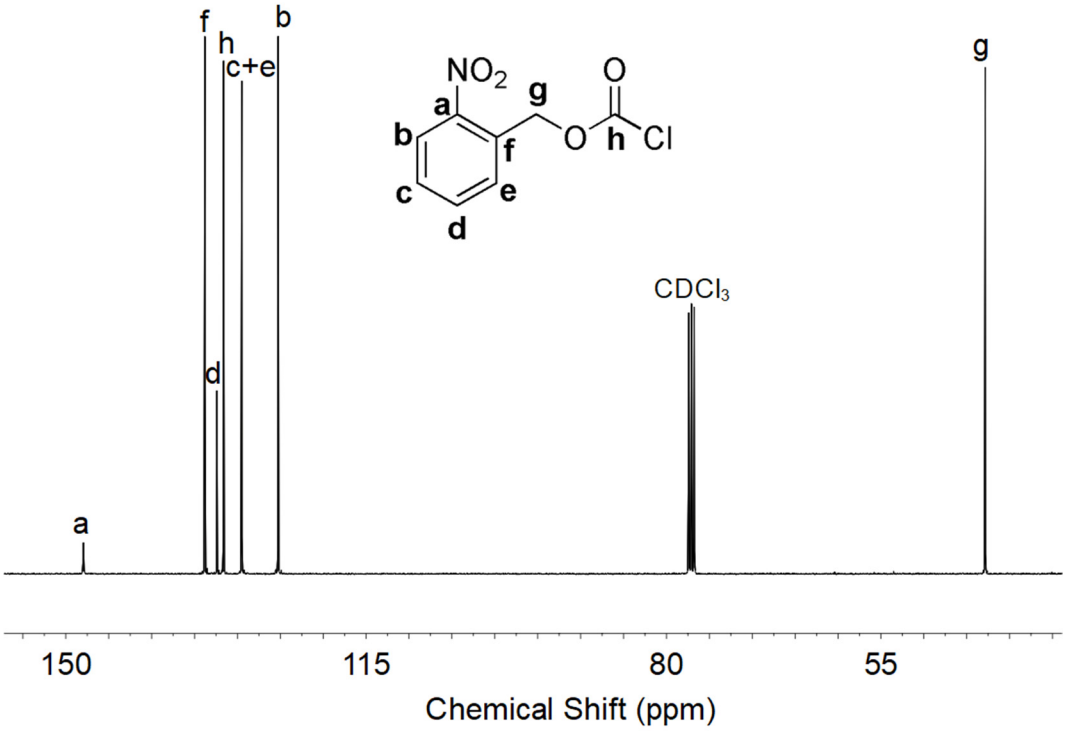

Figure S2. ^{13}C NMR spectrum of *o*-nitrobenzyl chloroformate.

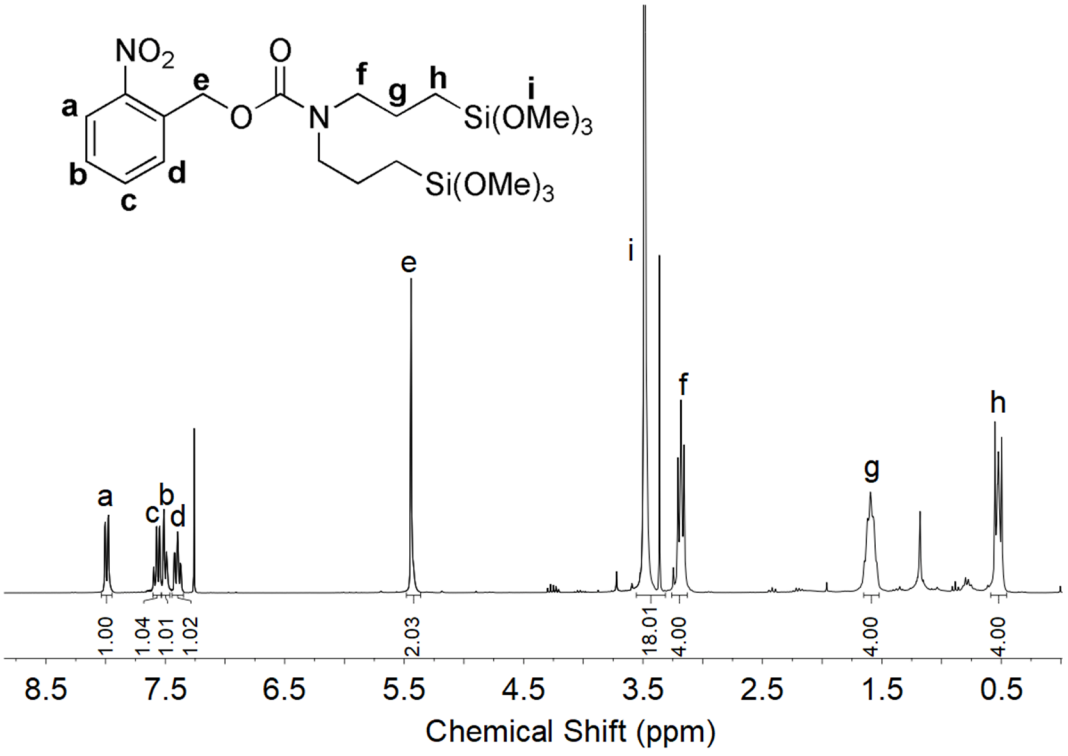

Figure S3. ^{1}H NMR spectrum of *o*-nitrobenzyl bis-trimethoxysilylpropyl carbamate.

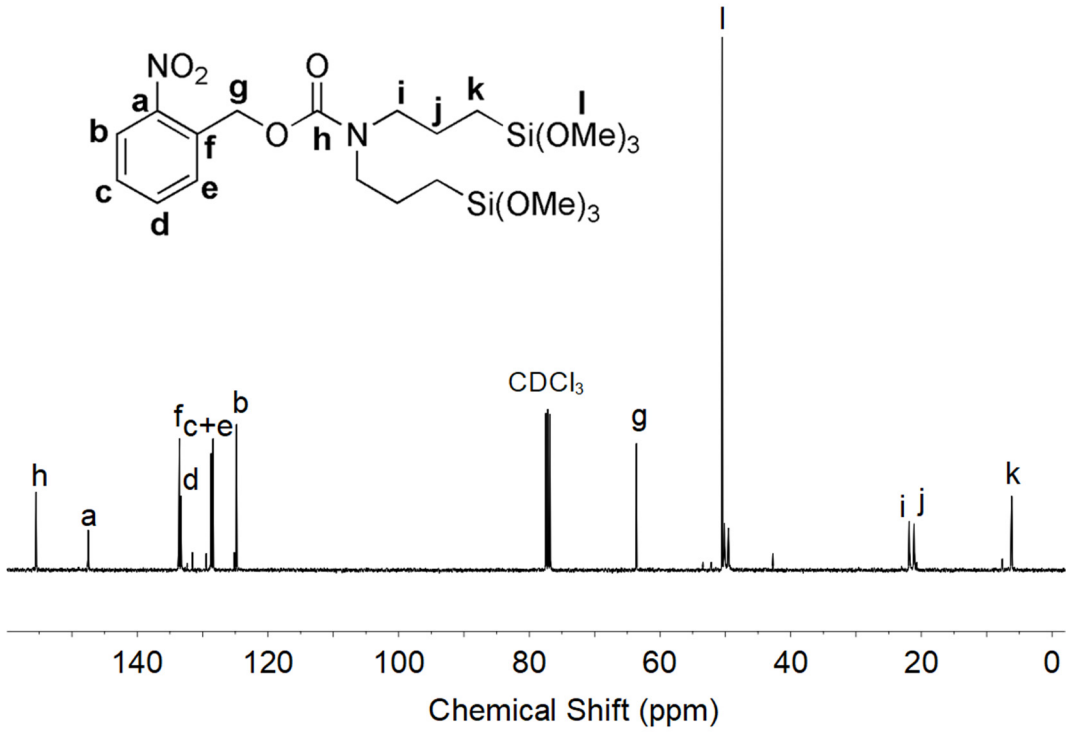

Figure S4. ^{13}C NMR spectrum of *o*-nitrobenzyl bis-trimethoxysilylpropyl carbamate.

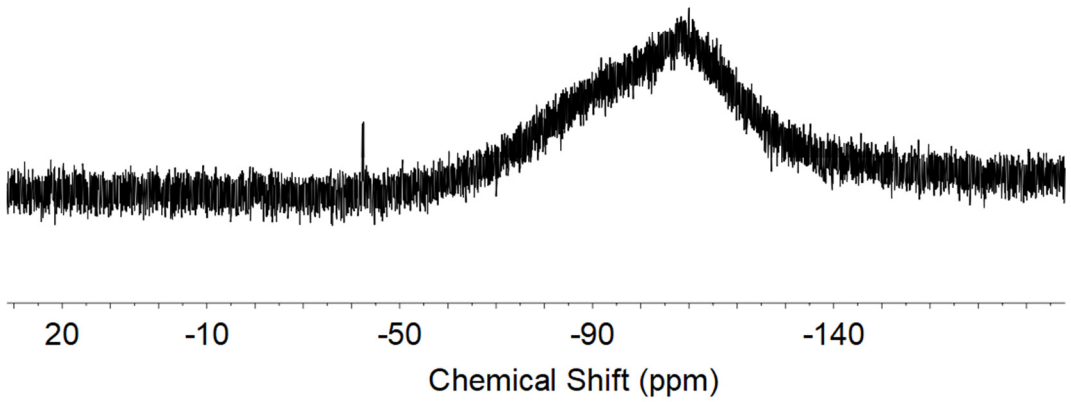

Figure S5. ^{29}Si NMR spectrum of *o*-nitrobenzyl bis-trimethoxysilylpropyl carbamate.

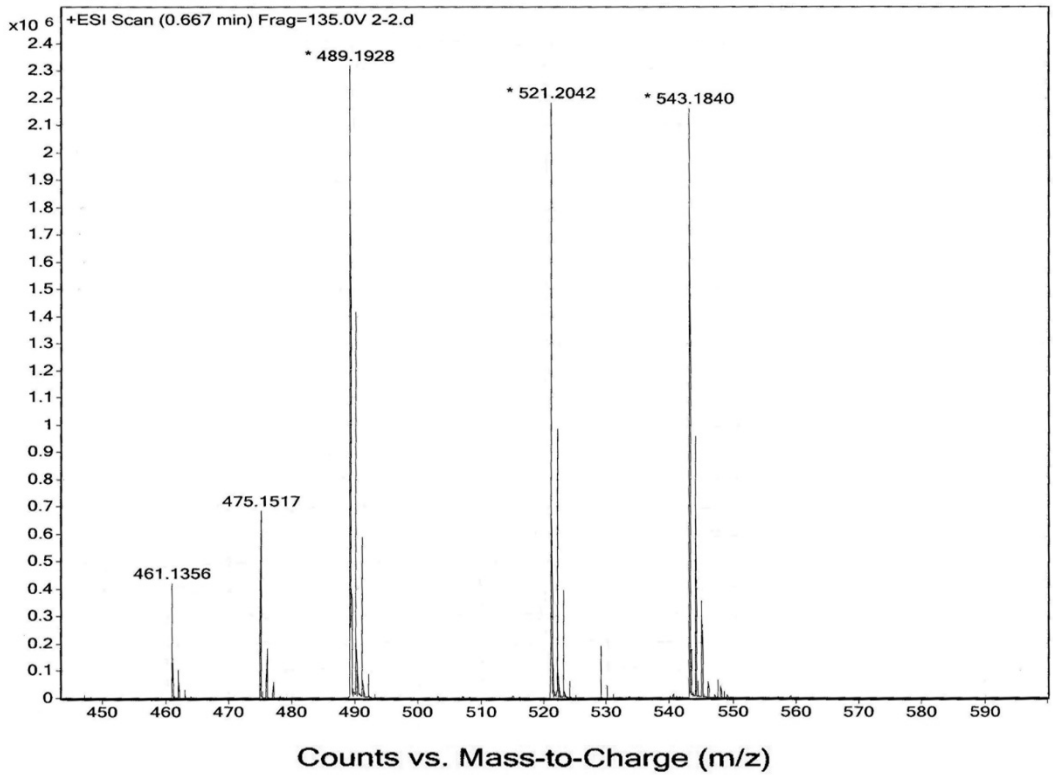

Figure S6. MS spectrum of *o*-nitrobenzyl bis-trimethoxysilylpropyl carbamate.

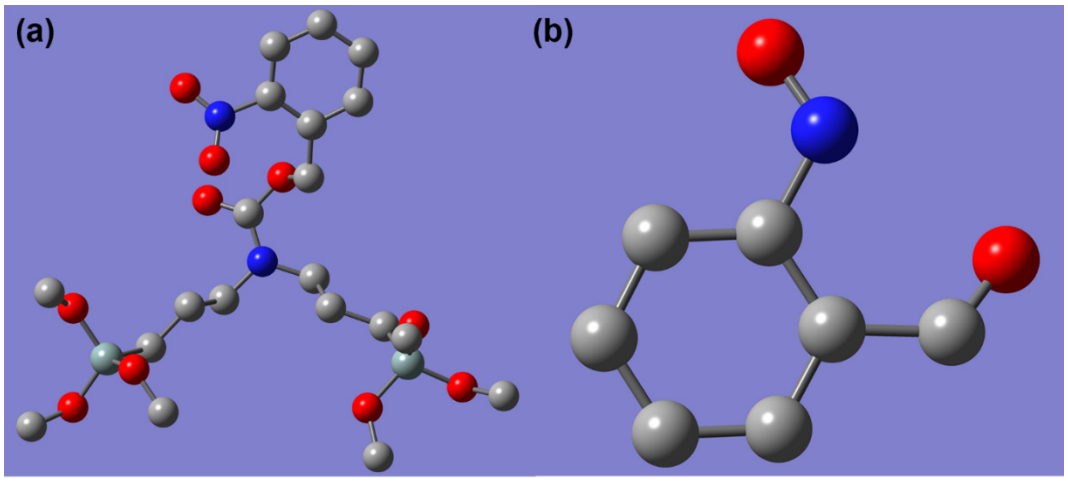

Figure S7. The theroy calculated chemical structures of *o*–NB monomer (a) and photolysis by-product *o*-nitrosobenzaldehyde (b).

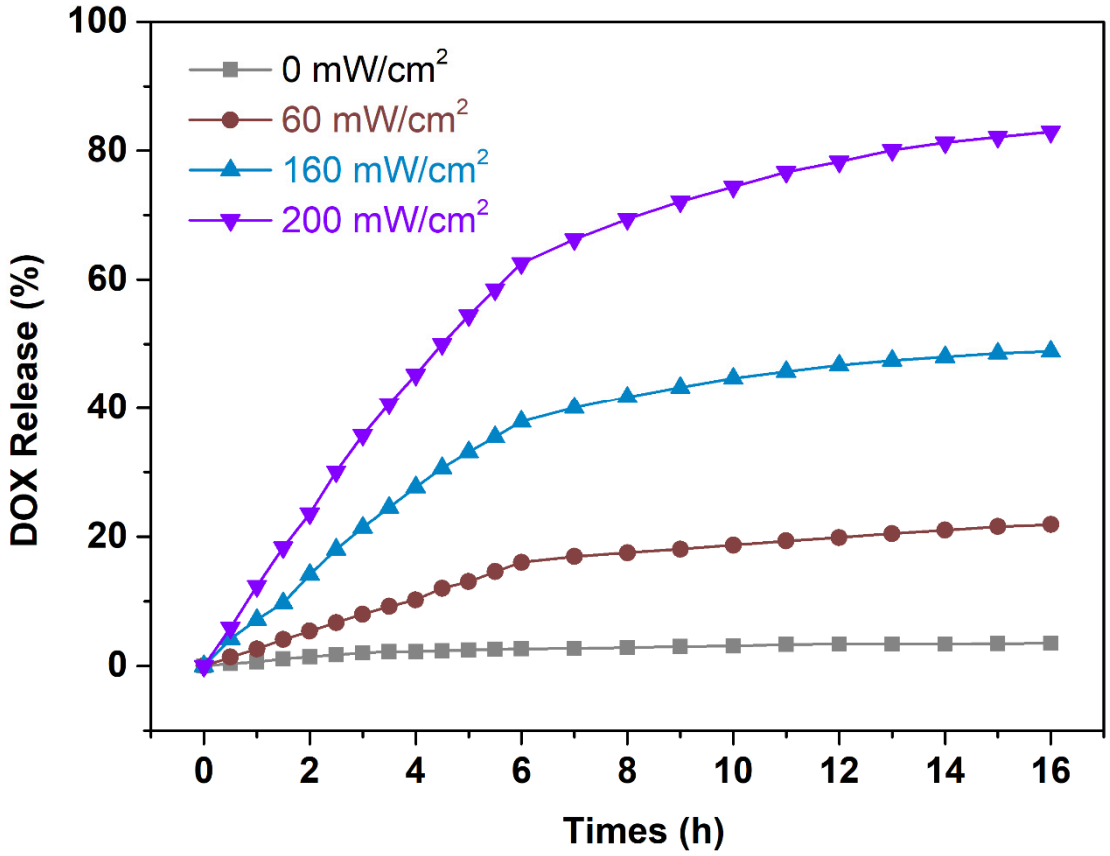

Figure S8. DOX release profiles of DOX@BPS from 0 to 16 h at different laser intensities (0, 60,160, and 200 mW/cm^2) in PBS buffer solution (pH 7.4) at 37 °C.