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Supporting Information







Figure S1. High-resolution FESEM images of PbS(N) NPs/TiO₂ NAs (A, B, and C for N = 5, 10, and 15, respectively).



Figure S2. Cross-section FESEM images of pure TiO_2 NAs (A) and PbS(N) NPs/TiO₂ NAs (B, C, and D for n = 5, 10, and 15, respectively).



Figure S3. EDX analysis of the marked region in Figure 3A.



Figure S4. FESEM image of pure PbS NPs.



Figure S5. Energy band structure diagram of TiO_2 NAs and PbS NPs (> 4 nm) at the equilibrium.

