Supplementary Information

Spectroscopic investigation of interaction between bovine serum albumin and amine-functionalized silicon quantum dots

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Figure S1. FTIR spectrum of synthesized allylamine-capped silicon quantum dots.

[Graph showing FTIR spectrum with labeled peaks at 3445, 2927, 2855, 1637, 1462, 1381, and 1261 cm⁻¹]
Figure S2. Photoluminescence (PL) spectra ($\lambda_{ex}=375$ nm) of Si QDs in absence (black dotted line) and presence (cyan solid line) of 2 µM BSA.
Figure S3. Spectroscopic determination of pK$_a$ of allylamine-capped Si QDs. Plot of absorbance at 260 nm against pH of the solution. pK$_a$ was determined from the point of inflection of the fitted sigmoidal curve.