Supporting Information

Impact of the Chemical Nature and Position of Spacers on Controlling the Optical Properties of Silicon Quantum Dots

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**Figure S1.** Absorption and excitation spectra of Am-SQD collected at room temperature; ($\lambda_{em}$ and $\lambda_{ex}$ indicated on graph).

**Figure S2.** Absorption and excitation spectra of Urea-SQD collected at room temperature; ($\lambda_{em}$ and $\lambda_{ex}$ indicated on graph).
Figure S3. Absorption and excitation spectra of Am-SQD-Flu collected at room temperature; ($\lambda_{em}$ and $\lambda_{ex}$ indicated on graph).

Figure S4. Absorption and excitation spectra of DiAm-SQD-Flu collected at room temperature; ($\lambda_{em}$ and $\lambda_{ex}$ indicated on graph).
Figure S5. Absorption and excitation spectra of Urea-SQD-Flu collected at room temperature; ($\lambda_{em}$ and $\lambda_{ex}$ indicated on graph).

Figure S6. Absorption and excitation spectra of SQD-FL collected at room temperature; ($\lambda_{em}$ and $\lambda_{ex}$ indicated on graph).
Figure S7. Absorption and excitation spectra of FTIC collected at room temperature; ($\lambda_{\text{em}}$ and $\lambda_{\text{ex}}$ indicated on graph).

Figure S8. Relative fluorescence intensity changes at different pH values.