

Facile synthesis of silicon quantum dots with photoluminescence in the near-ultraviolet to violet region *via* wet oxidation

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Table S1. Heating rates and durations for thermal pyrolysis.

C1	T1	C2	T2	C3	T3
RT	60 min	300 °C	30 min	600 °C	45 min
C4	T4	C5	T5	C6	T6
600 °C	40 min	1000 °C	360 min	1000 °C	End

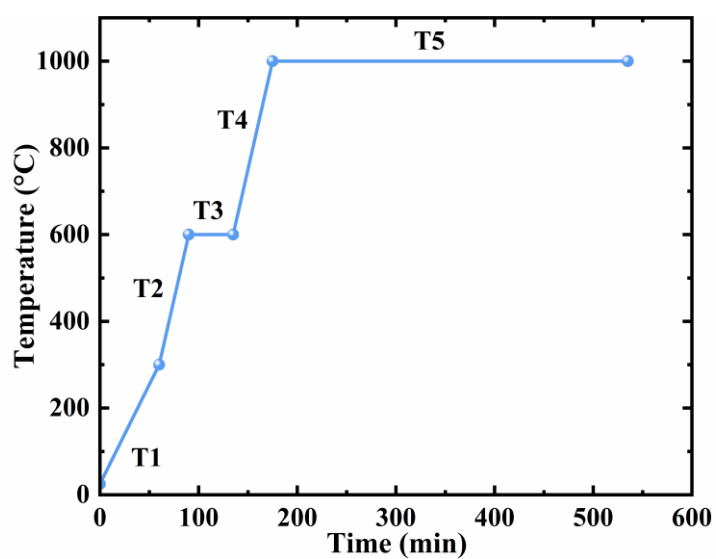


Figure S1. Procedure of thermal pyrolysis for HSQ polymers.

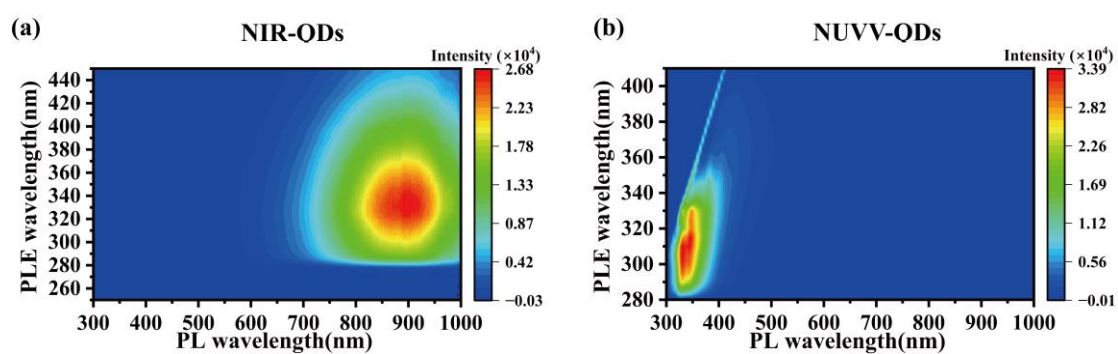


Figure S2. (a-b) 2D PL spectra of the NIR-QDs and the NUVV-QDs ($\lambda_{em} = 300-1000$ nm).

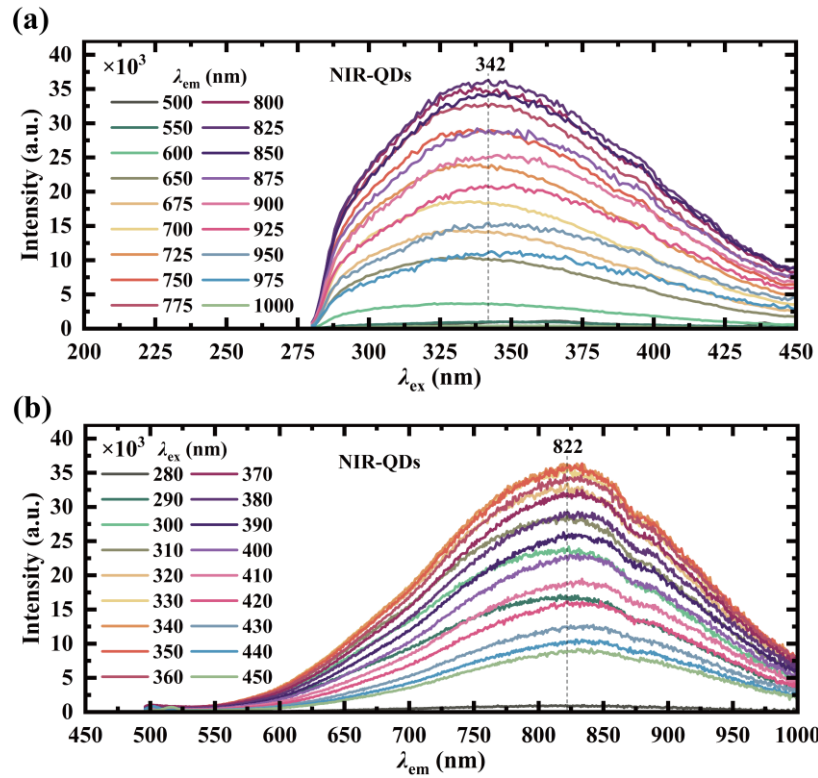


Figure S3. (a) PLE spectra of the NIR-QDs; (b) PL spectra of the NIR-QDs.

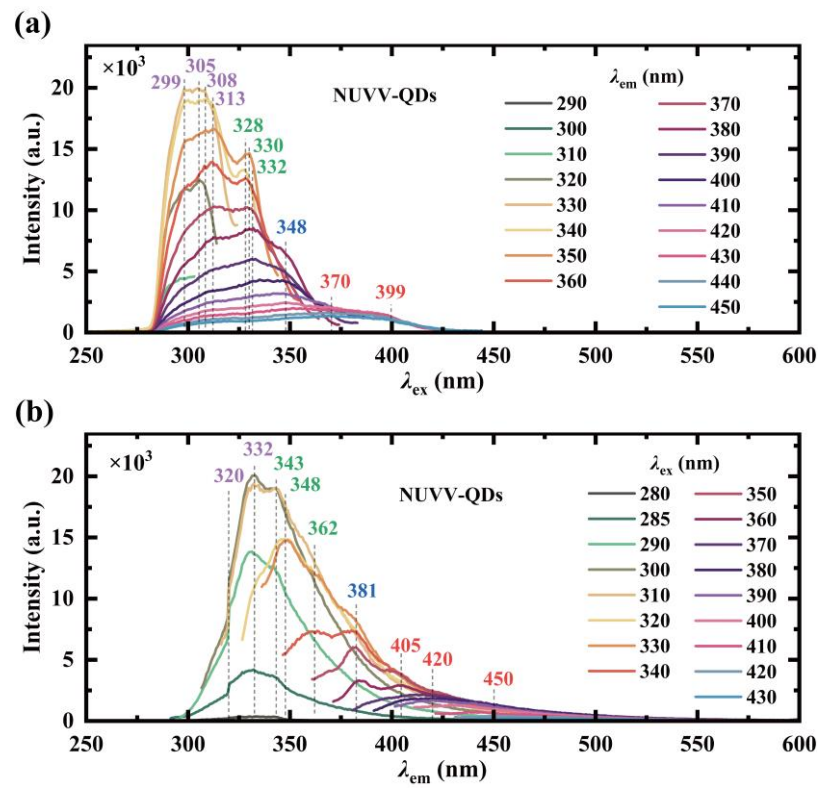


Figure S4. (a) PLE spectra of the NUVV-QDs; (b) PL spectra of the NUVV-QDs.

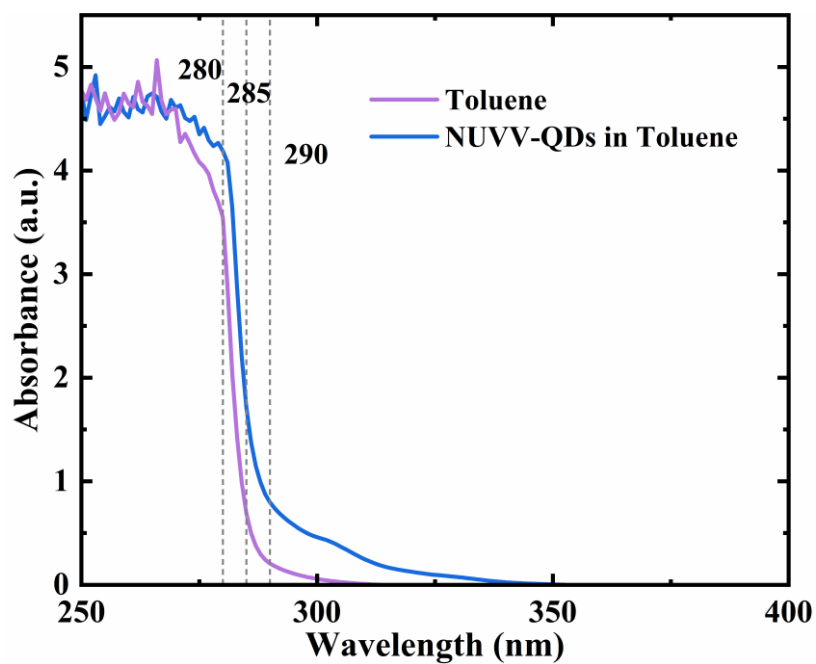


Figure S5. UV-Vis absorption spectra of toluene and NUVV-QDs solutions.

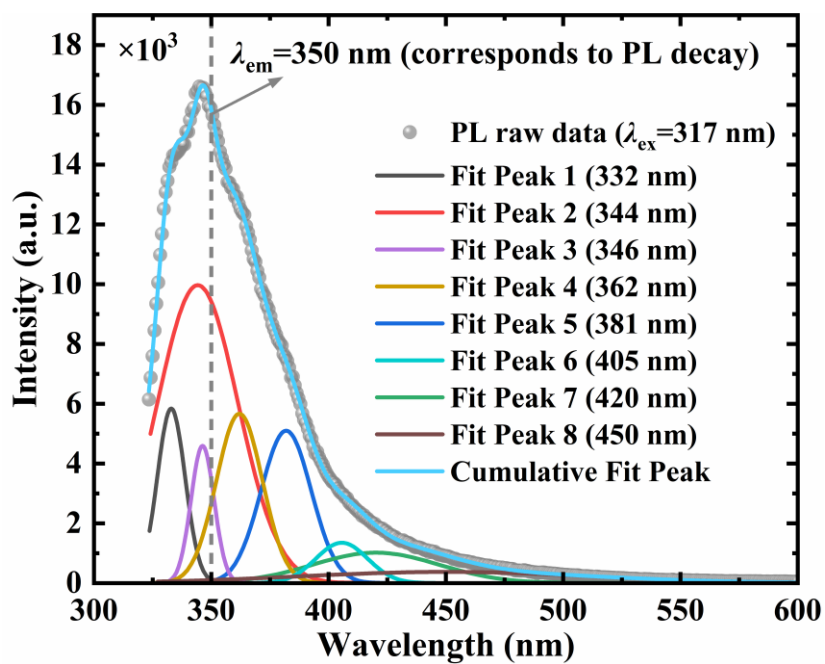


Figure S6. Eight Gaussian peaks of the decomposition of the PL spectrum ($\lambda_{\text{ex}} = 317$ nm) for NUVV-QDs.

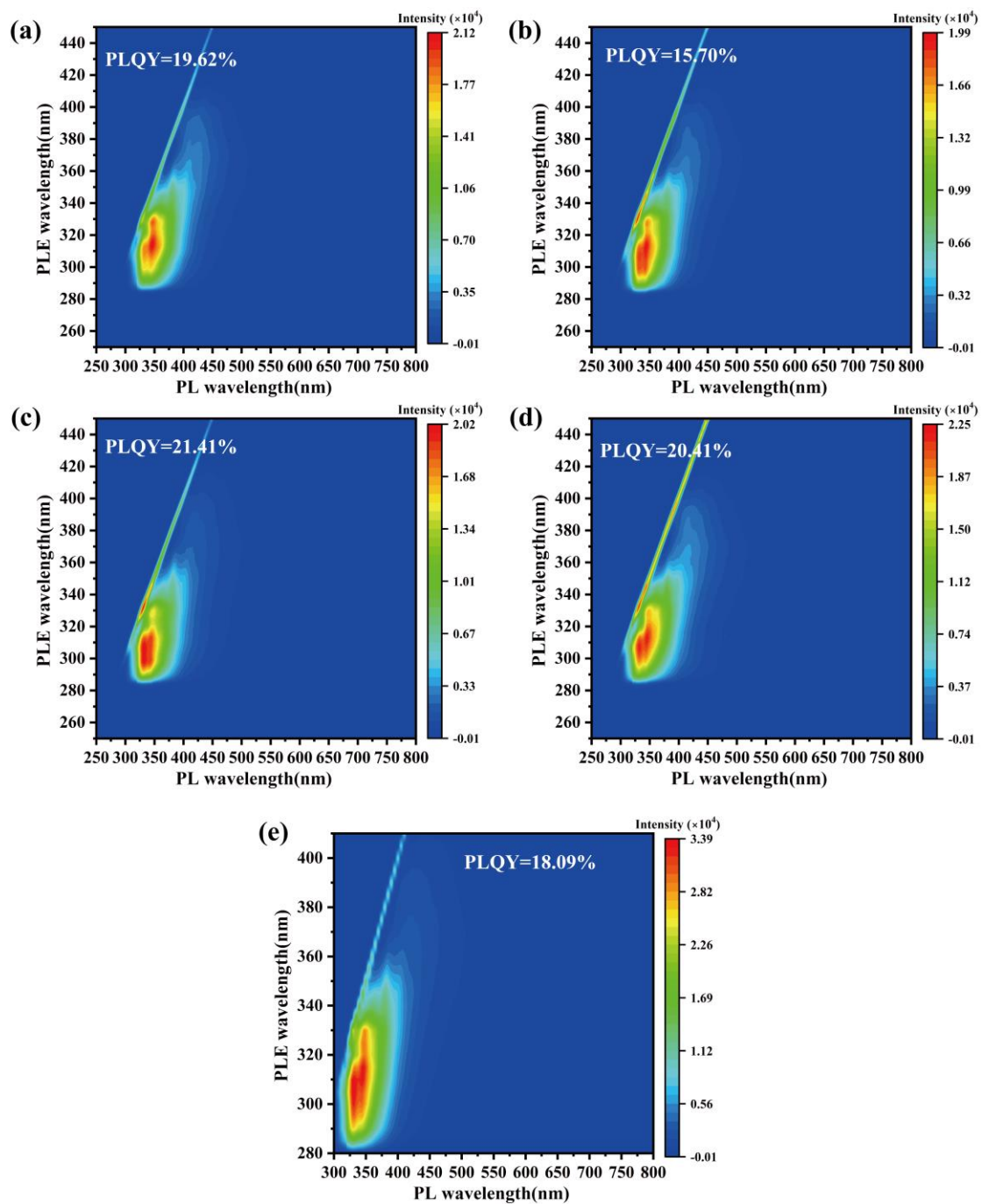


Figure S7. (a-e) 2D PL spectra and PLQYs of five independently prepared samples of the NUVV-QDs.

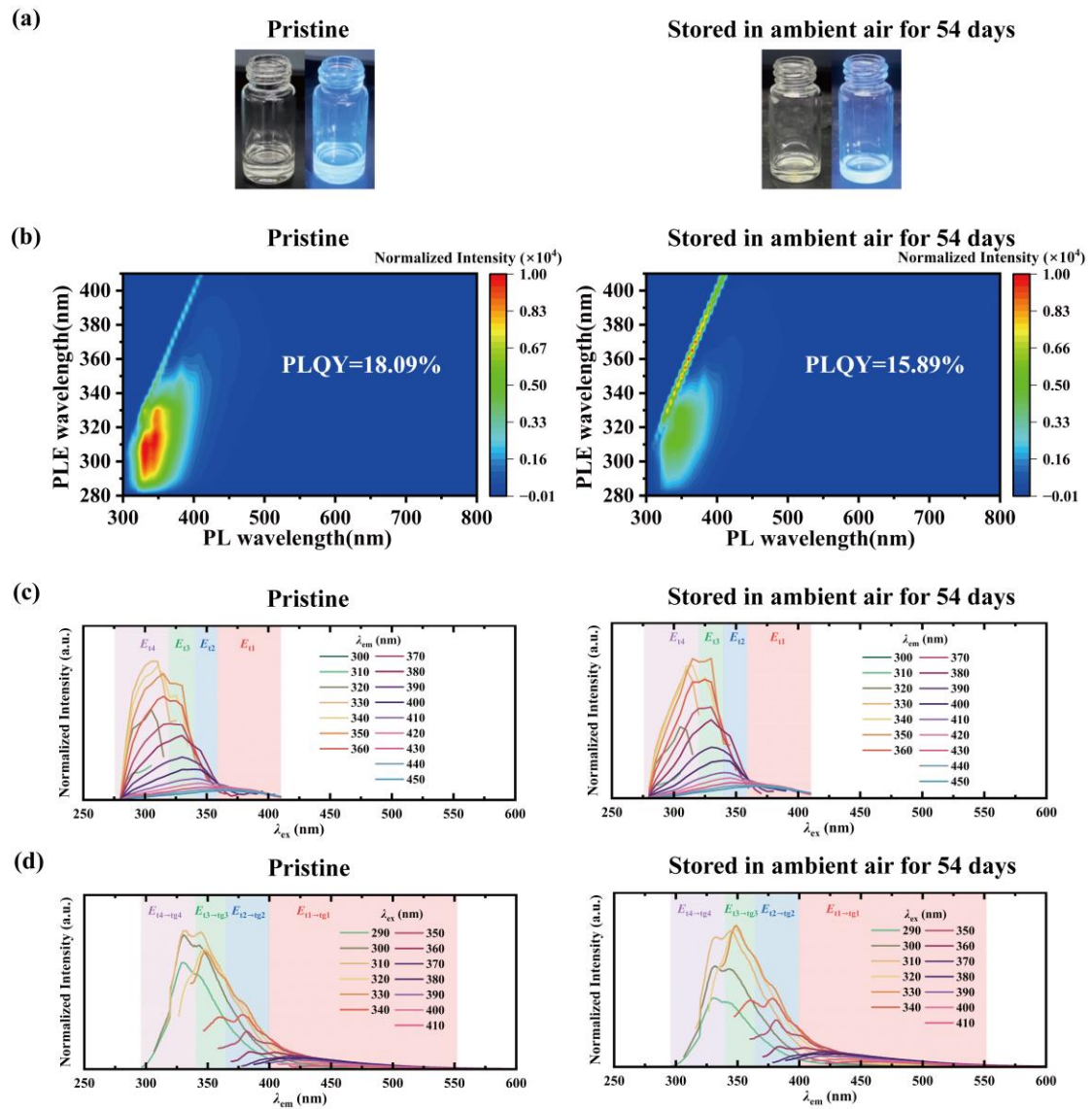


Figure S8. (a) Photographs of the NUVV-QDs before and after air-storage. (UV lamps emit at 365 nm); (b) 2D PL spectra of the NUVV-QDs before and after air-storage; (c) PLE spectra of the NUVV-QDs before and after air-storage; (d) PL spectra of the NUVV-QDs before and after air-storage.