

Supporting Information

Full-Band UV Shielding and Highly Luminescent Silane Functionalized Graphene Quantum Dot Nanofluids and Their Arbitrary Polymerized Hybrid Gel Glasses

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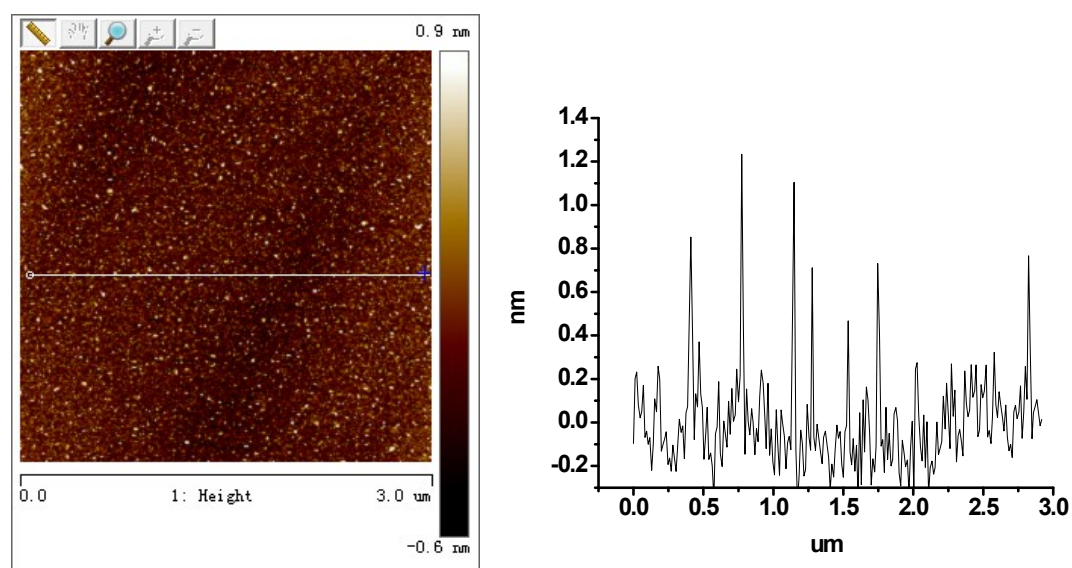


Figure S1. AFM of SiGQDs and their height distribution.

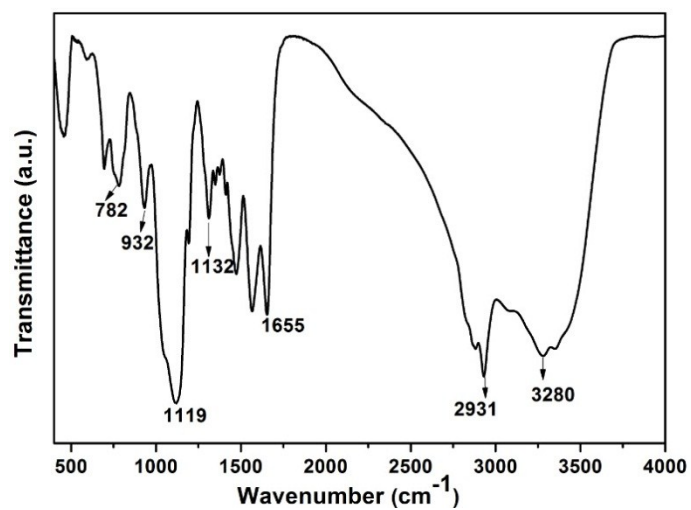


Fig. S2. FTIR spectra of SiGQDs.

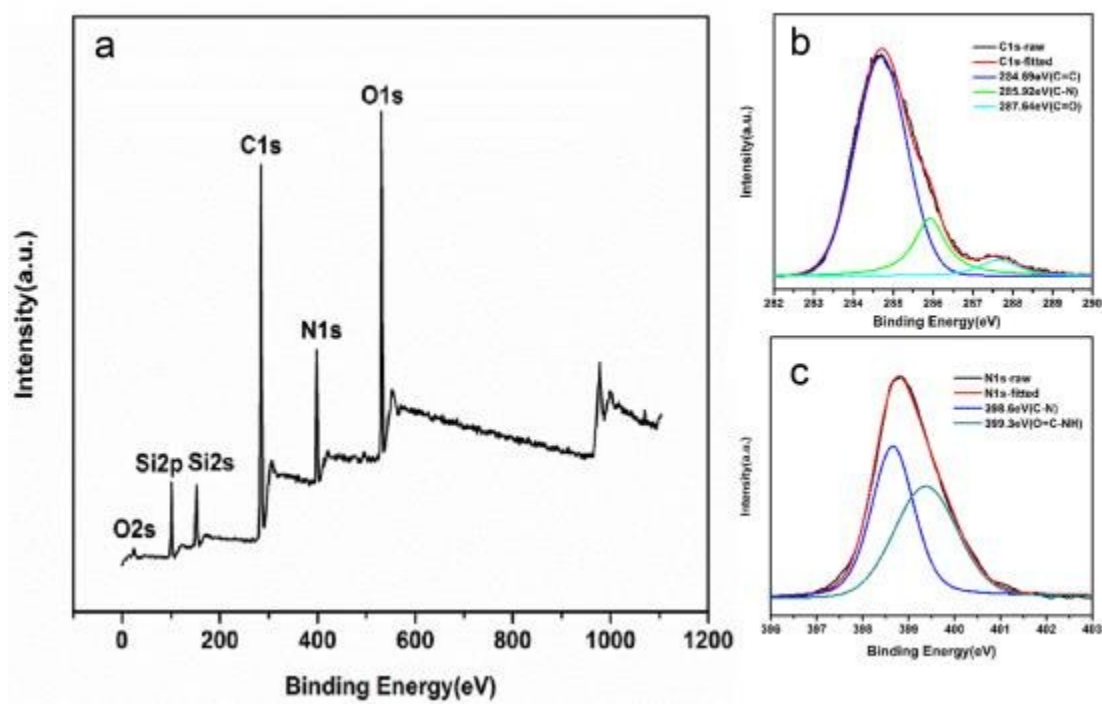


Fig. S3 XPS spectra of SiGQDs.

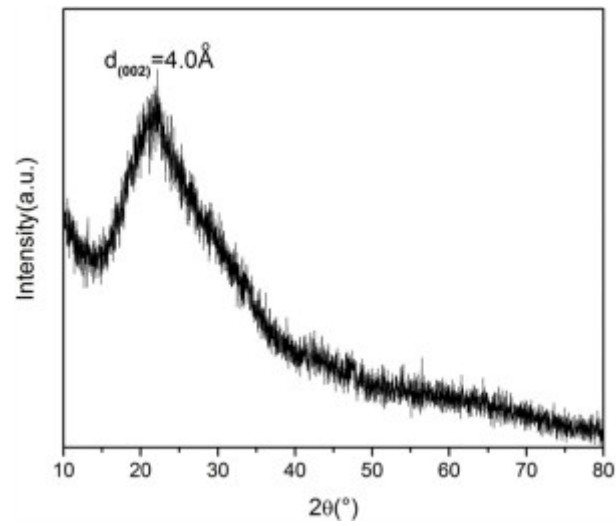


Fig. S4 XRD spectra of SiGQDs.

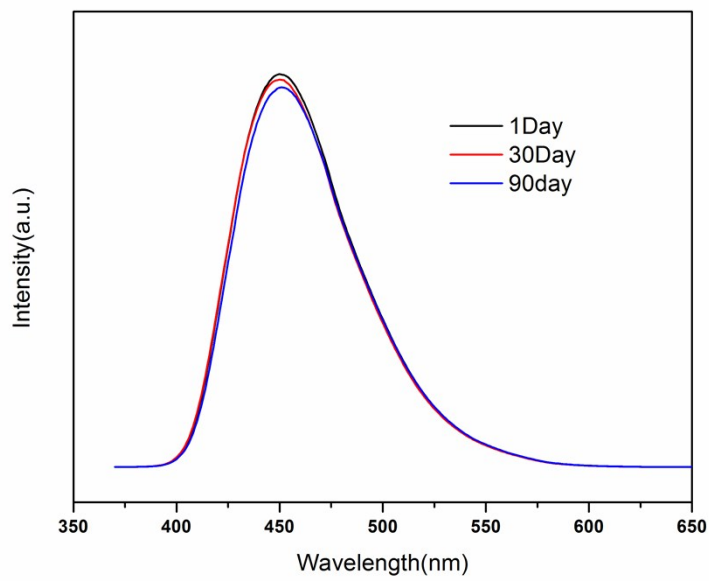


Fig. S5. PL emission spectra (excited at 360 nm) of SiGQDs after 1-90 days under ambient conditions.

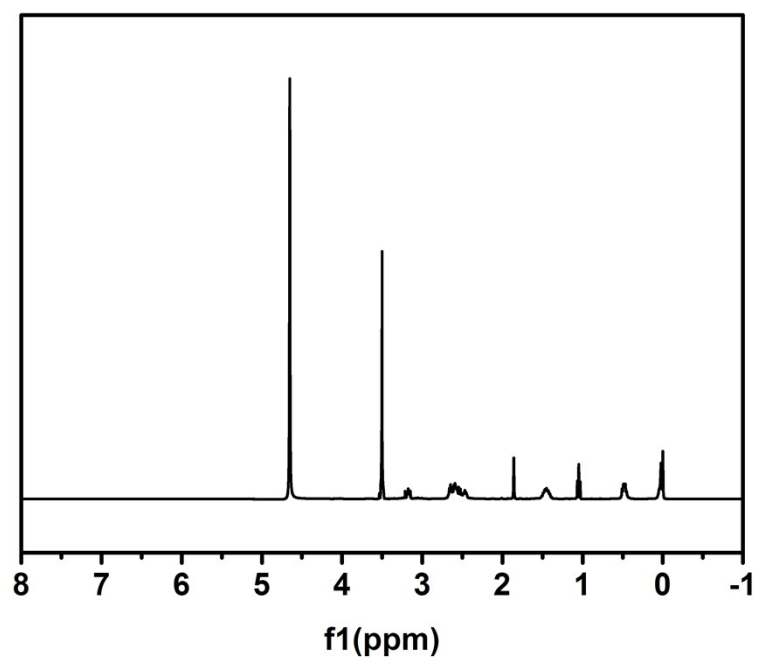


Figure S6. ^1H NMR spectra of SiGQDs

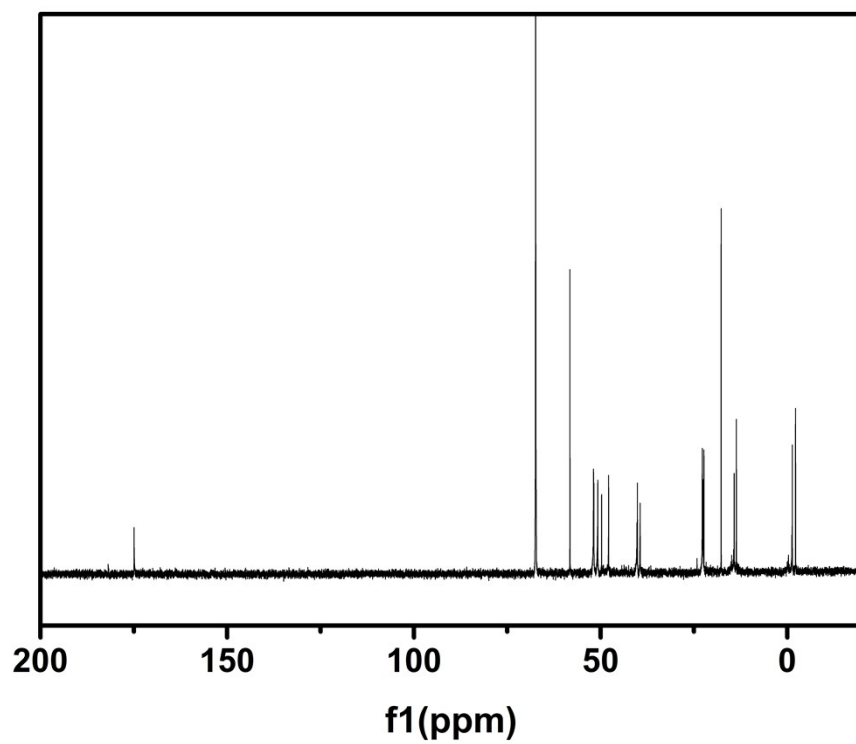


Figure S7. ^{13}C NMR spectra of SiGQDs

Table S1. Spectra data of SiGQD polymerized gel glasses with various concentrations excited at 360 nm

concentration [wt %]	0.001	0.01	0.1	1	5	10	20	40	60	80	100
UV [nm]	360	362	362	362	362	362	362	362	362	362	361
PL [nm]	438	439	443	448	469	503	504	515	539	545	548
Absolute QY [%]	28	55	96	85	80	68	59	50	48	45	40