

Supporting Information

49.25% efficient cyan emissive sulfur dots via microwave-assisted route

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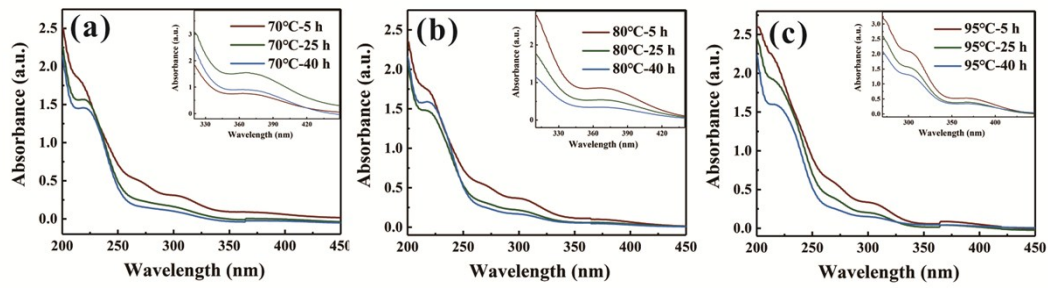


Figure.S1 PL spectra of the SDs synthesized at different heating time under different nucleation temperatures of (a) 70°C, (b) 80°C, and (c) 95°C.

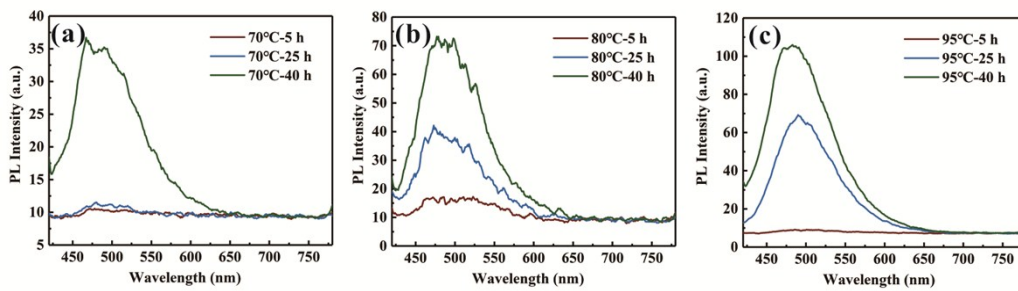


Figure.S2 UV-vis absorption spectra of the SDs diluted 1000 times and 10000 times (inset) at different heating time under different nucleation temperatures of (a) 70°C, (b) 80°C, and (c) 95°C.

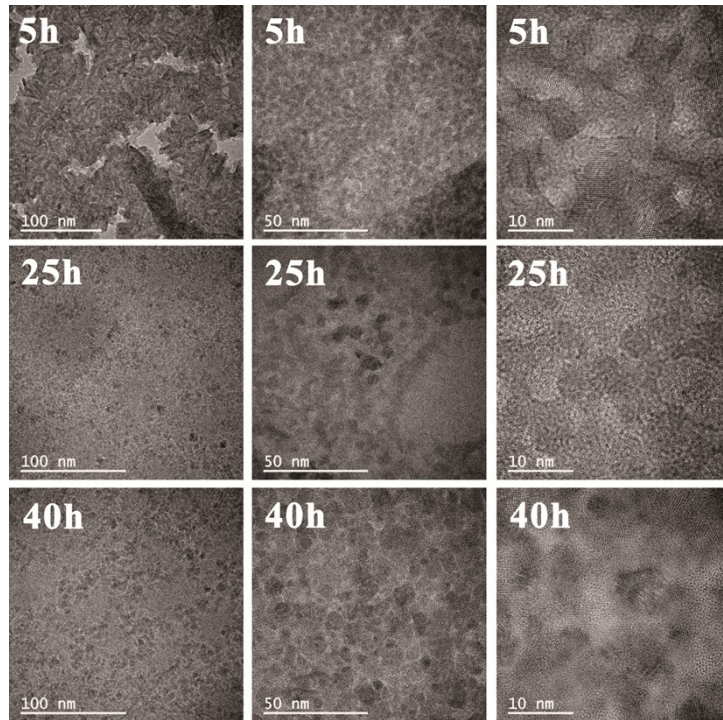


Figure.S3 TEM images of the SDs synthesized under 90°C at different heating time.

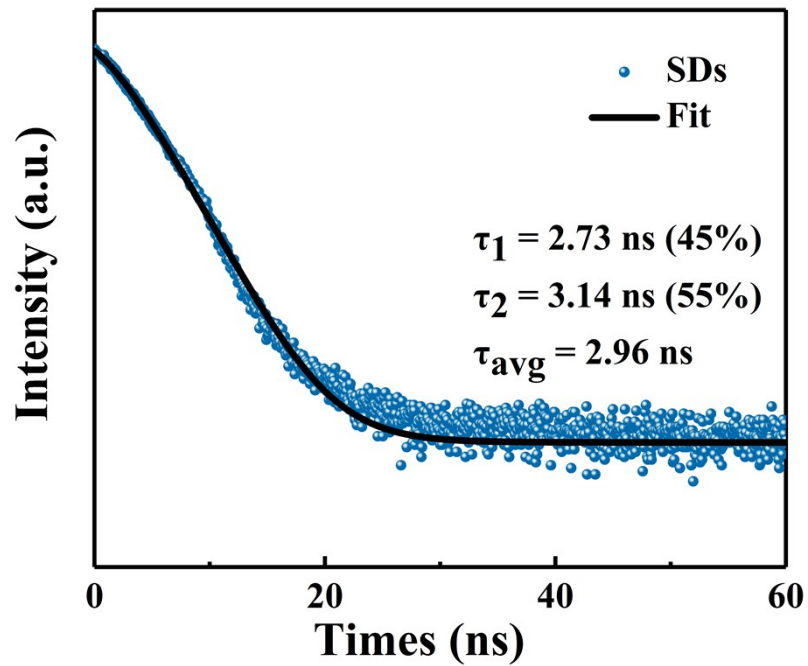
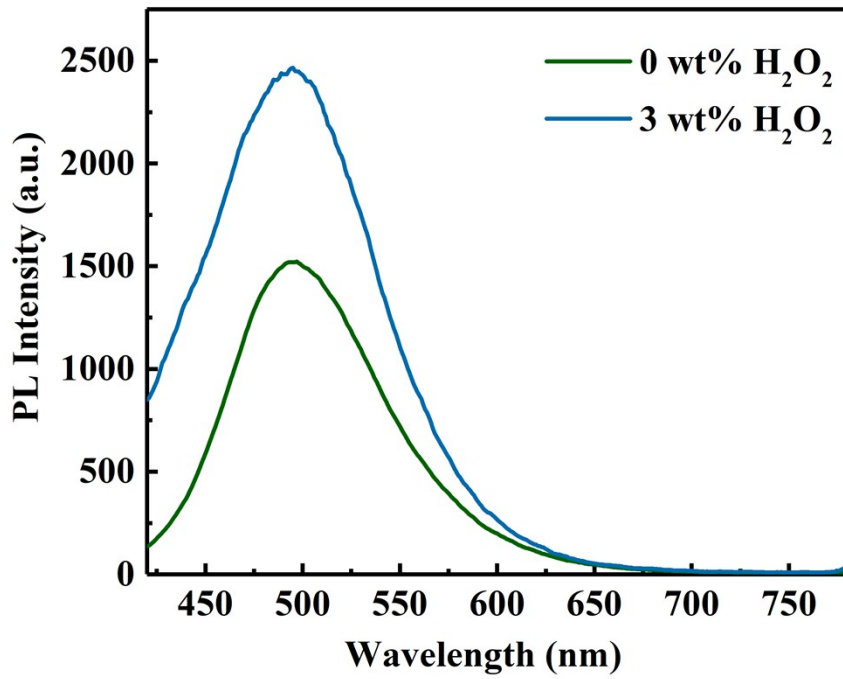


Figure.S4 PL decay curve of the SDs under 90°C for 40 h treated with 3 wt% H₂O₂ solution.



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e.S5 PL spectra of the SDs synthesized under 90°C for 40 h treated with 0 and 3 wt% H₂O₂ solution.