

Supporting Information

Mechanical Force-Induced Color-Variable Luminescence of Carbon Dots in Boric Acid Matrix

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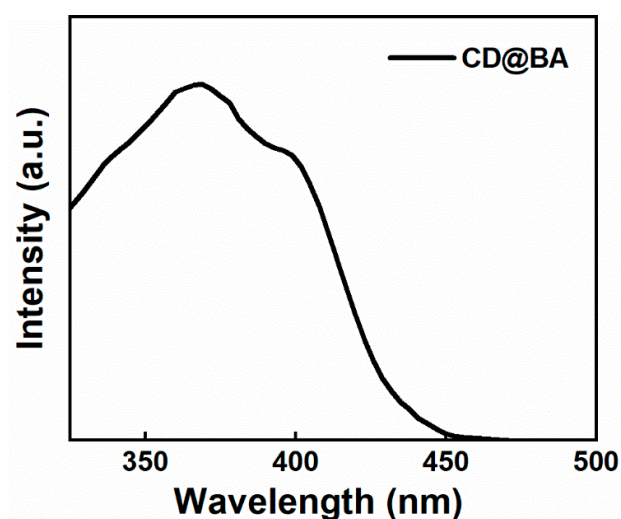


Figure S1 Phosphorescence excitation spectrum of CD@BA bulk under 530 nm emission.

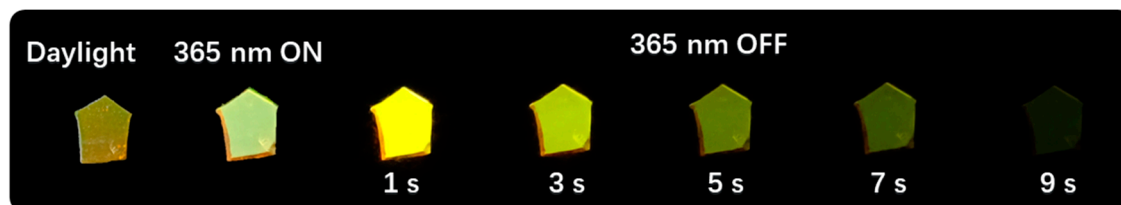


Figure S2 Digital photographs of CD@BA bulk before and after turning off the 365 nm UV-irradiation source and under daylight conditions.

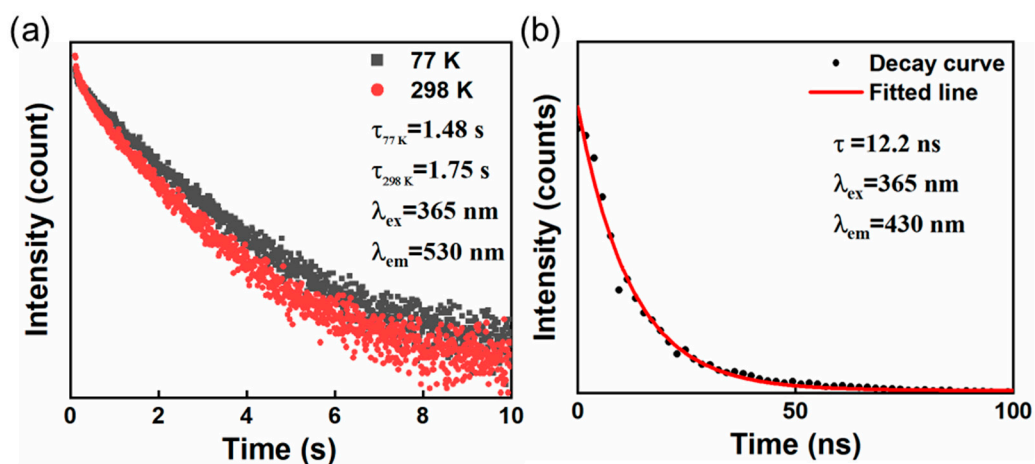


Figure S3 (a) Room temperature phosphorescence decay curves of CD@BA bulk at 77k and 298k respectively. ($\lambda_{\text{ex}} = 365\text{ nm}$ and $\lambda_{\text{em}} = 530\text{ nm}$); (b) FL decay curve of CD@BA bulk.

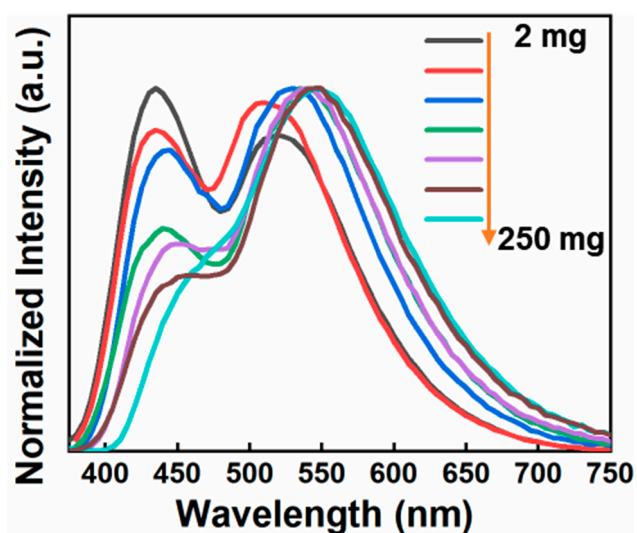


Figure S4 The normalized PL emission spectra of CD@BA bulk with different CDs concentrations under 365 nm lamp; from top to bottom: 2, 13, 50, 100, 150, 200 and 250 mg.

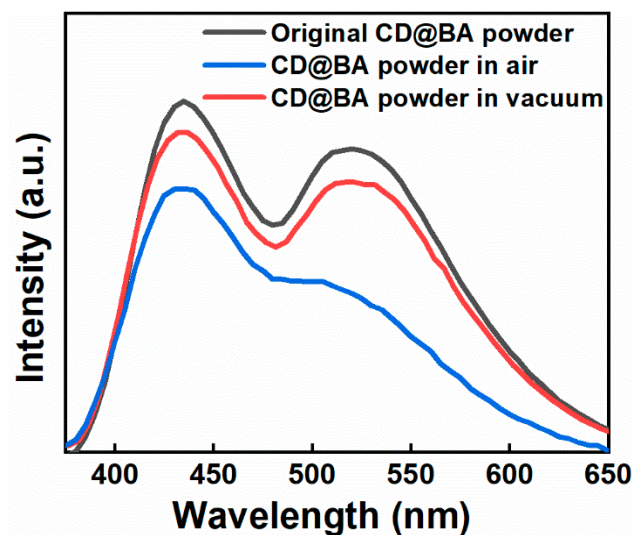


Figure S5 PL emission spectra of CD@BA powder stored in air and vacuum environment, respectively.

Table S1 emission spectral data of CD@BA with different CDs concentration

Serial number	CDs concentration (mg)	Fluorescence peak position (nm)	Phosphorescence peak position (nm)
1	2	428	520
2	13	430	520
3	50	440	530
4	100	440	535
5	150	450	540
6	200	450	545
7	250	450	545