

Supporting Information

N-Doped carbon dots from phenol derivatives for excellent colour rendering WLEDs

Qian Liu ^a, Danting Li ^a, Zhifeng Zhu ^a, Shimeng Yu ^a, Yan Zhang ^a, Dabin Yu ^{b,*}, and Yang Jiang ^{a,*}

^a School of Materials Science and Engineering, Hefei University of Technology, Hefei 230009, P. R. China; cathyliuq@163.com(Q.L.); wlkd1106t@163.com(D.L.); zhuzhifeng@hfut.edu.cn(Z.Z.); yushimenglxl@163.com (S.Y.); yanzi813@163.com (Y.Z.)

^b State Key Laboratory of Pulsed Power Laser Technology, National University of Defense Technology, Hefei 230037, P. R. China;

* Corresponding authors: apjiang@hfut.edu.cn. (Y. J.), dbyu@ustc.edu(D. Y.).

Figures

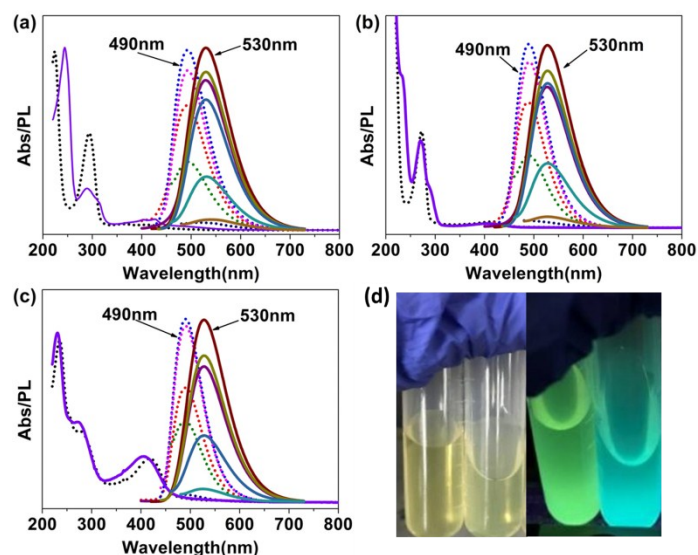


Fig. S1 Absorption and photoluminescence emission spectra of H-CDs(a), P-CDs(b) and R-CDs(c) in solvent of water(solid line) and ethanol(dash line) under excitation light of different wavelengths (the inset legends); True color of CDs in daylight and under UV light(365nm)

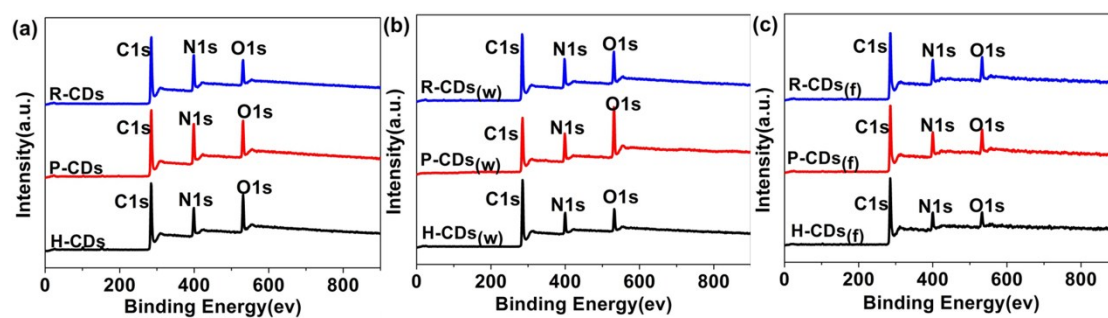


Fig. S2 XPS spectra of the raw CDs(a), W-CDs(b) and F-CDs(c)

Tables

Table S1 Percentages of N atoms in CDs roughly estimated by the results of XPS

	H-CDs	P-CDs	R-CDs
Raw CDs	15.45%	21.4%	22.6%
W-CDs	12.8%	16.4%	16.9%
F-CDs	11.4%	15.3%	15.8%