

Supporting information

Understanding of Nitrogen-Doped Carbon Nanoparticles Based Solid Phosphors for White Light Emitting Diodes

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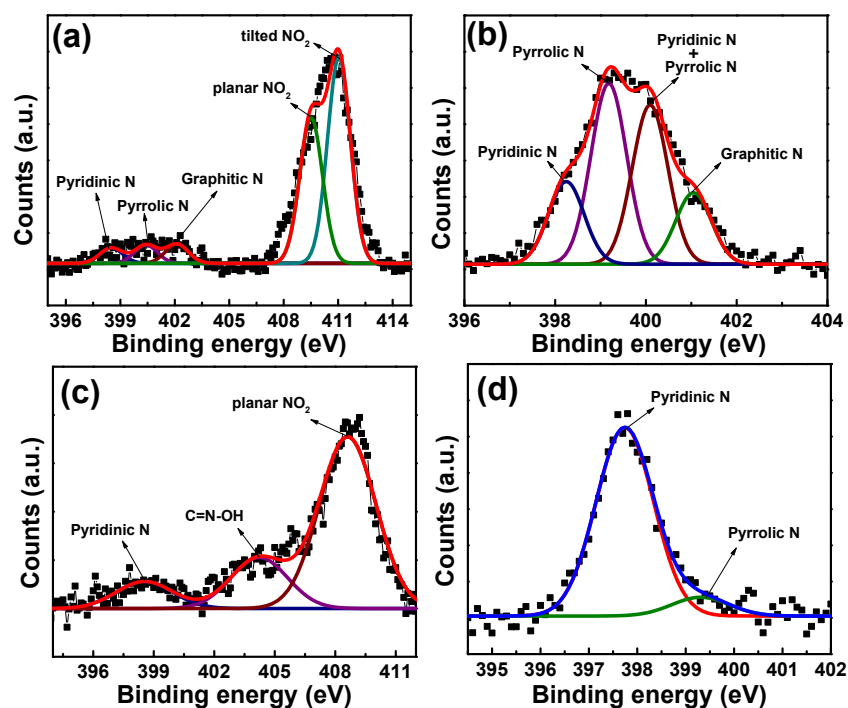


Fig. S1. (a-d) N 1s spectra of D3, D6, D9 and D12.

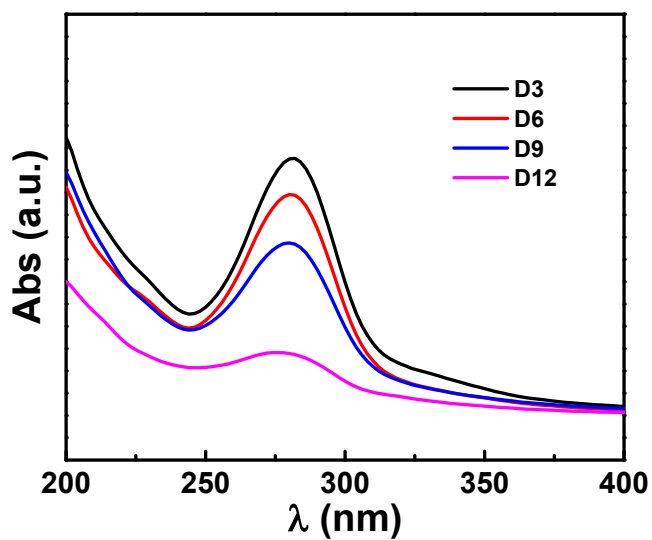


Fig S2. UV-Visible spectra of N-CNPs (D3-D12) with same dilution.

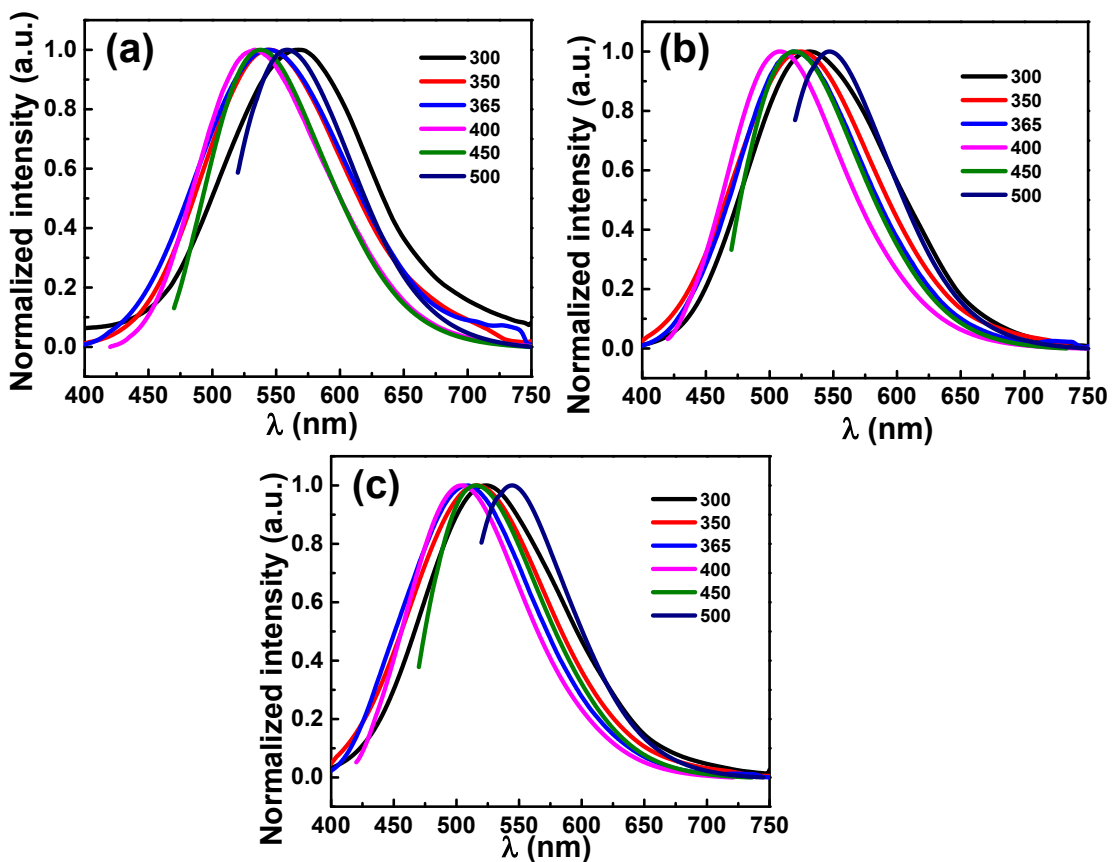


Fig S3. (a-c) Excitation-dependent normalized PL spectra of as-prepared D3, D6 and D9.

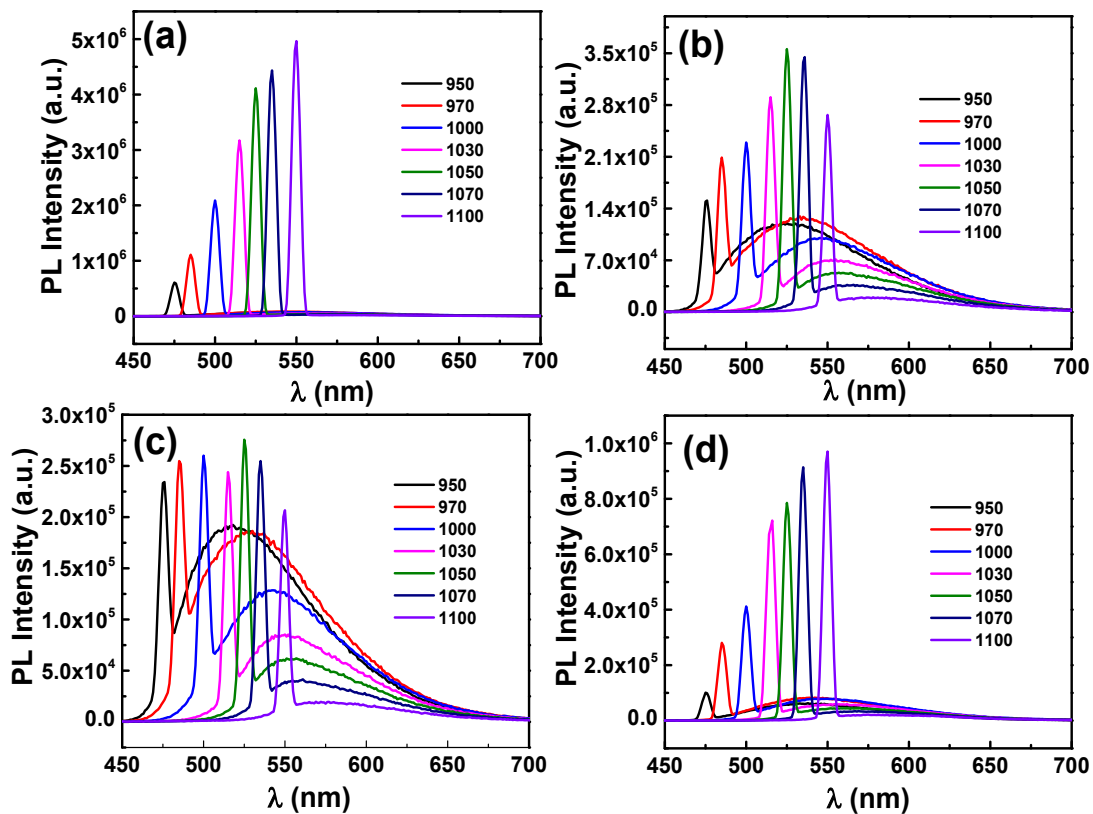


Fig S4. (a-d) Upconversion photoluminescence of D3-D12. Sharp peaks due to excitation as evident from the table S1.

Table S1. Excitation wavelength and the position of the sharp peak for upconversion.

S. No	Excitation wavelength (nm)	Sharp peak position wavelength (nm)
1	950	475
2	970	485
3	1000	500
4	1030	515
5	1050	525
6	1070	535
7	1100	550