Supporting Information

Figure S1.

Fluorescence quenching of "blue" C-dots with iodine ion displayed as Stern-Volmer plots. Measurements were carried out at excitation 350 nm and emission 445 nm.



Figure S2. Fluorescence quenching of "green" C-dots with iodine ion displayed as Stern-Volmer plots. Measurements were carried out at excitation 420 nm and emission 525 nm.



Figure S3. Fluorescence decays of "blue" C-dots at different emission wavelengths and their analysis. Excitations at 330 and 380 nm.

$$\lambda_{ex}$$
= 330 nm



		λ_{reg} =400 nm	λ_{reg} =450 nm	λ_{reg} =500 nm
τ ₁		0,673	0,928	0,973
	DEG	0,703	0,713	0,830
β		0,513	0,542	0,522
	DEG	0,579	0,516	0,502

		λ_{reg} =410 nm	λ_{reg} =450 nm	λ_{reg} =500 nm	λ_{reg} =550 nm	λ_{reg} =600 nm
τ ₁		1,196	1,261	1,055	0,591	0,304
	DEG	0,889	1,139	0,989	0,761	0,457
β		0,609	0,597	0,537	0,466	0,413
	DEG	0,560	0,581	0,526	0,488	0,440

λ_{exc} =380 nm

Figure S4. Fluorescence decays of "green" C-dots at different emission wavelengths and their analysis. Excitations at 380 nm and 440 nm.



 λ_{ex} = 380 nm

λ_{exc} =380 nm

		λ_{reg} =450 nm	λ_{reg} =500 nm	λ_{reg} =550 nm	λ_{reg} =600 nm	λ_{reg} =650 nm
τ ₁		0,014	0,049	0,090	0,078	0,048
	DEG	0,077	0,113	0,186	0,184	0,111
β		0,299	0,347	0,390	0,391	0,371
	DEG	0,367	0,382	0,421	0,430	0,402

 λ_{exc} =440 nm

		λ_{reg} =470 nm	λ_{reg} =500 nm	λ_{reg} =540 nm	λ_{reg} =600 nm	λ _{reg} =650 nm
τ ₁		0,065	0,089	0,066	0,055	0,041
	DEG	0,096	0,155	0,096	0,182	0,124
β		0,361	0,381	0,371	0,371	0,364
	DEG	0,379	0,409	0,380	0,436	0,415

Figure S5. Anisotropy decays of "blue" carbon dots and their analysis. Excitation 330 nm.



	Ro		0.131	0.120	0.099
		DEG	0.155	0.150	0.135
	φ		0.481	0.510	0.618
		DEG	1.029	1.389	1.601
	<r></r>		0.026	0.021	0.017
		DEG	0.050	0.050	0.038

Figure S6. Anisotropy decays of "blue" carbon dots and their analysis. Excitation 380 nm.



		λ_{reg} =410 nm	λ _{reg} =450 nm	λ _{reg} =500 nm	λ _{reg} =550 nm	λ _{reg} =600 nm
Ro		0.187	0.224	0.206	0.162	0.145
	DEG	0.272	0.252	0.244	0.186	0.157
		0.358	0.388	0.404	0.432	0.457
ψ	DEG	1.069	1.287	1.520	1.646	1.760
<r></r>		0.027	0.031	0.030	0.027	0.027
	DEG	0.082	0.076	0.076	0.063	0.061

Figure S7. Anisotropy decays of "green" carbon dots and their analysis. Excitation at 380 and 440 nm.



		λ _{reg} =450 nm	λ _{reg} =500 nm	λ _{reg} =550 nm	λ _{reg} =600 nm	λ _{reg} =650 nm
		0.141	0.170	0.150	0.131	0.125
г ₀	DEG	-	0.203	0.163	0.127	0.099
(0)		0.831	0.788	0.806	0.771	1.032
Ψ	DEG	-	2.481	2.635	2.712	2.682
<r></r>		0.087	0.087	0.073	0.063	0.067
	DEG	-	0.125	0.103	0.083	0.067



		λ _{reg} =500 nm	λ _{reg} =540 nm	λ _{reg} =600 nm	λ _{reg} =650 nm
Ro		0.245	0.227	0.176	0.138
	DEG	0.204	0.177	0.145	0.109
φ		1.027	1.163	1.057	1.051
	DEG	2.864	2.951	2.830	2.662
<r></r>		0.123	0.122	0.097	0.081
	DEG	0.137	0.118	0.098	0.076

 λ_{ex} = 440 nm